

Certification Date: 30 Dec 2021 Expiration Date: 30 Dec 2028

Certificate of Inspection

Senice Catt Ston BAO Number Official Number Vessel Name Tank Barge KIRBY 28078 1183299 Halling Port Harsenower Propulsion Had Material WILMINGTON, DE Steel UNITED STATES Place Park DWT **Delivery Date** Keel Laid Data Gross Torra Net Tons Length R-200.0 ASHLAND CITY, TN R-1637 R-1632 15Jun2008 27Jul2008 ы UNITED STATES Operato Owner KIRBY INLAND MARINE LP KIRBY INLAND MARINE LP 18350 Market St 55 WAUGH DRIVE, SUITE 1000 Channelview, TX 77530 HOUSTON, TX 77807 UNITED STATES UNITED STATES This vessel must be manned with the following licensed and unlicensed Personnel. Included in which there must be 0 Certified Lifeboatmen, 0 Certified Tankermen, 0 HSC Type Rating, and 0 GMDSS Operators. 0 Chief Engineers O Licensed Mates 0 Masters O First Assistant Engineers O Chief Mates 0 First Class Pilots **0 Second Assistant Engineers** O Radio Officers 0 Second Mates O Third Assistant Engineers O Third Mates 0 Abia Seamen O Licensed Engineers 0 Master First Class Pilot O Ordinary Seamen 0 Qualified Member Engineer 0 Deckhands 0 Mate First Class Pilots In addition, this vessel may carry 0 Passengers, 0 Other Persons in crew, 0 Persons in addition to crew, and no Others. Total Persons allowed: 0 Route Permitted And Conditions Of Operation: -Lakes, Bays, and Sounds-THIS TANK BARGE IS PARTICIPATING IN THE EIGHTH-WINTH COAST GUARD DISTRICT'S TANK BARGE STREAMLINED INSPECTION INSPECTION ACTIVITIES ABOARD THIS BARGE SHALL BE CONDUCTED IN ACCORDANCE WITH ITS TANK BARGE PROGRAM (TBSIP). ACTION PLAN (TAP). INSPECTION ISSUES CONCERNING THIS BARGE SHOULD BE DIRECTED TO THE OCHI HOUSTON-GALVESTON. THIS VESSEL HAS BEEN GRANTED A FRESH WATER SERVICE EXAMINATION INTERVAL IN ACCORDANCE WITH 46 CFR TABLE 31.10-21(b); IF THIS VESSEL IS OPERATED IN SALT WATER MORE THAN SIX (6) MONTHS IN ANY TWELVE (12) MONTH PERIOD, THE VESSEL MUST BE INSPECTED USING SALT WATER INTERVALS PER 46 CFR TABLE 31.10-21(a) AND THE COGNIZANT OCHI MOTIFIED IN WRITING AS SOON AS THIS CHANGE IN STATUS OCCURS. ***SEE NEXT PAGE FOR ADDITIONAL CERTIFICATE INFORMATION*** With this inspection for Certification having been completed at Houma, LA, UNITED STATES, the Officer in Charge, Marian Inspection, Houma, Louisiana certified the vessel, in all respects, is in conformity with the applicable vessel inspection laws and the rules and regulations prescribed thereunder, Annual/Periodic/Re-Inspection This certific CHEODR USCG, By Direction Zone A/P/R Date Signature -10-22 Of NO Chie Officer in Charge, Marine Inspection Houms, Louisians Inspection Zone



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Certificate of Inspection

Vessel Name: KIRBY 28078

---Hull Exams---

Exam Type

Next Exam

Last Exam

Prior Exam

DryDock

31Oct2026

05Oct2016

27Jul2006

Internal Structure

31Dec2026

Δ

30Dec2021

05Oct2016

--- Liquid/Gas/Solid Cargo Authority/Conditions ---

Authorization:

FLAMMABLE, COMBUSTIBLE AND SPECIFIED HAZARDOUS CARGOES

Total Capacity

Units

Highest Grade Type Part151 Regulated Part153 Regulated

Part154 Regulated

28500

Barrels

Yes

No

No

Hazardous Bulk Solids Authority

Not Authorized

Loading Constraints - Structural

Tank Number	Max Cargo Weight per Tank (short tons)	Maximum Density (lbs/gal)
#1 PORT	834	13.58
#1 STBD	834	13.58
#2 PORT	839	13.58
#2 STBD	839	13.58
#3 PORT	773	13.58
#3 STBD	773	13.58

SLOP TANK

Loading Constraints - Stability

Hull Type	Maximum Load (short tons)	Maximum Draft (ft/in)	Max Density (lbs/gal)	Route Description
Ш	3786	10ft 0in	13.58	Rivers
П	3786	10ft 0in	13.58	Lakes, Bays and Sounds
Ш	4662	11ft 9in	13.58	Rivers
Ш	4662	11ft 9in	13.58	Lakes, Bays and Sounds

Conditions Of Carriage

ONLY THOSE HAZARDOUS CARGOES NAMED IN THE VESSEL'S CARGO AUTHORITY ATTACHMENT, SERIAL NO. C2-0601234 DATED 08 JUN 2006, MAY BE CARRIED AND THEN ONLY IN THE TANKS INDICATED. SUBJECT TO THE LOADING CONSTRAINTS OF THE VESSEL'S CURRENT STABILITY LETTER.

PER 46 CFR 150.130, THE PERSON IN CHARGE OF THE BARGE IS RESPONSIBLE FOR ENSURING THAT THE COMPATIBILITY REQUIREMENTS OF 46 CFR 150 ARE MET. CARGOES MUST BE CHECKED FOR COMPATIBILITY USING THE FIGURES, TABLES, AND APPENDICES OF 46 CFR 150 IN CONJUNCTION WITH THE REACTIVE GROUP NUMBER FROM THE "COMPATIBILITY GROUP NO." COLUMN LISTED IN THE VESSEL'S CAA.

46 CFR 151.45-2(b) CONTAINS RESTRICTION ON OPERATING BOX AND SQUARE END BARGES AS THE LEAD BARGES OF TOWS.

PER 46 CFR 151.10-15(c)(2) THE MAX TANK WEIGHTS LISTED BELOW REFLECT UNIFORM (WITHIN 5%) LOADING AT THE DEEPEST DRAFT ALLOWED. WHEN CARRYING SUBCHAPER "O" CARGOES AT SHALLOWER DRAFTS,



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THE BARGE(S) SHOULD ALWAYS BE LOADED UNIFORMLY.

WHEN THE VESSEL IS CARRYING CARGOES CONTAINING GREATER THAN 0.5% BENZENE, THE PERSON IN CHARGE IS RESPONSIBLE FOR ENSURING THE PROVISIONS OF 46 U.S. CODE OF FEDERAL REGUALTIONS PART 197, SUBPART C ARE APPLIED.

THE MAXIMUM DESIGN DENSITY OF CARGO WHICH MAY BE FILLED TO THE TANK TOP IS 8.74 LBS/GAL. CARGOES WITH HIGHER DENSITIES, UP TO 13.6 LBS/GAL, MAY BE CARRIED AS SLACK LOADS, BUT SHALL NOT EXCEED THE TANK WEIGHT LIMITS AS LISTED BELOW.

IN ACCORDANCE WITH 46 CFR PART 39, EXCLUDING PART 39.4000, THIS VESSEL'S VAPOR CONTROL SYSTEM HAS BEEN INSPECTED TO THE PLANS APPROVED BY MARINE SAFETY CENTER LETTERS SERIAL NO. C2-0601234 DATED 08 JUN 2006, AND FOUND ACCEPTABLE FOR COLLECTION OF BULK LIQUID CARGO VAPORS ANNOTATED WITH "YES" IN THE CAA'S VCS COLUMN.

IN ACCORDANCE WITH 46 CFR PART 39.1017 AND 39.5000 THIS VESSEL'S VCS HAS BEEN EVALUATED AND APPROVED FOR MULTI-BREASTED TANDEM LOADING WITH OTHER VESSELS SPECIFICALLY BY MARINE SAFETY CENTER LETTER SERIAL NO. C2-090031 DATED 08 JAN 2009.

