

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

24 Mar 2020 Certification Date: 24 Mar 2025 Expiration Date:

Certificate of Inspection

attornal voyages this certificate fulfills the requirements of SOLAS 74 as amended, regulation V/14 for a SAFE MANNING DOCUMENTS.

| | | 2245 | AND THE PARTY OF T | IMO Number | Call Sign | Service |
|---|--|--|--|--|---|--|
| Vessel Name | | | il Number | and the land | | Tank Barge |
| KIRBY 28034 | | 116 | 2194 | | | |
| | | | | | | |
| Hailing Port | | | Hull Material | Horsepower | Propulsion | |
| WILMINGTON | N, DE | | Steel | | | |
| LILUTED OTA | TEC | | | | | |
| UNITED STAT | IES | | | | | |
| Place Built | | | | | | DWT Length |
| GALVESTON | TX | | elivery Date | Keel Laid Date Gross Ton R-1619 | R-1619 | R-297.5 |
| CALVEGICIA | | (| 1Nov2004 | 01Sep2004 | 14 15 | 10 |
| UNITED STAT | TES | | | | | |
| | | | | | | 1 |
| Owner | | The same | | Operator | D MADINE I D | |
| 55 WAUGH DI | | | | 18350 MARK | D MARINE, LP | |
| HOUSTON, TX | | | | | W, TX 77530 | |
| UNITED STAT | | | | UNITED STA | TES | |
| | 1999 | | | | | |
| | | | | and unlicensed Person Type Rating, and 0 GM | | nich there must be |
| 0 Masters | THE RESERVE OF THE PARTY OF THE | Licensed Mates | | | Ollers | |
| 0 Chief Mates | | First Class Pilots | | ssistant Engineers | Cilcio | |
| 0 Second Mate | | Radio Officers | | d Assistant Engineers | | |
| 0 Third Mates | 0 | Able Seamen | | Assistant Engineers | | |
| 0 Master First 0 | Class Pilot 0 | Ordinary Seamen | | ed Engineers | | |
| 0 Mate First Cla | lass Pilots 0 | Deckhands | 0 Qualifi | ed Member Engineer | | |
| | | arry 0 Passeng | ers, 0 Other | Persons in crew, 0 Per | rsons in addition to | o crew, and no Others. Total |
| Persons allowe | ed: 0 | | | The second | THEFT | |
| Route Permit | tted And Cond | litions Of Ope | ration: | | | A TOTAL TOTAL PROPERTY. |
| Lakes, B | ays, and S | ounds plus | Limited | Coastwise | | |
| | | | | | 1,515 | |
| Florida. | weather only | , not more to | an twelve | (12) miles from sho | re between St. | Marks and Carrabelle, |
| | | La | | | 22.2 | |
| this usesal ha | as been dramr | ed a fresh w | icer servic | | | |
| vesser is oper | rated in sait | water more | nan e mont | ns in any 12 month | period the wee | and make her dear the second |
| salt water int | tervals per 4 | water more | nan e mont | ns in any 12 month | period the wee | 31.10-21(a)(2). If this sel must be inspected using titing as soon as this |
| vesser is oper salt water int change in stat | tervals per 4 | 6 CFR 31.10-2 | nan 6 mont (1(a)(1) ar | ns in any 12 month d the cognizant OCM | period, the ves I notified in w | sel must be inspected using titing as soon as this |
| vesser is oper salt water int change in stat | tervals per 4 | 6 CFR 31.10-2 | nan 6 mont (1(a)(1) ar | ns in any 12 month d the cognizant OCM | period, the ves I notified in w | and make her transfer and |
| vessel is oper salt water int change in stat This tank barg | tervals per 4 tus occurs. | 6 CFR 31.10-2 | chan 6 mont 21(a)(1) ar | ast and Ninth Guard | period, the ves I notified in w District's Tan | sel must be inspected using titing as soon as this |
| vessel is oper salt water int change in stat This tank barg | pe is particip | pating in the | Eighth Co | ast and Ninth Guard | period, the ves I notified in w District's Tan | sel must be inspected using titing as soon as this k Barge Streamlined |
| ressel is oper salt water int change in stat This tank barg ***SEE NEXT With this Inspect respection, Marin | ervals per 4 tus occurs. pe is participe PAGE FOR A tion for Certificene Safety Unit | pating in the ADDITIONAL sation having b | Eighth Co | ast and Ninth Guard ATE INFORMATION ted at Port Arthur, TX, | District's Tan | sel must be inspected using riting as soon as this k Barge Streamlined |
| ressel is oper salt water int change in stat This tank barg ***SEE NEXT With this Inspect respection, Marin | tus occurs. pe is participe PAGE FOR Action for Certification for Certification Safety United and regulations. | pating in the ADDITIONAL cation having be Port Arthur ce cons prescribed | CERTIFIC een comple rtified the ve | ast and Ninth Guard ATE INFORMATION ted at Port Arthur, TX, essel, in all respects, is | District's Tan W UNITED STATE in conformity wit | sel must be inspected using titing as soon as this k Barge Streamlined |
| ***SEE NEXT Vith this Inspection, Maria was and the rule | PAGE FOR / tion for Certific ne Safety Unit es and regulati Annual/Perior | pating in the ADDITIONAL cation having b Port Arthur ce ons prescribed dic/Re-Inspect | CERTIFIC een comple rtified the ve | ast and Ninth Guard ATE INFORMATION ted at Port Arthur, TX, essel, in all respects, is | District's Tan WINITED STATE in conformity with | k Barge Streamlined S, the Officer in Charge, Marine h the applicable vessel inspection |
| salt water interpretable in state thange in state this tank barg ***SEE NEXT With this Inspection, Marinaws and the rule Date | PAGE FOR Attonum for Certification for Certification Safety Unit es and regulation Zone | pating in the ADDITIONAL cation having be Port Arthur ce cons prescribed | CERTIFIC een comple rtified the ve thereunder | ATE INFORMATION ted at Port Arthur, TX, essel, in all respects, is This certifie | District's Tan WINITED STATE in conformity with | k Barge Streamlined S, the Officer in Charge, Marine h the applicable vessel inspection |
| ***SEE NEXT Vith this Inspection, Marinaws and the rule | PAGE FOR Atton for Certification Safety Unit es and regulation Annual/Period | pating in the ADDITIONAL sation having b Port Arthur ce sons prescribed dic/Re-Inspect | CERTIFIC een comple rtified the ve thereunder on Signatur RAUN S | ATE INFORMATION ted at Port Arthur, TX, essel, in all respects, is This certifie | District's Tan WINITED STATE in conformity with | k Barge Streamlined S, the Officer in Charge, Marine h the applicable vessel inspection |
| ***SEE NEXT Vith this Inspection, Marinaws and the rule | PAGE FOR Attonum for Certification for Certification for Certification Safety Unit es and regulation Zone | pating in the ADDITIONAL sation having b Port Arthur ce sons prescribed dic/Re-Inspect | CERTIFIC een comple rtified the ve thereunder | ATE INFORMATION ted at Port Arthur, TX, essel, in all respects, is This certifie | District's Tan WINITED STATE in conformity with Cate issued by J. ANDREW, CL e, Manna inspection | k Barge Streamlined S, the Officer in Charge, Marine h the applicable vessel inspection OR, USCG, By direction |
| ***SEE NEXT With this Inspection, Marinaws and the rule Date 1 - 202 H | PAGE FOR Atton for Certification Safety Unit es and regulation Annual/Period | pating in the ADDITIONAL sation having b Port Arthur ce sons prescribed dic/Re-Inspect | CERTIFIC een comple rtified the ve thereunder on Signatur RAUN S | ATE INFORMATION ted at Port Arthur, TX, essel, in all respects, is This certifie | District's Tan UNITED STATE in conformity with Cate issued by J. ANDREW, CI e, Manna Inspection Marine Safe | k Barge Streamlined S, the Officer in Charge, Marine h the applicable vessel inspection |