Next

External Exam

Last

Next

Previous

--- Inspection Status ---

Fuel Tanks

	Internal Exa	Internal Examinations									
Tank ID	Previous	Last	Next								
STBD AFT DECK	-	27Jul2006	_								
+0 +											

Internal Exam

Previous

Cargo Tanks

Tank Id

#1 PORT	27Jul2006	05Oct2016	31Oct2026	-	-
#1 STBD	27Jul2006	05Oct2016	31Oct2026	-	-
#2 PORT	27Jul2006	05Oct2016	31Oct2026	-	-
#2 STBD	27Jul2006	05Oct2016	31Oct2026	-	-
#3 PORT	27Jul2006	05Oct2016	31Oct2026	=	-
#3 STBD	27Jul2006	05Oct2016	31Oct2026	=	-
SLOP TANK	~	-	-	-	=
			Hydro Test		
Tank Id	Safety Valves		Previous	Last	Next
Tank ld #1 PORT	Safety Valves		Previous -	Last 27Jul2006	Next -
	Safety Valves -		Previous -		Next - -
#1 PORT	Safety Valves		Previous	27Jul2006	Next - -
#1 PORT #1 STBD	Safety Valves		Previous	27Jul2006 27Jul2006	Next
#1 PORT #1 STBD #2 PORT	Safety Valves		Previous	27Jul2006 27Jul2006 27Jul2006	- - -
#1 PORT #1 STBD #2 PORT #2 STBD	Safety Valves		Previous	27Jul2006 27Jul2006 27Jul2006 27Jul2006	- - -
#1 PORT #1 STBD #2 PORT #2 STBD #3 PORT	Safety Valves		Previous	27Jul2006 27Jul2006 27Jul2006 27Jul2006 27Jul2006	- - -

Last

--- Conditional Portable Fire Extinguisher Requirements---

Required Only During Transfer of Cargo or Operation of Barge Machinery



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--- Fire Fighting Equipment ---

Fire Extinguishers - Hand portable and semi-portable

Quantity

Class Type

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40-B

\*\*\*END\*\*\*

Dept. of Home Sec., USCG, CG-841 (Rev 4-2000)(v2)

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OMB No. 2115-0517



Serial #: C2-0601234 Generated: 08-Jun-06



## Certificate of Inspection

Cargo Authority Attachment

Vessel Name: KIRBY 28078 Official #: 1183299

Shipyard: Trinity, Ashland City

Hull #: 4519

.50-81(a), .50-

46 CFR 151 Tank Group Characteristics Environmental Cargo Identification Tanks Special Requirements Protection Tanks in Group Provided Тур Construction Haz 55-1(b), (c), (e), (f), (h), (j), 56-1(a), (b), (c), (d), (e), (f), (g),

Notes: 1. Under Environmental Control, Tanks, NR means that the tank group is suitable only for those cargoes which require no environmental control in the cargo tanks.

2. Under Environmental Control, Handling Space, NR means that the tank group is suitable only for those cargoes which require no environmental control in the cargo handling space. NA means that the vessel does not have a cargo control space, and this requirement is not applied.

3. Under Electrical Hazard Class, NA means that the tank group is suitable only for those cargoes which have no electrical hazard class requirement. NR means that the vessel has no electrical

List of Authorized Cargoes

| Cargo Identification                                                              |        |                    |                |       |              |               | Conditions of Carriage |                 |                                                                         |  |  |  |
|-----------------------------------------------------------------------------------|--------|--------------------|----------------|-------|--------------|---------------|------------------------|-----------------|-------------------------------------------------------------------------|--|--|--|
|                                                                                   |        |                    |                |       |              |               | Vapor R                | ecovery         |                                                                         |  |  |  |
| Name                                                                              | Chem   | Compat<br>Group No | Sub<br>Chapter | Grade | Hull<br>Type | Tank<br>Group | App'd<br>(Y ar N)      | VCS<br>Category | Special Requirements in 46 CFR 15<br>General and Mat'ls of Construction |  |  |  |
| Authorized Subchapter O Cargoes                                                   |        |                    |                |       |              |               |                        |                 |                                                                         |  |  |  |
| Acetonitrile                                                                      | ATN    | 37                 | 0              | С     | H            | Α             | Yes                    | 3               | No                                                                      |  |  |  |
| Acrylonitrile                                                                     | ACN    | 15 <sup>2</sup>    | 0              | С     | П            | Α             | Yes                    | 4               | .50-70(a), .55-1(e)                                                     |  |  |  |
| Adiponitrile                                                                      | ADN    | 37                 | 0              | E     | 11           | Α             | Yes                    | 1               | No                                                                      |  |  |  |
| Alkyl(C7-C9) nitrates                                                             | AKN    | 34 2               | 0              | NA    | 111          | Α             | No                     | N/A             | .50-81, .50-86                                                          |  |  |  |
| Aminoethylethanolamine                                                            | AEE    | 8                  | 0              | E     | III          | Α             | Yes                    | 1               | .55-1(b)                                                                |  |  |  |
| Ammonium bisulfite solution (70% or less)                                         | ABX    | 43 2               | 0              | NA    | 111          | Α             | No                     | N/A             | 50-73, .56-1(a), (b), (c)                                               |  |  |  |
| Ammonium hydroxide (28% or less NH3)                                              | AMH    | 6                  | 0              | NA    | Ш            | Α             | No                     | N/A             | .58-1(a), (b), (c), (f), (g)                                            |  |  |  |
| Anthracene oil (Coal tar fraction)                                                | AHO    | 33                 | 0              | NA    | 11           | Α             | No                     | N/A             | No                                                                      |  |  |  |
| Benzene                                                                           | BNZ    | 32                 | 0              | С     | 111          | Α             | Yes                    | 1               | .50-60                                                                  |  |  |  |
| Benzene or hydrocarbon mixtures (having 10% Benzene or more)                      | ВНВ    | 32 <sup>2</sup>    | 0              | С     | III          | Α             | Yes                    | 1               | .50-60                                                                  |  |  |  |
| Benzene or hydrocarbon mixtures (containing Acetylene and 10%<br>Benzene or more) | ВНА    | 32 <sup>2</sup>    | 0              | С     | 111          | Α             | Yes                    | 1               | .50-60, .56-1(b), (d), (f), (g)                                         |  |  |  |
| Benzene, Toluene, Xylene mixtures (10% Benzene or more)                           | втх    | 32                 | 0              | B/C   | [!]          | Α             | Yes                    | 1               | .50-60                                                                  |  |  |  |
| Butyl acrylate (all isomers)                                                      | BAR    | 14                 | 0              | D     | 111          | Α             | Yes                    | 2               | .50-70(a), .50-81(a), (b)                                               |  |  |  |
| Butyl methacrylate                                                                | BMH    | 14                 | 0              | D     | 111          | Α             | Yes                    | 2               | .50-70(a), .50-81(x), (b)                                               |  |  |  |
| Butyraldehyde (ail isomers)                                                       | BAE    | 19                 | 0              | С     | 111          | A             | Yes                    | 1               | .55-1(h)                                                                |  |  |  |
| Camphor oil (light)                                                               | CPC    | 18                 | 0              | D     | 11           | A             | No                     | N/A             | No                                                                      |  |  |  |
| Carbon tetrachloride                                                              | CBT    | 36                 | 0              | NA    | 111          | Α             | No                     | N/A             | No                                                                      |  |  |  |
| Caustic potash solution                                                           | CPS    | 5 <sup>2</sup>     | 0              | NA    | 111          | Α             | No                     | N/A             | .50-73, .55-1(j)                                                        |  |  |  |
| Caustic soda solution                                                             | CSS    | 5 <sup>2</sup>     | . 0            | NA    | H            | A             | No                     | N/A             | .50-73, .55-1(j)                                                        |  |  |  |
| Chemical Oil (refined, containing phenolics)                                      | COL    | 21                 | 0              | Е     | 11           | Α             | No                     | N/A             | .50-73                                                                  |  |  |  |
| Chlorobenzene                                                                     | CRB    | 36                 | . 0            | D     | 111          | Α             | Yes                    | 1               | No                                                                      |  |  |  |
| Chloroform                                                                        | CRF    | 36                 | 0              | E     | 111          | A             | Yes                    | . 3             | No                                                                      |  |  |  |
| Coal tar naphtha solvent                                                          | NCT    | 33                 | 0              | D     | 111          | Α             | Yes                    | 1               | .50-73                                                                  |  |  |  |
| Creosote                                                                          | CCV    | V 21 <sup>2</sup>  | 0              | E     | Ш            | Α             | Yes                    | 1               | No                                                                      |  |  |  |
| Cresols (all isomers)                                                             | CRS    | 21                 | 0              | E     | 111          | Α             | Yes                    | 1               | No                                                                      |  |  |  |
| Cresylate spent caustic                                                           | CSC    | 5                  | 0              | NA    | Ш            | A             | No                     | N/A             | .50-73; .55-1(b)                                                        |  |  |  |
| Cresylic acid tar                                                                 | CRX    | (                  | 0              | E     | ill          | Α             | Yes                    | 1               | .55-1(f)                                                                |  |  |  |
| Crotonaldehyde                                                                    | CTA    | 19 2               | 0              | С     | 11           | Α             | Yes                    | 4               | .55-1(h)                                                                |  |  |  |
| Crude hydrocarbon feedstock (containing Butyraldehydes and Ethylpropy acrolein)   | ył CHO | }                  | 0              | С     | III          | Α             | No                     | N/A             | No                                                                      |  |  |  |
| Cyclohexanone                                                                     | CCF    | 1 18               | 0              | D     | 111          | Α             | Yes                    | 1               | .56-1(a), (b)                                                           |  |  |  |
| Cyclohexanone, Cyclohexanol mixture                                               | CYX    | 18 2               | 0              | E     | 111          | Α             | Yes                    | 1               | .56-1 (b)                                                               |  |  |  |
| Cyclohexylamine                                                                   | CHA    | 7                  | 0              | D     | 111          | Α             | Yes                    | 1               | .56-1(a), (b), (c), (g)                                                 |  |  |  |
| Cyclopentadiene, Styrene, Benzene mixture                                         | CSE    | 30                 | 0              | D     | 111          | Α             | Yes                    | 1               | .50-60, .56-1(b)                                                        |  |  |  |
| iso-Decyl acrylate                                                                | IAI    | 14                 | 0              | E     | [[]          | Α             | Yes                    | 2               | .50-70(a), .50-81(a), (b), .55-1(c)                                     |  |  |  |