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

Certification Date: 24 Mar 2020 Expiration Date: 24 Mar 2025

Certificate of Inspection

Vessel Name: KIRBY 28034

Inspection Program (TBSIP). Inspection activities aboard this barge shall be conducted per its Tank Barge Action Plan (TAP). Inspection issues concerning this barge should be directed to OCMI Houston-Galveston.

---Hull Exams---

 Exam Type
 Next Exam
 Last Exam
 Prior Exam

 DryDock
 04Feb2025
 04Feb2015
 01Nov2004

 Internal Structure
 28Feb2025
 24Mar2020
 04Feb2015

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

Authorization: Flammable/combustible liquids and specified hazardous cargoes

Total Capacity Units Highest Grade Type Part151 Regulated Part153 Regulated Part154 Regulated

31660 Barrels A Yes No No

Hazardous Bulk Solids Authority

Not Authorized

Loading Constraints - Structural

| Tank Location Description | Max Cargo Weight per Tank (short tons) | Maximum Density (lbs/gal) |
|---------------------------|--|---------------------------|
| 1 P/S | 977 | 13.6 |
| 2 P/S | 977 | 13.6 |
| 3 P/S | 954 | 13.6 |

Loading Constraints - Stability

| Hull Type | Maximum Load (short tons) | Maximum Draft (ft/in) | Max Density (lbs/gal) | Route Description |
|-----------|---------------------------|-----------------------|--------------------------|-------------------|
| 11 | 3604 | 10ft 3in | 13.6 | |
| Ш | 5539 | 11ft 0in | 13.6 | |

Conditions Of Carriage

Only those specified hazardous cargoes named in the vessel's Cargo Authority Attachment (CAA), Serial #C1-1300016, dated January 02, 2013, may be carried. The specified hazardous cargoes may be carried only in the tanks indicated.

Per 46 CFR 150.130, the person in charge of the vessel is responsible for ensuring the compatibility requirements of 46 CFR 150 are met. Cargoes must be checked for compatibility using figures, tables, and appendices of 46 CFR 150 in conjunction with the reactive group number from the "Compat Group No" column listed in the vessel's CAA.

When the vessel is carrying cargoes containing 0.5% or greater benzene by volume, the person in charge is responsible for ensuring the provisions of 46 CFR 197, Subpart C, are applied.

Vapor Control Authorization

In accordance with 46 CFR 39, excluding part 39.4000, this vessel's vapor collection system (VCS) has been inspected to the plans approved by Marine Safety Center letter Serial No. C1-1300016 dated January 2, 2013, and has been found acceptable for the collection of bulk liquid cargo vapors annotated with "Yes" in the vessel's Cargo Authority Attachment's VCS column.

Per 46 CFR 39.1017 and 39.5000(e), this vessel's VCS has been evaluated and approved for multi-breasted tandem loading with other vessels specifically approved to tandem load with this vessel.

Stability and Trim

Per 46 CFR 151.10(c)(2), the maximum tank weights listed above reflect uniform (within 5%) loading at the deepest draft



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Vessel Name: KIRBY 28034

allowed. When carrying Subchapter "O" cargoes at shallower drafts, the barge should always be loaded uniformly.

The maximum design density of cargo which may be filled to the tank top is 8.745 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 above.

--- Inspection Status ---

Cargo Tanks

| | | Internal Exam | | | External Exam | | |
|---|---------|----------------|-----------|------------|---------------|------|------|
| | Tank Id | Previous | Last | Next | Previous | Last | Next |
| | 1 P/S | 01Nov2004 | 04Feb2015 | 04Feb2025 | - | - | - |
| | 2 P/S | 01Nov2004 | 04Feb2015 | 04Feb2025 | - | - | - |
| | 3 P/S | 01Nov2004 | 04Feb2015 | 04Feb2025 | - | - | - |
| | | | | Hydro Test | | | |
| ١ | Tank Id | Safety Valves | | Previous | Last | Next | |
| | 1 P/S | . - | | - | - | == | |
| | 2 P/S | - | | - | - | - | |
| I | 3 P/S | - | | <u>-</u> | <u>=</u> | _ | |

--- Conditional Portable Fire Extinguisher Requirements---

Required Only During Transfer of Cargo or Operation of Barge Machinery

--- Fire Fighting Equipment ---

Fire Extinguishers - Hand portable and semi-portable

Quantity

Class Type

2

B-II

END



Serial #:

ed: 02-Jan-13

C1-1300016

Certificate of Inspection

Cargo Authority Attachment

Vessel Name: KIRBY 28034 Official #: 1162194

Shipyard: West Gulf Marine

Hull #: 144

46 CFR 151 Tank Group Characteristics

| Tan | k Group Information | Cargo I | dentificati | ion | | Cargo | | Tanks | | | Cargo Transfer | | Environmental Control | | Special Requirements | | | |
|------------|---------------------|---------|-------------|-------|-------------|------------|---------------------|-------|--------|---------------|-------------------|-------|--------------------------|------------------------|--|---|------|------|
| Tnk Grp | Tanks in Group | Density | Press. | Temp. | Hull Typ | Seq | Туре | Vent | Gauge | Pipe Class | Cont | Tanks | Handling Space | Protection Provided | General | Materials of Construction | Elec | Temp |
| A # | #1P/S,#2P/S,#3P/S | 13.6 | Atmos. | Amb. | II | 1ii 2ii | Integral Gravity | PV | Closed | Ш | G-1 | NR | NA | Portable | .50-60, .50-70(a), .50-70(b), .50-73, | 55-1(b), (c), (e), (f), (j), 56-1(a), (b), (c), (d), (e), (f), (g), | NR | No |

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.