This document is only valid when attached to, and referenced by a current, valid Certificate of Inspection. \*\*\*

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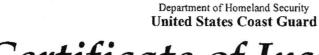
# Certificate of Inspection Cargo Authority Attachment

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Shipyard: Trinity, Ashland City

| Cargo Identification                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |              |                    |                |        |              | Co             | nditio            | ns of Carriage  |                                                                          |  |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--------------------|----------------|--------|--------------|----------------|-------------------|-----------------|--------------------------------------------------------------------------|--|--|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | į            |                    |                |        |              | Vapor Recovery |                   |                 |                                                                          |  |  |
| Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Chem<br>Code | Compat<br>Group No | Sub<br>Chapter | Grade  | Hull<br>Type | Tank<br>Group  | App'd<br>(Y or N) | VCS<br>Category | Special Requirements in 46 CFR 151<br>General and Mat'ls of Construction |  |  |
| Dichlorobenzene (all isomers)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | DBX          | 36                 | 0              | Ε      | 111          | Α              | Yes               | 3               | .56-1(a), (b)                                                            |  |  |
| 1,1-Dichloroethane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | DCH          | 36                 | 0              | С      | 11(          | Α              | Yes               | 1               | No                                                                       |  |  |
| 2,2'-Dichloroethyl ether                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | DEE          | 41                 | 0              | D      | li           | Α              | Yes               | 1               | .55-1(f)                                                                 |  |  |
| Dichloromethane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | DCM          | 1 36               | 0              | NA     | III          | Α              | No                | N/A             | No                                                                       |  |  |
| 2,4-Dichlorophenoxyacetic acid, diethanolamine salt solution                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | DDE          | 43                 | 0              | E      | 111          | Α              | No                | N/A             | .56-1(a), (b), (c), (g)                                                  |  |  |
| 2.4-Dichlorophenoxyacetic acid, dimethylamine salt solution                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | DAD          | 0 1,               | 2 0            | Α      | Ш            | Α              | No                | N/A             | .56-1(a), (b), (c), (g)                                                  |  |  |
| 2,4-Dichlorophenoxyacetic acid, trisopropanolamine salt solution                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | DTI          | 43 2               | 0              | E      | III          | Α              | No                | N/A             | .56-1(a), (b), (c), (g)                                                  |  |  |
| 1,1-Dichloropropane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | DPB          | 36                 | 0              | С      | 111          | Α              | Yes               | 3               | No                                                                       |  |  |
| 1,2-Dichloropropane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | DPP          | 36                 | 0              | С      | Ш            | Α              | Yes               | 3               | No                                                                       |  |  |
| 1,3-Dichloropropane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | DPC          | 36                 | 0              | С      | III          | Α              | Yes               | 3               | No                                                                       |  |  |
| 1,3-Dichloropropene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | DPU          | 15                 | 0              | D      | II           | Α              | Yes               | 4               | No                                                                       |  |  |
| Dichloropropene, Dichloropropane mixtures                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | DMX          | 15                 | 0              | Ç      | II           | Α              | Yes               | 1               | No                                                                       |  |  |
| Diethanolamine                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | DEA          | 8                  | 0              | E      | III          | A              | Yes               | 1               | .55-1(c)                                                                 |  |  |
| Diethylamine                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | DEN          |                    | 0              | C      | III          | A              | Yes               | 3               | .55-1(c)                                                                 |  |  |
| Diethylenetriamine                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | DET          | 7 2                | 0              | E      |              | A              | Yes               | 1               | .55-1(c)                                                                 |  |  |
| Diisobutylamine                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | DBU          | 7                  | 0              | D      | III          | A              | Yes               | 3               | .55-1(c)                                                                 |  |  |
| Diisopropanolamine                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | DIP          | 8                  | 0              | E      | III          | A              | Yes               | 1               | .55-1(c)                                                                 |  |  |
| Diisopropylamine                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | DIA          | 7                  | 0              | C      | - 11         | Α              | Yes               | 3               | .55-1(c)                                                                 |  |  |
| N,N-Dimethylacetamide                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | DAC          |                    | 0              | E      | III          | Α              | Yes               | 3               | 56-1(b)                                                                  |  |  |
| Dimethylethanolamine                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | DMB          |                    | Ö              | D      | — III        | A              | Yes               | 1               | 56-1(b), (c)                                                             |  |  |
| Dimethylformamide                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | DMF          |                    | 0              |        | <u>'''</u>   | A              | Yes               | <u>i</u>        | .55-1(e)                                                                 |  |  |
| DI-n-propylamine                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | DNA          |                    | 0              | C      | <br>II       | —- <del></del> | Yes               | 3               | .55-1(c)                                                                 |  |  |
| Dodecyldimethylamine, Tetradecyldimethylamine mixture                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | DOT          |                    |                | ΞΕ     | <u>''</u> _  |                | No                | N/A             | .56-1(b)                                                                 |  |  |
| Dodecyldinientylannine, retradecyldinientylannine mixture  Dodecyl diphenyl ether disulfonate solution                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | DOS          |                    | 0              | #      | <u>!!!</u>   | <u>A</u>       | No                | N/A             | No                                                                       |  |  |
| Ethanolamine                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | MEA          |                    | 0              | Ε      | iii          | Α              | Yes               | 1               | .55-1(c)                                                                 |  |  |
| A STATE OF THE STA | EAC          |                    | 0              | C      |              | A A            | Yes               | 2               | .50-70(a), 50-81(a), (b)                                                 |  |  |
| Ethyl acrylate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | EAN          |                    | 0              | A      |              | A              | No                | N/A             | .55-1(b)                                                                 |  |  |
| Ethylamine solution (72% or less)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |              |                    | 0              | ^      |              |                |                   | 3               | .55-1(b)                                                                 |  |  |
| N-Ethylbutylamine                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | EBA          | 7                  |                |        | - 111        | A              | Yes               |                 | .55-1(b)                                                                 |  |  |
| N-Ethylcyclohexylamine                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ECC          |                    | 0              | D<br>E |              | A              | Yes               | 1               | No                                                                       |  |  |
| Ethylene cyanohydrin                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | ETC          |                    | 0              |        | 111          | A              | Yes               | 1               | .55-1(c)                                                                 |  |  |
| Ethylenediamine                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | EDA          |                    | 0              | D      | []]          | A              | Yes               | . 1             |                                                                          |  |  |
| Ethylene dichloride                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | EDC          |                    | 0              |        | 111          | A              | Yes               | 1               | No No                                                                    |  |  |
| Ethylene glycol hexyl ether                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | EGH          |                    | 0              | E      | III          | A              | No                | N/A             | No                                                                       |  |  |
| Ethylene glycol monoalkyl ethers                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | EGC          |                    | 0              | D/E    | 111          | Α              | Yes               | 11              |                                                                          |  |  |
| Ethylene glycol propyl ether                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | EGP          |                    | 0              | E      | 111          | Α              | Yes               | 1               | No                                                                       |  |  |
| 2-Ethylhexyl acrylate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | EAI          | 14                 | 0.             | E      | !!!          | Α              | Yes               | 2               | .50-70(a), .50-81(a), (b)                                                |  |  |
| Ethyl methacrylate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ETM          |                    | 0              | D/E    | 111          | Α              | Yes               | 2               | .50-70(a)                                                                |  |  |
| 2-Ethyl-3-propylacrolein                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | EPA          | 19 <sup>2</sup>    | 0              | E      | 111          | A              | Yes               | 1               | No SE (IL)                                                               |  |  |
| Formaldehyde solution (37% to 50%)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | FMS          |                    | 0              | D/E    | 111          | Α              | Yes               | 1               | .55-1(h)                                                                 |  |  |
| Furfural                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | FFA          | 19                 | 0              | E      |              | Α              | Yes               | 1               | .55-1(h)                                                                 |  |  |
| Glutaraldehyde solution (50% or less)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | GTA          |                    | 0              | NA     |              | Α              | No                | N/A             |                                                                          |  |  |
| Hexamethylenediamine solution                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | HMC          |                    | 0              | E      |              | A              | Yes               | 11              | .55-1(c)                                                                 |  |  |
| Hexamethyleneimine                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | HMI          | 7                  | 0              | С      |              | A              | Yes               | 1               | 56-1(b), (c)                                                             |  |  |
| Hydrocarbon 5-9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | HFN          |                    | 0              | С      | III          | A              | Yes               | 1               | .50-70(a), .50-81(a). (b)                                                |  |  |
| Isoprene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | IPR          | 30                 | 0              | Α      | Ш            | A              | No                | N/A             | .50-70(a), .50-81(a), (b)                                                |  |  |
| Isoprene, Pentadiene mixture                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | IPN          |                    | 0              | В      | Ш            | Α              | No                | N/A             | .50-70(a), .55-1(c)                                                      |  |  |
| Kraft pulping liquors (free alkali content 3% or more)(including: Black,<br>Green, or White liquor)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | KPL          | 5                  | 0              | NA     | Ш            | Α              | No                | N/A             | .50-73, ,58-1(a), (c), (g)                                               |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |              | 1 40 2             | 0              | -      | 111          |                | Van               | 1               | No                                                                       |  |  |
| Mesityl oxide                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | MSC          | ) 18 <sup>2</sup>  | - 0            | D<br>C | 111          | A              | Yes               |                 | .50-70(a), .50-81(a), (b)                                                |  |  |