List of Authorized Cargoes

| Cargo Identification | n | | | | | Conditions of Carriage | | | | | | |
|--|------|--------------------|----------------|-------|--------------|------------------------|-------------------|-----------------|---|-----------------|--|--|
| | | | | | | | Vapor R | | | | | |
| Name | Code | Compat Group No | Sub Chapter | Grade | Hull Type | Tank Group | App'd (Y or N) | VCS Category | Special Requirements in 46 CFR 151 General and Mat'ls of | Insp. Period | | |
| Authorized Subchapter O Cargoes | | | | | | | | | | | | |
| Acetonitrile | ATN | 37 | 0 | С | Ш | Α | Yes | 3 | No | G | | |
| Acrylonitrile | ACN | 15 ² | 0 | С | П | Α | Yes | 4 | .50-70(a), .55-1(e) | G | | |
| Adiponitrile | ADN | 37 | 0 | E | H | Α | Yes | 1 | No | G | | |
| Alkyl(C7-C9) nitrates | AKN | 34 2 | 0 | NA | Ш | Α | No | N/A | .50-81, .50-86 | G | | |
| Aminoethylethanolamine | AEE | 8 | 0 | E | Ш | Α | Yes | 1 | .55-1(b) | G | | |
| Ammonium bisulfite solution (70% or less) | ABX | 43 2 | 0 | NA | Ш | Α | No | N/A | .50-73, .56-1(a), (b), (c) | G | | |
| Ammonium hydroxide (28% or less NH3) | AMH | 6 | 0 | NA | 111 | Α | No | N/A | .56-1(a), (b), (c), (f), (g) | G | | |
| Anthracene oil (Coal tar fraction) | АНО | 33 | 0 | NA | II | Α | No | N/A | No | G | | |
| Benzene | BNZ | 32 | 0 | С | Ш | Α | Yes | 1 | .50-60 | G | | |
| Benzene or hydrocarbon mixtures (having 10% Benzene or more) | внв | 32 ² | 0 | С | Ш | Α | Yes | 1 | .50-60 | G | | |
| Benzene or hydrocarbon mixtures (containing Acetylene and 10% Benzene or more) | ВНА | 32 ² | 0 | С | Ш | Α | Yes | 1 | .50-60, .56-1(b), (d), (f), (g) | G | | |
| Benzene, Toluene, Xylene mixtures (10% Benzene or more) | BTX | 32 | 0 | B/C | 111 | Α | Yes | 1 | .50-60 | G | | |
| Butyl acrylate (all isomers) | BAR | 14 | 0 | D | Ш | Α | Yes | 2 | .50-70(a), .50-81(a), (b) | G | | |
| Butyl methacrylate | вмн | 14 | 0 | D | 111 | Α | Yes | 2 | .50-70(a), .50-81(a), (b) | G | | |
| Butyraldehyde (all isomers) | BAE | 19 | 0 | С | Ш | Α | Yes | 1 | .55-1(h) | G | | |
| Camphor oil (light) | СРО | 18 | 0 | D | 11 | Α | No | N/A | No | G | | |
| Carbon tetrachloride | CBT | 36 | 0 | NA | 111 | A | No | N/A | No | G | | |
| Caustic potash solution | CPS | 5 ² | 0 | NA | 111 | Α | No | N/A | .50-73, .55-1(j) | G | | |
| Caustic soda solution | CSS | 5 ² | 0 | NA | Ш | Α | No | N/A | .50-73, .55-1(j) | G | | |
| Chemical Oil (refined, containing phenolics) | COD | 21 | 0 | E | П | Α | No | N/A | .50-73 | G | | |
| Chlorobenzene | CRB | 36 | 0 | D | 111 | Α | Yes | 1 | No | G | | |
| Chloroform | CRF | 36 | 0 | NA | III | Α | Yes | 3 | No | G | | |
| Coal tar naphtha solvent | NCT | 33 | 0 | D | Ш | Α | Yes | 1 | .50-73 | G | | |
| Creosote | ccw | 21 2 | 0 | E | Ш | Α | Yes | 1 | No | G | | |
| Cresols (all isomers) | CRS | 21 | 0 | E | III | Α | Yes | 1 | No | G | | |
| Cresylate spent caustic | CSC | 5 | 0 | NA | III | Α | No | N/A | .50-73, .55-1(b) | G | | |
| Cresylic acid tar | CRX | | 0 | E | III | Α | Yes | 1 | .55-1(f) | G | | |
| Crotonaldehyde | CTA | 19 ² | 0 | С | Н | Α | Yes | 4 | .55-1(h) | G | | |
| Crude hydrocarbon feedstock (containing Butyraldehydes and Ethylpropyl acrolein) | CHG | | 0 | С | Ш | Α | No | N/A | No | G | | |
| Cyclohexanone | CCH | 18 | 0 | D | Ш | Α | Yes | 1 | .56-1(a), (b) | G | | |
| Cyclohexanone, Cyclohexanol mixture | CYX | 18 ² | 0 | E | 111 | Α | Yes | 1 | .56-1 (b) | G | | |
| Cyclohexylamine | CHA | 7 | 0 | D | Ш | Α | Yes | 1 | .56-1(a), (b), (c), (g) | G | | |
| Cyclopentadiene, Styrene, Benzene mixture | CSB | 30 | 0 | D | 111 | Α | Yes | 1 | .50-60, .56-1(b) | G | | |

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

^{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 equipment located in a hazardous location.



Certificate of Inspection

Cargo Authority Attachment

Vessel Name: KIRBY 28034

Official #: 1162194

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Shipyard: West Gulf Marine

| Cargo Identification | n | | | | | Conditions of Carriage | | | | | |
|---|------|----------------------|----------------|----------|--------------|------------------------|-------------------|-----------------|---|------|--|
| | | | | | | | | ecovery | | | |
| Name | Chem | Compat Group No | Sub Chapter | Grade | Hull Type | Tank Group | App'd (Y or N) | VCS Category | Special Requirements in 46 CFR 151 General and Mat'ls of | Insp | |
| iso-Decyl acrylate | IAI | 14 | 0 | Е | Ш | Α | Yes | 2 | .50-70(a), .50-81(a), (b), .55-1(c) | G | |
| Dichlorobenzene (all isomers) | DBX | 36 | 0 | E | Ш | Α | Yes | 3 | .56-1(a), (b) | G | |
| 1,1-Dichloroethane | DCH | 36 | 0 | С | 111 | Α | Yes | 1 | No | G | |
| 2,2'-Dichloroethyl ether | DEE | 41 | 0 | D | Ш | Α | Yes | 1 | .55-1(f) | G | |
| Dichloromethane | DCM | 36 | 0 | NA | 111 | Α | Yes | 5 | No | G | |
| 2,4-Dichlorophenoxyacetic acid, diethanolamine salt solution | DDE | 43 | 0 | Ε | 111 | Α | No | N/A | .56-1(a), (b), (c), (g) | 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) | G | |
| 2,4-Dichlorophenoxyacetic acid, triisopropanolamine salt solution | DTI | 43 2 | 0 | E | 111 | Α | No | N/A | .56-1(a), (b), (c), (g) | G | |
| 1,1-Dichloropropane | DPB | 36 | 0 | С | 111 | Α | Yes | 3 | No | G | |
| 1,2-Dichloropropane | DPP | 36 | 0 | С | 111 | Α | Yes | 3 | No | G | |
| 1,3-Dichloropropane | DPC | 36 | 0 | С | 111 | Α | Yes | 3 | No | G | |
| 1,3-Dichloropropene | DPU | 15 | 0 | D | Ш | Α | Yes | 4 | No | G | |
| Dichloropropene, Dichloropropane mixtures | DMX | 15 | 0 | С | П | Α | Yes | 1 | No | G | |
| Diethanolamine | DEA | 8 | 0 | E | Ш | Α | Yes | 1 | .55-1(c) | G | |
| Diethylamine | DEN | 7 | 0 | С | III | Α | Yes | 3 | .55-1(c) | G | |
| Diethylenetriamine | DET | 7 2 | 0 | E | III | Α | Yes | 1 | .55-1(c) | G | |
| Diisobutylamine | DBU | 7 | 0 | D | III | Α | Yes | 3 | .55-1(c) | G | |
| Diisopropanolamine | DIP | 8 | 0 | E | III | Α | Yes | 1 | .55-1(c) | G | |
| Diisopropylamine | DIA | 7 | 0 | С | 11 | Α | Yes | 3 | .55-1(c) | G | |
| N,N-Dimethylacetamide | DAC | 10 | 0 | E | III | Α | Yes | 3 | .56-1(b) | G | |
| Dimethylethanolamine | DMB | 8 | 0 | D | III | A | Yes | 1 | .56-1(b), (c) | G | |
| Dimethylformamide | DMF | 10 | 0 | D | III | A | Yes | 1 | .55-1(e) | G | |
| Di-n-propylamine | DNA | 7 | 0 | С | 11 | A | Yes | 3 | .55-1(c) | G | |
| Dodecyldimethylamine, Tetradecyldimethylamine mixture | DOT | 7 | 0 | E | 111 | A | No | N/A | .56-1(b) | G | |
| Dodecyl diphenyl ether disulfonate solution | DOS | 43 | 0 | # | II. | A | No | N/A | No | G | |
| EE Glycol Ether Mixture | EEG | 40 | 0 | D | III | A | No | N/A | No | G | |
| Ethanolamine | MEA | 8 | 0 | E | III | A | Yes | 1 | .55-1(c) | G | |
| | EAC | 14 | 0 | C | 111 | A | Yes | 2 | .50-70(a), .50-81(a), (b) | G | |
| Ethyl acrylate | EAN | 7 | 0 | A | - 11 | A | No | N/A | .55-1(b) | G | |
| Ethylamine solution (72% or less) | EBA | 7 | 0 | D | 111 | A | Yes | 3 | .55-1(b) | G | |
| N-Ethylbutylamine | | 7 | 0 | D | 111 | | Yes | 1 | .55-1(b) | G | |
| N-Ethylcyclohexylamine | ECC | | | E | | A | | | No | G | |
| Ethylene cyanohydrin | ETC | 20 7 ² | 0 | | 111 | A . | Yes | 1 | .55-1(c) | G | |
| Ethylenediamine | EDA | | 0 | D | 111 | A | Yes | 1 | No No | G | |
| Ethylene dichloride | EDC | 36 ² | 0 | С | - 111 | Α | Yes | 1 | No | G | |
| Ethylene glycol hexyl ether | EGH | 40 | 0 | E D/E | | Α | No | N/A | No | G | |
| Ethylene glycol monoalkyl ethers | EGC | 40 | 0 | D/E | | Α | Yes | 1 | No | G | |
| Ethylene glycol propyl ether | EGP | 40 | 0 | E | - 111 | Α | Yes | 1 | .50-70(a), .50-81(a), (b) | G | |
| 2-Ethylhexyl acrylate | EAI | 14 | 0 | E | 111 | A | Yes | 2 | .50-70(a), .50-81(a), (b) | G | |
| Ethyl methacrylate | ETM | 14 | 0 | D/E | 111 | Α | Yes | 2 | No No | G | |
| 2-Ethyl-3-propylacrolein | EPA | 19 2 | 0 | E | 111 | A . | Yes | 1 | .55-1(h) | G | |
| Formaldehyde solution (37% to 50%) | FMS | 19 2 | 0 | D/E | - 111 | Α | Yes | 1 | | G | |
| Furfural | FFA | 19 | 0 | D | - 111 | A | Yes | 1 | .55-1(h) | G | |
| Glutaraldehyde solution (50% or less) | GTA | 19 | 0 | NA | | A . | No | N/A | No | G | |
| Hexamethylenediamine solution | HMC | 7 | 0 | E | - 111 | Α . | Yes | 1 | .55-1(c) | G | |
| Hexamethyleneimine | HMI | 7 | 0 | С | 11 | A | Yes | 1 | .56-1(b), (c) | | |
| Hydrocarbon 5-9 | HFN | | 0 | С | III | Α | Yes | 1 | .50-70(a), .50-81(a), (b) | G | |
| soprene | IPR | 30 | 0 | Α | 111 | Α | No | N/A | .50-70(a), .50-81(a), (b) | G | |
| soprene, Pentadiene mixture | IPN | | 0 | В | III | Α | No | N/A | .50-70(a), .55-1(c) | G | |