Certificate of Inspection
Cargo Authority Attachment

Vessel Name: KIRBY 28078

Official #: 1183299

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Shipyard: Trinity, Ashland City

Serial #: C2-0601234

Generated: 08-Jun-06

Hull #: 4519

| Cargo Identification                                                                 | Cargo Identification |                    |                |       |              |                |                   | Conditions of Carriage |                                                                          |  |  |  |  |
|--------------------------------------------------------------------------------------|----------------------|--------------------|----------------|-------|--------------|----------------|-------------------|------------------------|--------------------------------------------------------------------------|--|--|--|--|
| Name                                                                                 | Chem                 | Compat<br>Group No | Sub<br>Chapter | Grade | Hull<br>Typa | Tank<br>Group  | App'd<br>(Y or N) | VCS<br>Category        | Special Requirements in 46 CFR 15'<br>General and Mat'ls of Construction |  |  |  |  |
|                                                                                      |                      |                    |                |       | .,,,,,,      |                | 1                 |                        |                                                                          |  |  |  |  |
| Methylcyclopentadiene dimer                                                          | MCK                  | 30                 | 0              | С     | Ш            | Α              | Yes               | 1                      | No                                                                       |  |  |  |  |
| Methyl diethanolamine                                                                | MDE                  | 8                  | 0              | Ε     | III          | Α              | Yes               | 1                      | .56-1(b), (c)                                                            |  |  |  |  |
| 2-Methyl-5-ethylpyridine                                                             | MEP                  | 9                  | 0              | E     | III          | A              | Yes               | 1                      | .55-1(e)                                                                 |  |  |  |  |
| Methyl methacrylate                                                                  | MMN                  | 1 14               | 0              | С     | HI           | А              | Yes               | 2                      | .50-70(a), .50-81(a), (b)                                                |  |  |  |  |
| 2-Methylpyridine                                                                     | MPR                  | 9                  | 0              | D     | 111          | A              | Yes               | 3                      | .55-1(c)                                                                 |  |  |  |  |
| alpha-Methylstyrene                                                                  | MSR                  | 30                 | 0              | D     | []]          | A              | Yes               | 2                      | .50-70(a), .50-81(a), (b)                                                |  |  |  |  |
| Morpholine                                                                           | MPL                  | 7 2                | 0              | D     | 111          | A              | Yes               | 1                      | .55-1(c)                                                                 |  |  |  |  |
| 1- or 2-Nitropropane                                                                 | NPM                  | 42                 | 0              | D     | Ш            | A              | Yes               | . 1                    | .50-81                                                                   |  |  |  |  |
| 1,3-Pentadiene                                                                       | PDE                  | 30                 | 0              | A     | III          | A              | No                | N/A                    | 50-70(a), 50-81                                                          |  |  |  |  |
| Perchloroethylene                                                                    | PER                  | 36                 | 0              | NA    | III          | Α              | No                | N/A                    | No                                                                       |  |  |  |  |
| Polyethylene polyamines                                                              | PEB                  | 7 2                | 0              | E     | 111          | A              | Yes               | 1                      | 55-1(e)                                                                  |  |  |  |  |
| iso-Propanolamine                                                                    | MPA                  |                    |                | Ē     | 111          | A              | Yes               | 1                      | .55-1(c)                                                                 |  |  |  |  |
| Propanolamine (iso-, n-)                                                             | PAX                  | 8                  | 0              | E     | 111          | A              | Yes               | 1                      | .56-1(b), (c)                                                            |  |  |  |  |
| so-Propylamine                                                                       | IPP                  | 7                  | 0              | A     | 11           | - <del>A</del> | Yes               | 5                      | .55-1(c)                                                                 |  |  |  |  |
| Pyridine                                                                             | PRD                  |                    | 0              | C     |              | A              | Yes               | 1                      | .55-1(e)                                                                 |  |  |  |  |
| Sodium acetate, Glycol, Water mixture (3% or more Sodium Hydroxide)                  | SAP                  |                    |                |       | 111          | A              | No                | N/A                    | 50-73, .55-1(j)                                                          |  |  |  |  |
| Sodium aluminate solution (45% or less)                                              | SAU                  | 5                  |                | NA    | !!!-<br> H   | Α              | No                | N/A                    | .50-73, .56-1(a), (b), (c)                                               |  |  |  |  |
| Sodium chlorate solution (50% or less)                                               | SDD                  |                    |                | NA    | 111          | A              | No                | N/A                    | 50-73                                                                    |  |  |  |  |
|                                                                                      | SHQ                  | *********          | 0              | NA NA | H            | A              | No                | N/A                    | .50-73, .56-1(a), (b)                                                    |  |  |  |  |
| Sodium hypochlorite solution (20% or less)                                           | SSH                  | 0 1,2              |                |       | 111          |                |                   | 1                      | .50-73, .55-1(b)                                                         |  |  |  |  |
| Sodium sulfide, hydrosulfide solution (H2S 15 ppm or less)                           |                      | 0 1,               |                | NA.   |              | <u>A</u>       | Yes               |                        | .50-73, .55-1(b)                                                         |  |  |  |  |
| Sodium sulfide, hydrosulfide solution (H2S greater than 15 ppm but less han 200 ppm) | SSI                  | 0                  | 2 . 0          | NA    | 111          | Α              | No                | N/A                    | ,3013, 301(0)                                                            |  |  |  |  |
| Sodium sulfide, hydrosulfide solution (H2S greater than 200 ppm)                     | SSJ                  | 0 1.               | 2 0            | NA    | 11           | Α              | No                | N/A                    | .50-73, .56-1(b)                                                         |  |  |  |  |
| Styrene (crude)                                                                      | STX                  |                    | 0              | D     | 111          | Α              | Yes               | 2                      | No                                                                       |  |  |  |  |
| Styrene monomer                                                                      | STY                  | 30                 | 0              | D     | 111          | Α              | Yes               | 2                      | .50-70(a), .50-81(a), (b)                                                |  |  |  |  |
| 1,1,2,2-Tetrachloroethane                                                            | TEC                  | 36                 | 0              | NA    | 111          | Α              | No                | N/A                    | No                                                                       |  |  |  |  |
| Tetraethylenepentamine                                                               | TTP                  | 7                  | 0              | Е     | 111          | Α              | Yes               | 1                      | .55-1(c)                                                                 |  |  |  |  |
| Tetrahydrofuran                                                                      | THF                  | 41                 | 0              | С     | Ш            | Α              | Yes               | 1                      | .50-70(b)                                                                |  |  |  |  |
| Toluenediamine                                                                       | TDA                  | 9                  | 0              | Е     | 11           | Α              | No                | N/A                    | .50-73, .56-1(e), (b), (c), (g)                                          |  |  |  |  |
| 1,2,4-Trichlorobenzene                                                               | TCB                  | 36                 | 0              | E     |              | Α              | Yes               | 1                      | No                                                                       |  |  |  |  |
| 1,1,2-Trichloroethane                                                                | TCM                  | 36                 | 0              | NA    | III          | Α              | Yes               | 1                      | .50-73, .56-1(a)                                                         |  |  |  |  |
| Trichloroethylene                                                                    | TCL                  | 36 <sup>2</sup>    | 0              | NA    | HI           | Α              | Yes               | 1                      | No                                                                       |  |  |  |  |
| 1,2,3-Trichloropropane                                                               | TCN                  | 36                 | 0              | E     | II           | Α              | Yes               | 3                      | .50-73, .56-1(a)                                                         |  |  |  |  |
| Triethanolamine                                                                      | TEA                  | 8 2                | 0              | E     | III          | Α              | Yes               | 1                      | .55-1(b)                                                                 |  |  |  |  |
| Triethylamine                                                                        | TEN                  | 7                  | 0              | С     | II           | A              | Yes               | 3                      | .55-1(e)                                                                 |  |  |  |  |
| Triethylenetetramine                                                                 | TET                  | 7 2                | 0              | E     | III          | Α              | Yes               | 1                      | .55-1(b)                                                                 |  |  |  |  |
| Triphenylborane (10% or less), caustic soda solution                                 | TPB                  | 5                  | 0              | NA    | III          | Α              | No                | N/A                    | .56-1(a), (b), (c)                                                       |  |  |  |  |
| Trisodium phosphate solution                                                         | TSP                  | 5                  | 0              | NA    | 113          | Α              | No                | N/A                    | .50-73, .56-1(a), (c).                                                   |  |  |  |  |
| Urea, Ammonium nitrate solution (containing more than 2% NH3)                        | UAS                  |                    | 0              | NA    | III          | A              | No                | N/A                    | .58-1(b)                                                                 |  |  |  |  |
| Vanillin black liquor (free alkali content, 3% or more).                             | VBL                  | 5                  | 0              | NA    | 111          | Α              | No                | N/A                    | .50-73, .56-1(a), (c), (g)                                               |  |  |  |  |
| Vinyl acetate                                                                        | VAM                  |                    | 0              | С     | III          | Α              | Yes               | 2                      | .50-70(a), 50-81(a), (b)                                                 |  |  |  |  |
| Vinyl neodecanate                                                                    | VND                  |                    | 0              | E     | 11)          | Α              | No                | N/A                    | .50-70(a), .50-81(a), (b)                                                |  |  |  |  |
| Vinyltoluene                                                                         | VNT                  | 13                 | 0              | D     | Ш            | Α              | Yes               | 2                      | .50-70(a), .50-81, .56-1(a), (b), (c), (g)                               |  |  |  |  |
| Subabantar D Carroon Authorized for Vener Cartes                                     |                      |                    |                |       |              |                |                   |                        |                                                                          |  |  |  |  |
| Subchapter D Cargoes Authorized for Vapor Control Acetone                            | ACT                  | 18 <sup>2</sup>    | D              | С     |              | A              | Yes               | 1                      | \$                                                                       |  |  |  |  |
| Acetophenone                                                                         | ACP                  |                    | D              | E     |              | A              | Yes               |                        |                                                                          |  |  |  |  |
| Alcohol(C12-C16) poly(1-6)ethoxylates                                                | APU                  |                    | D              | E     |              | Α              | Yes               |                        |                                                                          |  |  |  |  |
| Alcohol(C6-C17)(secondary) poly(7-12)ethoxylates                                     | AEB                  |                    | D              | E     |              | Α              | Yes               |                        | *** ** ********************************                                  |  |  |  |  |
| Alcohol(Go-G 17)(Secondary) poly(7-12)elhoxylates                                    | AED                  | 20                 |                |       |              |                | 103               |                        |                                                                          |  |  |  |  |