Certificate of Inspection

Cargo Authority Attachment

Vessel Name: KIRBY 28034 Official #: 1162194

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Shipyard: West Gulf Marine

Serial #: C1-1300016

02-Jan-13

| Cargo Identification | 1 | | | | | | Conditions of Carriage | | | | | | |
|--|------|--------------------|----------------|-------|--------------|---------------|------------------------|-----------------|---|-----------------|--|--|--|
| | | | | | | | | Recovery | | | | | |
| Name | Chem | Compat Group No | Sub Chapter | Grade | Hull Type | Tank Group | (Y or N) | VCS Category | Special Requirements in 46 CFR 151 General and Mat'ls of | Insp. Period | | | |
| Kraft pulping liquors (free alkali content 3% or more)(including: Black, Green, or White liquor) | KPL | 5 | 0 | NA | Ш | Α | No | N/A | .50-73, .56-1(a), (c), (g) | G | | | |
| Mesityl oxide | MSO | 18 ² | 0 | D | Ш | Α | Yes | 1 | No | G | | | |
| Methyl acrylate | MAM | 14 | 0 | С | Ш | Α | Yes | 2 | .50-70(a), .50-81(a), (b) | G | | | |
| Methylcyclopentadiene dimer | MCK | 30 | 0 | С | III | Α | Yes | 1 | No | G | | | |
| Methyl diethanolamine | MDE | 8 | 0 | Е | 111 | Α | Yes | 1 | .56-1(b), (c) | G | | | |
| 2-Methyl-5-ethylpyridine | MEP | 9 | 0 | E | Ш | Α | Yes | 1 | .55-1(e) | G | | | |
| Methyl methacrylate | MMM | 1 14 | 0 | С | 111 | Α | Yes | 2 | .50-70(a), .50-81(a), (b) | G | | | |
| 2-Methylpyridine | MPR | 9 | 0 | D | III | Α | Yes | 3 | .55-1(c) | G | | | |
| alpha-Methylstyrene | MSR | 30 | 0 | D | Ш | Α | Yes | 2 | .50-70(a), .50-81(a), (b) | G | | | |
| Morpholine | MPL | 7 2 | 0 | D | III | A | Yes | 1 | .55-1(c) | G | | | |
| Nitroethane | NTE | 42 | 0 | D | 11 | A | No | N/A | .50-81, .56-1(b) | G | | | |
| 1- or 2-Nitropropane | NPM | 42 | 0 | D | 111 | A | Yes | 1 | .50-81 | G | | | |
| 1,3-Pentadiene | PDE | 30 | 0 | A | 111 | A | No | N/A | .50-70(a), .50-81 | G | | | |
| Perchloroethylene | PER | 36 | 0 | NA NA | 111 | A | No | N/A | No | G | | | |
| | PEB | 7 2 | 0 | E | III | A | | 0.000000 | .55-1(e) | G | | | |
| Polyethylene polyamines iso-Propanolamine | MPA | 8 | | E | | | Yes | 1 | .55-1(c) | G | | | |
| | | | 0 | | - 111 | Α . | Yes | 1 | | | | | |
| Propanolamine (iso-, n-) | PAX | 8 | 0 | E | - 111 | A | Yes | 1 | .56-1(b), (c) | | | | |
| iso-Propylamine | IPP | 7 | 0 | Α | <u> </u> | A | Yes | 5 | .55-1(c) | G | | | |
| Pyridine | PRD | 9 | 0 | С | III | Α | Yes | 1 | .55-1(e) | G | | | |
| Sodium acetate, Glycol, Water mixture (3% or more Sodium Hydroxide | - | | 0 | | 111 | Α | No | N/A | .50-73, .55-1(j) | G | | | |
| Sodium aluminate solution (45% or less) | SAU | 5 | 0 | NA | III | Α | No | N/A | .50-73, .56-1(a), (b), (c) | G | | | |
| Sodium chlorate solution (50% or less) | SDD | 0 1,2 | 0 | NA | 111 | Α | No | N/A | .50-73 | G | | | |
| Sodium hypochlorite solution (20% or less) | SHQ | 5 | 0 | NA | III | Α | No | N/A | .50-73, .56-1(a), (b) | G | | | |
| Sodium sulfide, hydrosulfide solution (H2S 15 ppm or less) | SSH | 0 1,2 | 0 | NA | Ш | Α | Yes | 1 | .50-73, .55-1(b) | G | | | |
| Sodium sulfide, hydrosulfide solution (H2S greater than 15 ppm but less than 200 ppm) | SSI | 0 1,2 | 0 | NA | Ш | Α | No | N/A | .50-73, .55-1(b) | G | | | |
| Sodium sulfide, hydrosulfide solution (H2S greater than 200 ppm) | SSJ | 0 1,2 | 0 | NA | 11 | Α | No | N/A | .50-73, .55-1(b) | G | | | |
| Styrene (crude) | STX | | 0 | D | Ш | Α | Yes | 2 | No | G | | | |
| Styrene monomer | STY | 30 | 0 | D | III | Α | Yes | 2 | .50-70(a), .50-81(a), (b) | G | | | |
| 1,1,2,2-Tetrachloroethane | TEC | 36 | 0 | NA | Ш | Α | No | N/A | No | G | | | |
| Tetraethylenepentamine | TTP | 7 | 0 | E | III | Α | Yes | 1 | .55-1(c) | G | | | |
| Tetrahydrofuran | THF | 41 | 0 | С | Ш | Α | Yes | 1 | .50-70(b) | G | | | |
| Toluenediamine | TDA | 9 | 0 | E | 11 | Α | No | N/A | .50-73, .56-1(a), (b), (c), (g) | G | | | |
| 1,2.4-Trichlorobenzene | TCB | 36 | 0 | Е | Ш | Α | Yes | 1 | No | G | | | |
| 1,1,2-Trichloroethane | TCM | 36 | 0 | NA | Ш | Α | Yes | 1 | .50-73, .56-1(a) | G | | | |
| Trichloroethylene | TCL | 36 ² | 0 | NA | 111 | Α | Yes | 1 | No | G | | | |
| 1,2,3-Trichloropropane | TCN | 36 | 0 | E | 11 | Α | Yes | 3 | .50-73, .56-1(a) | G | | | |
| Triethanolamine | TEA | 8 ² | 0 | E | III | A | Yes | 1 | .55-1(b) | G | | | |
| Triethylamine | TEN | 7 | 0 | c | 11 | A | Yes | 3 | .55-1(e) | G | | | |
| Triethylenetetramine | TET | 7 2 | 0 | E | 111 | A | Yes | 1 | .55-1(b) | G | | | |
| Triphenylborane (10% or less), caustic soda solution | TPB | 5 | 0 | NA | III | A | No | N/A | .56-1(a), (b), (c) | G | | | |
| Trisodium phosphate solution | TSP | 5 | 0 | NA | 111 | A | No | N/A | .50-73, .56-1(a), (c). | G | | | |
| The state of the s | UAS | 6 | 0 | NA | 111 | | No | N/A | .56-1(b) | G | | | |
| Urea, Ammonium nitrate solution (containing more than 2% NH3) | VBL | 5 | 0 | NA | 111 | A | | N/A | .50-73, .56-1(a), (c), (g) | | | | |
| Vanillin black liquor (free alkali content, 3% or more). | | | 0 | C | 111 | | No | 2 2 | .50-70(a), .50-81(a), (b) | | | | |
| Vinyl acetate | VAM | 13 | | | | A | Yes | N/A | .50-70(a), .50-81(a), (b) | G | | | |
| Vinyl neodecanate | VND | 13 | 0 | E | 111 | A | No | | .50-70(a), .50-81, .56-1(a), (b), (c), (| G | | | |
| Vinyltoluene | VNT | 13 | 0 | D | III | Α | Yes | 2 | .50-70(a), .50-61, .56-1(a), (b), (c), (| | | | |