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Serial #: C2-0601234

Generated: 08-Jun-06



# Certificate of Inspection Cargo Authority Attachment

Vessel Name: KIRBY 28078

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Shipyard: Trinity, Ashland City

| Amyl alcohol (so., n., sec., primary)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| Cyclothexane         CHX         31         D         C         A         Yes         1           Cyclothexanol         CHN         20         D         E         A         Yes         2           Ja-Oyclopertadene dimer (molten)         CPD         30         D         D         A         Yes         2           p-Cymene         CMP         32         D         D         A         Yes         1           Decended Sold (All Somers)         DAL         19         D         E         A         Yes         1           Decyl alcohol (all isomers)         DAX         20° 2         D         E         A         Yes         1           Decyl alcohol (all isomers)         DAX         20° 2         D         E         A         Yes         1           Decyl alcohol (all isomers)         DAX         20° 2         D         E         A         Yes         1           Decyl alcohol (all isomers)         DAX         20° 2         D         E         A         Yes         1           Decyl alcohol 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| Cyclohexanol         CHN         20         D         E         A         Yes         1           1,3-Cyclopendadiene dimer (molten)         GPD         30         D         DEE         A         Yes         2           Pc-Cymene         CMP         32         D         D         A         Yes         1           pc-Cymene         CMP         32         D         D         A         Yes         1           pc-Decylearene         DAL         19         D         E         A         Yes         1           pc-Decylearene         DCE         30         D         D         A         Yes         1           Decyl alcohol (all isomers)         DAX         20°         D         E         A         Yes         1           Decyl alcohol (all isomers)         DAX         20°         D         E         A         Yes         1           Decyl alcohol (alcohol (alcohol)         DAX         20°         D         E         A         Yes         1           Discobuly phthalate         DAX         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| Cyclohexanol         CHN         20         D         E         A         Yes         1           1,3Cyclopendidene dimer (molten)         GPD         30         D         DIE         A         Yes         2           PC-Dramen         CMP         32         D         D         A         Yes         1           Jose-Decaldehyde         IDA         19         D         E         A         Yes         1           Decene         DCE         30         D         D         A         Yes         1           Decyal acohol (all Isomers)         DAX         20°         D         E         A         Yes         1           Decyal acohol (all Isomers)         DAX         20°         D         E         A         Yes         1           Discobuly (all Isomers)         DAX         20°         D         E         A         Yes         1           Discobuly (all Isomers)         DAX         20°         D         E         A         Yes         1           Discobuly (all Isomers)         DEG         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| 1,3-Cyclopentadiene dimer (molten)  CPD 30 D D/E A Yes 1  CMP 32 D D E A Yes 1  CMP 32 D E A Yes 1  CMP 34 D E A Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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| Distillates: Flashed feed stocks         DFF         33         D         E         A         Yes         1           Distillates: Straight run         DSR         33         D         E         A         Yes         1           Dodecene (all isomers)         DOZ         30         D         D         A         Yes         1           Dodecylbenzene, sae Alkyl(C9+)benzenes         DDB         32         D         E         A         Yes         1           2-Ethoxyethyl acetate         EEA         34         D         D         A         Yes         1           Ethoxy triglycol (crude)         ETG         40         D         E         A         Yes         1           Ethyl acetate         ETA         34         D         C         A         Yes         1           Ethyl acetate         ETA         34         D         C         A         Yes         1           Ethyl acetate         EAA         34         D         E         A         Yes         1           Ethyl acetate         EAA         34         D         E         A         Yes         1           Ethyl acetate         EAA         34                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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| Distillates: Straight run         DSR         33         D         E         A         Yes         1           Dodecene (all isomers)         DOZ         30         D         D         A         Yes         1           Dodecylbenzene, see Alkyl(C9+)benzenes         DDB         32         D         E         A         Yes         1           2-Ethoxyethyl acetate         EEA         34         D         D         A         Yes         1           Ethoxy triglycol (crude)         ETG         40         D         E         A         Yes         1           Ethyl acetate         ETA         34         D         C         A         Yes         1           Ethyl acetoacetate         EAA         34         D         E         A         Yes         1           Ethyl acotoacetate         EAA         34         D         E         A         Yes         1           Ethyl acotoacetate         EAA         34         D         E         A         Yes         1           Ethyl acotoacetate         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| Dodecene (all isomers)         DOZ         30         D         D         A         Yes         1           Dodecylbenzene, see Alkyl(C9+)benzenes         DDB         32         D         E         A         Yes         1           2-Ethoxyethyl acetate         EEA         34         D         D         A         Yes         1           Ethoxy triglycol (crude)         ETG         40         D         E         A         Yes         1           Ethyl acetate         ETA         34         D         C         A         Yes         1           Ethyl acetoacetate         EAA         34         D         E         A         Yes         1           Ethyl alcohol         EAL         20 ° 2         D         C         A         Yes         1           Ethyl benzene         ETB         32         D         C         A         Yes         1           Ethyl butanol         EBT         20         D         D         A         Yes         1           Ethyl tert-butyl ether         EBE         41         D         C         A         Yes         1           Ethyl butyrate         EBR         34 <td< td=""><td>The state of the s</td><td></td><td></td><td></td><td></td><td></td><td>F-4</td><td></td><td></td><td></td></td<> | The state of the s |     |      |                |       |                | F-4 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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| Dodecylbenzene, see Alkyl(C9+)benzenes         DDB         32         D         E         A         Yes         1           2-Ethoxyethyl acetate         EEA         34         D         D         A         Yes         1           Ethoxy triglycol (crude)         ETG         40         D         E         A         Yes         1           Ethyl acetate         ETA         34         D         C         A         Yes         1           Ethyl acetoacetate         EAA         34         D         E         A         Yes         1           Ethyl alcohol         EAL         20 ° 2         D         C         A         Yes         1           Ethyl benzene         ETB         32         D         C         A         Yes         1           Ethyl butanol         EBT         20         D         D         A         Yes         1           Ethyl tert-butyl ether         EBE         41         D         C         A         Yes         1           Ethyl butyrate         EBR         34         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| 2-Ethoxyethyl acetate       EEA       34       D       D       A       Yes       1         Ethoxy triglycol (crude)       ETG       40       D       E       A       Yes       1         Ethyl acetate       ETA       34       D       C       A       Yes       1         Ethyl acetoacetate       EAA       34       D       E       A       Yes       1         Ethyl alcohol       EAL       20 ° 2       D       C       A       Yes       1         Ethylbenzene       ETB       32       D       C       A       Yes       1         Ethyl butanol       EBT       20       D       D       A       Yes       1         Ethyl tert-butyl ether       EBE       41       D       C       A       Yes       1         Ethyl butyrate       EBR       34       D       D       A       Yes       1                                                                                                                                                                                                                                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| Ethoxy triglycol (crude)         ETG         40         D         E         A         Yes         1           Ethyl acetate         ETA         34         D         C         A         Yes         1           Ethyl acetoacetate         EAA         34         D         E         A         Yes         1           Ethyl alcohol         EAL         20 ° 2         D         C         A         Yes         1           Ethylbenzene         ETB         32         D         C         A         Yes         1           Ethyl butanol         EBT         20         D         D         A         Yes         1           Ethyl tert-butyl ether         EBE         41         D         C         A         Yes         1           Ethyl butyrate         EBR         34         D         D         A         Yes         1                                                                                                                                                                                             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| Ethyl acetate         ETA         34         D         C         A         Yes         1           Ethyl acetoacetate         EAA         34         D         E         A         Yes         1           Ethyl alcohol         EAL         20 ° 2         D         C         A         Yes         1           Ethylbenzene         ETB         32         D         C         A         Yes         1           Ethyl butanol         EBT         20         D         D         A         Yes         1           Ethyl tert-butyl ether         EBE         41         D         C         A         Yes         1           Ethyl butyrate         EBR         34         D         D         A         Yes         1                                                                                                                                                                                                                                                                                                           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| Ethyl acetoacetate         EAA         34         D         E         A         Yes         1           Ethyl alcohol         EAL         20 ° D         C         A         Yes         1           Ethylbenzene         ETB         32         D         C         A         Yes         1           Ethyl butanol         EBT         20         D         D         A         Yes         1           Ethyl tert-butyl ether         EBE         41         D         C         A         Yes         1           Ethyl butyrate         EBR         34         D         D         A         Yes         1                                                                                                                                                                                                                                                                                                                                                                                                                        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| Ethyl alcohol         EAL         20 ° 2 D C         A Yes 1           Ethyl benzene         ETB 32 D C A Yes 1           Ethyl butanol         EBT 20 D D A Yes 1           Ethyl tert-butyl ether         EBE 41 D C A Yes 1           Ethyl butyrate         EBR 34 D D A Yes 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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O. S.                           | and the second s |  |  |  |
| Ethylbenzene         ETB         32         D         C         A         Yes         1           Ethyl butanol         EBT         20         D         D         A         Yes         1           Ethyl tert-butyl ether         EBE         41         D         C         A         Yes         1           Ethyl butyrate         EBR         34         D         D         A         Yes         1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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| Ethyl butanol         EBT         20         D         D         A         Yes         1           Ethyl tert-butyl ether         EBE         41         D         C         A         Yes         1           Ethyl butyrate         EBR         34         D         D         A         Yes         1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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| Ethyl tert-butyl ether         EBE         41         D         C         A         Yes         1           Ethyl butyrate         EBR         34         D         D         A         Yes         1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| Ethyl butyrate EBR 34 D D A Yes 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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| Ethyl cyclohexane ECY 31 D D A Yes 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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                                                                                                                                                                                                                                                                                                              | ECY | / 31 | D              | D     | Anna III. Para | Α   | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |  |  |

Serial #: C2-0601234



# Certificate of Inspection Cargo Authority Attachment

Vessel Name: KIRBY 28078

Official #: 1183299

Shipyard: Trinity, Ashland City

| Cargo Identification                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |              |                    |                |          |                      |               | Conditions of Carriage |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |  |  |
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| Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Chem<br>Code | Compat<br>Group No | Sub<br>Chapter | Grade    | Hull<br>Type         | Tank<br>Group | App'd<br>(Y or N)      | VCS<br>Category | Special Requirements in 46 CFR 151<br>General and Mat'ls of Construction                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |  |  |
| Ethylene glycol                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | EGL          | 20 <sup>2</sup>    | D              | E        |                      | Α             | Yes                    | 1               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |  |  |
| Ethylene glycol butyl ether acetate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | EMA          | 34                 | D              | E        |                      | A             | Yes                    | 1               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |  |  |
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| Ethylene glycol phenyl ether                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | EPE          | 40                 | D              | E        |                      | Α             | Yes                    | 1               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |  |  |
| Ethyl-3-ethoxypropionate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | EEP          | 34                 | D              | E        |                      | Α             | Yes                    | 1               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |  |  |
| 2-Ethylhexanol                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | EHX          | 20                 | D              | E        |                      | Α             | Yes                    | 1               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |  |  |
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| Ethyl toluene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ETE          | 32                 | D              | E        |                      | Α             | Yes                    | 1               | V 12 12 12 12 12 12 12 12 12 12 12 12 12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |  |  |
| Formamide                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | FAM          | 10                 | D              | E        |                      | Α             | Yes                    | 1               | 7777                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |  |  |
| Furfuryl alcohol                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | FAL          | 20 2               | D              | E        |                      | Α             | Yes                    | 1               | A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |  |  |
| Gasoline blending stocks: Alkylates                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | GAK          | 33                 | D              | A/C      | 141                  | Α             | Yes                    | 1               | The state of the s |  |  |  |
| Gasoline blending stocks: Reformates                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | GRF          |                    | D              | A/C      |                      | Α             | Yes                    | 1               | MARINE BARRIER A.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |  |  |
| Gasolines: Automotive (containing not over 4.23 grams lead per gallon)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | GAT          |                    | D              | С        |                      | A             | Yes                    | 1               | And State of the S |  |  |  |
| Gasolines: Aviation (containing not over 4.86 grams of lead per gallon)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | GAV          |                    | D              | C        |                      | A             | Yes                    | 1               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |  |  |
| Gasolines: Casinghead (natural)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | GCS          |                    | D              | A/C      |                      | A             | Yes                    | 1               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |  |  |
| Gasolines: Polymer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | GPL          |                    | D              | A/C      |                      | A             | Yes                    | 1               | The Contract of the Contract of                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |  |  |
| Gasolines: Straight run                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | GSF          |                    | D              | A/C      |                      | A             | Yes                    | 1               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |  |  |
| Glycerine                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | GCF          |                    |                | E        |                      | A             | Yes                    | 1               | to total and the second                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |  |
| The same of the sa | HMX          |                    | D              | C        |                      | Α             | Yes                    | 1               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |  |  |
| Heptane (all isomers), see Alkanes (C6-C9) (all isomers)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | HEP          |                    | D              | E        |                      | A             | Yes                    | 1               | Y Walt A Make a                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |  |  |
| Heptanoic acid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |              |                    |                |          |                      |               |                        |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |  |  |
| Heptanol (all isomers)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | HTX          |                    | D              | D/E      |                      | A             | Yes                    | 1               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |  |  |
| Heptene (all isomers)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | НРХ          |                    | D              | C        |                      | A             | Yes                    |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |  |  |
| Heptyl acetate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | HPE          |                    | D              | D        |                      | ΑΑ            | Yes                    |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |  |  |
| Hexane (all isomers), see Alkanes (C6-C9)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | HXS          |                    |                | B/C      |                      | A             | Yes                    |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |  |  |
| Hexanoic acid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | HXC          |                    | D              | E        | Dental de la company | A             | Yes                    |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |  |  |
| Hexanol                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | HXN          |                    | D              | D        |                      | A             | Yes                    |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |  |  |
| Hexene (all isomers)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | HEX          |                    | D              | <u>C</u> |                      | Α             | Yes                    |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |  |  |
| Hexylene glycol                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | HXG          |                    | D              | E        |                      | A             | Yes                    |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |  |  |
| Isophorone                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | IPH          | 18 <sup>2</sup>    |                | E        |                      | A             | Yes                    |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |  |  |
| Jet fuel: JP-4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | JPF          |                    | . D            | E        |                      | Α             | Yes                    |                 | BRANCE LIBERTS CO.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |  |  |
| Jet fuel: JP-5 (kerosene, heavy)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | JPV          |                    | D              | D        |                      | Α_            | Yes                    |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |  |  |
| Kerosenė                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | KRS          | 33                 | D              | D        |                      | A             | Yes                    |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |  |  |
| Methyl acetate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | МП           | 34                 | D              | Đ        |                      | Α             | Yes                    |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |  |  |
| Methyl alcohol                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | MAL          | 20 2               | D              | С        |                      | Α             | Yes                    |                 | Table Adam del data mana                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |  |  |
| Methylamyl acetate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | MAC          | 34                 | D              | D        |                      | Α             | Yes                    | 1               | <u> </u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |  |  |
| Methylamyl alcohol                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | MAA          | A 20               | D              | D        |                      | Α             | Yes                    | 1               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |  |  |
| Methyl amyl ketone                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | MAH          | ( 18               | D              | D        |                      | Α             | Yes                    | 1               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |  |  |
| Methyl tert-butyl ether                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | MBE          | E 41 2             | D              | C        |                      | Α             | Yes                    | 1               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |  |  |
| Methyl butyl ketone                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | MBH          | ( 18               | D              | С        |                      | Α             | Yes                    | 1               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |  |  |
| Methyl butyrate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | MBI          | J 34               | D              | С        |                      | Α             | Yes                    |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |  |  |
| Methyl ethyl ketone                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | ME           | ( 18 2             | 2 D            | С        |                      | Α             | Yes                    | 1               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |  |  |
| Methyl heptyl ketone                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | MHI          | <b>&lt;</b> 18     | D              | D        |                      | Α             | Yes                    | 1               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |  |  |
| Methyl isobutyl ketone                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | MIK          | 18 2               | 2 D            | С        |                      | Α             | Yes                    | 1               | , , , , , , , , , , , , , , , , , , , ,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |  |
| Methyl naphthalene (molten)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | MN           | A 32               | D              | E        |                      | Α             | Yes                    | 1               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |  |  |
| Mineral spirits                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | MN           | S 33               | D              | D        |                      | Α             | Yes                    | : 1             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |  |  |
| Myrcene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | MRI          | E 30               | D              | D        |                      | Α             | Yes                    | 1               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | NAC          | 3 33               | D              | #        |                      | Α             | Yes                    | 1               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |  |  |
| Naphtha; Heavy                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |              |                    |                |          |                      |               |                        |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |  |  |
| Naphtha: Heavy Naphtha: Petroleum                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | PTN          | 33                 | D              | #        |                      | Α             | Yes                    | : 1             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |  |  |

Serial #: C2-0601234 Generated: 08-Jun-06



# Certificate of Inspection Cargo Authority Attachment

Vessel Name: KIRBY 28078 Official #: 1183299

Page 6 of 8

Shipyard: Trinity, Ashland City

| *                                                       |              |                    | Cargo Identification |          |              |               |                   |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
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|                                                         | 1 1          |                    |                      |          | -            |               | Vapor R           |                 | ns of Carriage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Name                                                    | Chem<br>Code | Compat<br>Group No | Sub<br>Chapter       | Grade    | Hull<br>Type | Tank<br>Group | App'd<br>(Y or N) | VCS<br>Category | Special Requirements in 46 CFR 151<br>General and Mat'ls of Construction                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Naphtha: Stoddard solvent                               | NSS          | 33                 | D                    | D        |              | Α             | Yes               | 1               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Naphtha: Varnish makers and painters (75%)              | NVM          | 33                 | D                    | Ç        |              | Α             | Yes               | 1               | 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Nonane (all isomers), see Alkanes (C6-C9)               | NAX          | 31                 | D                    | D        | 7            | Α             | Yes               | 1               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Nonene (all isomers)                                    | NON          | 30                 | D                    | D        |              | Α             | Yes               | 2               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Nonyl alcohol (all isomers)                             | NNS          | 20 2               | D                    | E        |              | A             | Yes               | 1               | · · · · · · · · · · · · · · · · · · ·                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Nonyl phenol                                            | NNP          | 21                 | D                    | E        |              | Α             | Yes               | 1               | NATURE OF THE PROPERTY OF THE  |
| Nonyl phenol poly(4+)ethoxylates                        | NPE          | 40                 | D                    | E        |              | A             | Yes               | 1               | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Octane (all isomers), see Alkanes (C6-C9)               | OAX          | 31                 | D                    | С        |              | Α             | Yes               | 1               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Octanoic acid (all isomers)                             | OAY          | 4                  | D                    | E        |              | Α             | Yes               | 1               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Octanol (all isomers)                                   | OCX          | 20 2               | Đ                    | E        |              | A             | Yes               | 1               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Octene (all isomers)                                    | OTX          |                    | D                    | C        |              | A             | Yes               | 2               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Oil, fuel: No. 2                                        | OTW          |                    | D                    | D/E      |              | A             | Yes               | 1               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Oil, fuel: No. 2-D                                      | OTD          |                    | D                    | D        |              | A             | Yes               | 1               | W (14)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Oil, fuel: No. 4                                        | OFR          |                    | D                    | D/E      |              | A             | Yes               | 1               | TOTAL BUILDING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Oil, fuel: No. 5                                        | OFV          |                    | D                    | D/E      |              | A             | Yes               | 1               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Oil, fuel: No. 6                                        | OSX          |                    | D                    | E        |              | A             | Yes               | <u>-</u>        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                         | OIL          | 33                 | D                    | C/D      |              |               | Yes               | 1               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Oil, misc: Crude                                        | ODS          |                    | D                    | D/E      |              | A             | Yes               | 1               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Oil, misc: Diesel                                       |              |                    |                      | E        |              |               |                   |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Oil, misc: Lubricating                                  | OLB          | 33                 | D<br>D               |          |              | A             | Yes               | 1               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Oil, misc: Residual                                     | ORL          | 33                 |                      | E        |              | Α             | Yes               |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Oil, misc: Turbine                                      | OTB          |                    | D                    | E        |              | A_            | Yes               |                 | Acceptable for                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Pentane (all isomers)                                   | PTY          | 31                 | D                    | A        |              | A             | Yes               | . 5             | W                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Pentene (all isomers)                                   | PTX          |                    | D                    | Α        |              | A             | Yes               | 5               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| alpha-Pinene                                            | PIO          | 30                 | D                    | D        |              | A             | Yes               | 1               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| beta-Pinene                                             | PIP          | 30                 | D                    | D        |              | Α             | Yes               | 1               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether         | PAG          |                    | D                    | E        |              | A             | Yes               | 1               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether acetate | PAF          |                    | D                    | Е        |              | A             | Yes               | 1               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Polybutene                                              | PLB          | 30                 | D                    | E        |              | A             | Yes               | 1               | - Transit a state of the second                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Polypropylene glycol                                    | PGC          | 40                 | D                    | E        |              | ΑΑ            | Yes               | 1               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| iso-Propyl acetate                                      | IAC          | 34                 | D                    | С        |              | Α             | Yes               | 1               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| n-Propyl acetate                                        | PAT          | 34                 | D                    | С        |              | Α             | Yes               | 1               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| iso-Propyl alcohol                                      | IPA          | 20 2               | D                    | С        |              | Α             | Yes               | 1               | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| n-Propyl alcohol                                        | PAL          | 20 2               | D                    | С        |              | A             | Yes               | 1               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Propylbenzene (all isomers)                             | PBY          | 32                 | D                    | D        |              | Α             | Yes               | 1               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| iso-Propylcyclohexane                                   | IPX          | 31                 | D                    | D        |              | A             | Yes               | 1               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Propylene glycol                                        | PPG          | 20 2               | D                    | E        |              | Α             | Yes               | 1               | 774                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Propylene glycol methyl ether acetate                   | PGN          | 34                 | D                    | D        |              | Α             | Yes               | 1               | THAT A APPLIET                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Propylene tetramer                                      | PTT          | 30                 | D                    | D        |              | Α             | Yes               | 1               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Sulfolane                                               | SFL          | 39                 | D                    | E        |              | Α             | Yes               | 1               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Tetraethylene glycol                                    | TTG          | 40                 | Đ                    | E        |              | A             | Yes               | 1               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Tetrahydronaphthalene                                   | THN          | 32                 | D                    | Ε        |              | Α             | Yes               | 1               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Toluene                                                 | TOL          |                    | D                    | .C       |              | Α             | Yes               | 1               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Tricresyl phosphate (less than 1% of the ortho isomer)  | TCP          |                    | Đ                    | E        |              | Α             | Yes               | 1               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Triethylbenzene                                         | TEB          |                    | D                    | E        |              | A             | Yes               |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Triethylene glycol                                      | TEG          |                    | D                    | Ê        |              | A             | Yes               | 1               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                         | TPS          |                    | D                    | E        |              | A             | Yes               | 1               | The state of the s |
|                                                         |              |                    |                      |          |              |               |                   |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Triethyl phosphate                                      |              | 32                 | D                    | {D}      |              | Α             | Yes               | 1               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                         | TRE          |                    | D<br>D               | {D}<br>E |              | A A           | Yes               |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

Department of Homeland Security **United States Coast Guard** 

Serial #: C2-0601234 Generated: 08-Jun-06



# Certificate of Inspection Cargo Authority Attachment Shipyard: Tr

Vessel Name: KIRBY 28078

Official#: 1183299

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Shipyard: Trinity, Ashland City

| Cargo Identification           |      |                    |                |       | Conditions of Carriage |               |                              |     |                                                                         |
|--------------------------------|------|--------------------|----------------|-------|------------------------|---------------|------------------------------|-----|-------------------------------------------------------------------------|
| Name                           | Chem | Compat<br>Group No | Sub<br>Chapter | Grade | Hull<br>Type           | Tank<br>Group | Vapor R<br>App'd<br>(Y or N) | vcs | Special Requirements in 46 CFR 15<br>General and Mat'ls of Construction |
| 1-Undecyl alcohol              | UNE  | 20                 | D              | E     |                        | Α             | Yes                          | 1   |                                                                         |
| Xylenes (ortho-, meta-, para-) | XLX  | 32                 | D              | D     |                        | Α             | Yes                          | 1   |                                                                         |



Certificate of Inspection

Serial #: C2-0601234 Generated: 08-Jun-06

Shipyard: Trinity, Ashlan

Cargo Authority Attachment

Vessel Name: KIRBY 28078

Official #: 1183299

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Hull #: 4519

#### Explanation of terms & symbols used in the Table:

Cargo Identification

Compatability Group No

Name Chem Code The proper shipping name as listed in 46 CFR Table 30.25-1, 46 CFR Table 151.05, and 46 CFR Part 153 Table 2.

The three letter designation assigned to the cargo in the Chemical Hazards Response Information System (CHRIS) Manual. Certain mixtures of cargoes may not have a CHRIS Code assigned.

The cargo reactive group number assigned for compatibility determinations in 46 CFR Part 150 Tables I and II. In accordance with 46 CFR 150.130, the Person-in-Charge of the barge is responsible for ensuring that the compatibility requirements of 46 CFR Part 150 are met. Cargoes must be checked for compatibility using the figures, tables, and appendices of 46 CFR 150 in conjunction with the assigned reactive group number.

Because of the very high reactivity or unusual conditions of cardage or potential compatibility problems, this product is not assigned to a specific group in the Compatibility Chart. For additional compatibility information, contact Commandant (G-MSO-3), U.S. Coast Guard, 2100 Second Street, SW, Washington, DC 20593-0001. Telephone

See Appendix I to 46 CFR Part 150 - exceptions to the compatability chart

Subchanter Subchapter D Subchapter O

Note 2

The subchapter in Title 46 Code of Federal Regulations under which the cargo has been classified.

Those flammable and combustible liquids listed in 46 CFR Table 30 25-1

Those hazardous cargoes listed in 46 CFR Table 151.05 and 46 CFR Part 153 Table 2.

Those cargoes listed in 46 CFR Part 153 Table 2 are non-regulated cargoes when carried in bulk on non-oceangoing barges.

The cargo classification assigned to each flammable or combustible liquid. Grades inside of "()" indicate a provisional assignment based upon literature sources which were not verified by manufacturers data. The Person-in-Charge shall verify the cargo grade based on Manufacturers data and ensure that the barge is authorized for carriage of

A. B, C D, E Note 4 Flammable liquid cargoes, as defined in 46 CFR 30-10.22 Combustible liquid cargoes, as defined in 46 CFR 30-10.15.

The flammability/combustibility grade of these cargoes may vary depending upon the flashpoint and Reid vapor pressure. The Person-in-Charge shall verify the cargo grade based on Manufacturers data and ensure that the barge is authorized for carriage of that grade of cargo.

Those subchapter O cargoes which are not classified as a flammable or combustible liquid.

No flammability/combustibility grade has been assigned yet, as the necessary flash point/vapor pressure data for such assignments are presently not available.

Hull Type

HI

The required barge hull classification for carriage of the specified Subchapter O hazardous material cargo, see 46 CFR 151.10-1. Designed to carry products which require the maximum preventive measures to preclude the uncontrolled release of the cargo. See 46 CFR 151.10-1(b)(1). Designed to carry products which require significant preventive measures to preclude the uncontrolled release of cargo. See 46 CFR 151.10-1(b)(3). Designed to carry products of sufficient hazard to require a moderate degree of control. See 46 CFR 151.10-1(b)(4).

Not applicable to barges certificated under Subchapter D.

#### Conditions of Carriage

Tank Group Vapor Recovery Approved (Y or N) The vessel's tank group (as defined in Section 4) which is authorized for carriage of the named cargo.

Yes: The vessel's VCS has been reviewed and approved by the MSC to control vapors of the specified cargo. No: The vessel's VCS has been reviewed and is not approved by the MSC to control vapors of the specified cargo.

#### Conditions of Carriage

Tank Group Vapor Recovery Approved (Y or N) The vessel's tank group (as defined under the \*46 CFR Tank Group Characteristics" listed on page 1) which is authorized for carriage of the named cargo.

Yes: The vessel's VCS has been reviewed and approved by the MSC to control vapors of the specified cargo. No: The vessel's VCS has been reviewed and is not approved by the MSC to control vapors of the specified cargo.

VCS Category: Category 1

The specified cargo's provisional classification for vapor control systems.

(No additional VCS requirements above those for benzene, gasolines and crude oil) All requirements applying to the handling of oil and hezardous materials in Titles 33 and 46 Code of Federal Regulations (CFR) apply to these cargoes. Those specifically dealing with vapor control systems are in 33 CFR 155.750, 33 CFR 156.120, 33 CFR 156.170, 46 CFR 35.35 and 46 CFR 39. The cargo tank venting system calculations (46 CFR 39.20-11) and the pressure drop calculations (46 CFR 39.30-1(b)) must use appropriate friction factors, vapor densities and vapor growth rates.

Category 2

(Polymerizes) Polymerization and residue build-up of these cargoes can adversely affect the vessel by fouling safety componenets and restricting vapor flow which could lead to cargo tank overpressurization. The vessel's owner must develop a method of ensuring all VCS safety components are functional and polymer build-up is not causing an unsafe condition due to increased pressure in the vapor control piping and cargo tanks. The method shall be acceptable to the local Officer in Charge, Marine Inspection. This is in addition to the requirements of Category 1. Please note that a material not normally considered a monomer can be a problem in detonation arrester.

Category 3

(Highly toxic) VCSs for these toxic cargoes cannot use a spill valve or rupture disk as the primary means to meet the overfill protection requirement of 46 CFR 39.20-9. This requirement is in addition to the requirements of Category 1.

Category 4

(Polymerizes and highly toxic) Must comply with requirements of Categories 1, 2 and 3.

Category 5

(High vapor pressure) VCS pressure drop calculations for cargoes with a vapor pressure greater than 14.7 psia at 115 F must take into account increased vapor-air mixture densities and vapor growth rates as compared to Category 1 cargoes. Consult the Marine Safety Center's VCS Guidelines for further information. This requirement is in addition to the requirements of Category 1.

Category 6 Category 7

(High vapor pressure and highly toxic) Must comply with requirements of Categories 1, 3 and 5. (High vapor pressure and polymerizes) Must comply with requirements of Categories 1, 2 and 5,

none

The cargo has not been evaluated/classified for use in vapor control systems