Certificate of Inspection

Cargo Authority Attachment

Vessel Name: KIRBY 28034

Official #: 1162194

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Shipyard: West Gulf Marine

| Cargo Identificatio | n | | | | | Conditions of Carriage | | | | | |
|---|------|--------------------|----------------|-------|--------------|------------------------|----------|-----------------|---|-----------------|--|
| | 01 | | | | | | | Recovery | | | |
| Name | Chem | Compat Group No | Sub Chapter | Grade | Hull Type | Tank Group | (Y or N) | VCS Category | Special Requirements in 46 CFR 151 General and Mat'ls of | Insp. Period | |
| Subchapter D Cargoes Authorized for Vapor Contr | ol | | | | | | | | | | |
| Acetone | ACT | 18 ² | D | С | | Α | Yes | 1 | | | |
| Acetophenone | ACP | 18 | D | E | | Α | Yes | 1 | | | |
| Alcohol(C12-C16) poly(1-6)ethoxylates | APU | 20 | D | E | | Α | Yes | 1 | | | |
| Alcohol(C6-C17)(secondary) poly(7-12)ethoxylates | AEB | 20 | D | E | | Α | Yes | 1 | | | |
| Amyl acetate (all isomers) | AEC | 34 | D | D | | Α | Yes | 1 | | | |
| Amyl alcohol (iso-, n-, sec-, primary) | AAI | 20 | D | D | | Α | Yes | 1 | | | |
| Benzyl alcohol | BAL | 21 | D | E | | Α | Yes | 1 | | | |
| Brake fluid base mixtures (containing Poly(2-8)alkylene(C2-C3) glycols, Polyalkylene(C2-C10) glycol monoalkyl(C1-C4) ethers, and their borate esters) | BFX | 20 | D | E | | Α | Yes | 1 | | | |
| Butyl acetate (all isomers) | BAX | 34 | D | D | | Α | Yes | 1 | | | |
| Butyl alcohol (iso-) | IAL | 20 ² | D | D | | Α | Yes | 1 | | | |
| Butyl alcohol (n-) | BAN | 20 ² | D | D | | Α | Yes | 1 | | | |
| Butyl alcohol (sec-) | BAS | 20 ² | D | С | | Α | Yes | 1 | | | |
| Butyl alcohol (tert-) | BAT | | D | С | | Α | Yes | 1 | | | |
| Butyl benzyl phthalate | BPH | 34 | D | E | | Α | Yes | 1 | | | |
| Butyl toluene | BUE | 32 | D | D | | Α | Yes | 1 | | | |
| Caprolactam solutions | CLS | 22 | D | E | | Α | Yes | 1 | | | |
| Cyclohexane | CHX | 31 | D | С | | Α | Yes | 1 | | | |
| Cyclohexanol | CHN | 20 | D | E | | Α | Yes | 1 | | | |
| 1,3-Cyclopentadiene dimer (molten) | CPD | 30 | D | D/E | | Α | Yes | 2 | | | |
| p-Cymene | CMP | 32 | D | D | | Α | Yes | 1 | | | |
| iso-Decaldehyde | IDA | 19 | D | E | | Α | Yes | 1 | | | |
| n-Decaldehyde | DAL | 19 | D | E | | Α | Yes | 1 | | | |
| Decene | DCE | 30 | D | D | | Α | Yes | 1 | | | |
| Decyl alcohol (all isomers) | DAX | 20 ² | D | E | | Α | Yes | 1 | | | |
| n-Decylbenzene, see Alkyl(C9+)benzenes | DBZ | 32 | D | E | | Α | Yes | 1 | | | |
| Diacetone alcohol | DAA | 20 ² | D | D | | Α | Yes | 1 | | WHITE | |
| ortho-Dibutyl phthalate | DPA | 34 | D | E | | Α | Yes | 1 | | | |
| Diethylbenzene | DEB | 32 | D | D | | Α | Yes | 1 | | | |
| Diethylene glycol | DEG | 40 ² | D | E | | Α | Yes | 1 | | | |
| Diisobutylene | DBL | 30 | D | С | | Α | Yes | 1 | | | |
| Diisobutyl ketone | DIK | 18 | D | D | | Α | Yes | 1 | | | |
| Diisopropylbenzene (all isomers) | DIX | 32 | D | E | | Α | Yes | 1 | | | |
| Dimethyl phthalate | DTL | 34 | D | E | - | Α | Yes | 1 | | | |
| Dioctyl phthalate | DOP | 34 | D | E | | Α | Yes | 1 | | | |
| Dipentene | DPN | 30 | D | D | | Α | Yes | 1 | | | |
| Diphenyl | DIL | 32 | D | D/E | | Α | Yes | 1 | | | |
| Diphenyl, Diphenyl ether mixtures | DDO | 33 | D | E | | Α | Yes | 1 | | | |
| Diphenyl ether | DPE | 41 | D | {E} | | Α | Yes | 1 | | | |
| Dipropylene glycol | DPG | 40 | D | E | | Α | Yes | 1 | | | |
| Distillates: Flashed feed stocks | DFF | 33 | D | E | | Α | Yes | 1 | | | |
| Distillates: Straight run | DSR | 33 | D | E | | Α | Yes | 1 | | | |
| Dodecene (all isomers) | DOZ | 30 | D | D | | Α | Yes | 1 | | | |
| Dodecylbenzene, see Alkyl(C9+)benzenes | DDB | 32 | D | E | | Α | Yes | 1 | | | |
| 2-Ethoxyethyl acetate | EEA | 34 | D | D | | Α | Yes | 1 | | | |
| Ethoxy triglycol (crude) | ETG | 40 | D | E | | Α | Yes | 1 | | | |



Certificate of Inspection

Cargo Authority Attachment

Vessel Name: KIRBY 28034 Official #: 1162194

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Shipyard: West Gulf Marine

| Cargo Identification | on | | | | | Conditions of Carriage | | | | | | |
|---|--------------|--------------------|----------------|-------|--------------|------------------------|-------------------|-----------------|---|-----------------|--|--|
| | | | | | | | Vapor | Recovery | | T | | |
| Name | Chem Code | Compat Group No | Sub Chapter | Grade | Hull Type | Tank Group | App'd (Y or N) | VCS Category | Special Requirements in 46 CFR 151 General and Mat'ls of | Insp. Period | | |
| Ethyl acetate | ETA | 34 | D | С | | Α | Yes | 1 | | | | |
| Ethyl acetoacetate | EAA | 34 | D | E | | Α | Yes | 1 | | | | |
| Ethyl alcohol | EAL | 20 ² | D | С | | Α | Yes | 1 | | | | |
| Ethylbenzene | ETB | 32 | D | С | | Α | Yes | 1 | | | | |
| Ethyl butanol | EBT | 20 | D | D | | Α | Yes | 1 | | | | |
| Ethyl tert-butyl ether | EBE | 41 | D | С | | Α | Yes | 1 | | | | |
| Ethyl butyrate | EBR | 34 | D | D | | Α | Yes | 1 | | | | |
| Ethyl cyclohexane | ECY | 31 | D | D | | Α | Yes | 1 | | | | |
| Ethylene glycol | EGL | 20 ² | D | Ε | | Α | Yes | 1 | | | | |
| Ethylene glycol butyl ether acetate | EMA | 34 | D | E | | Α | Yes | 1 | | | | |
| Ethylene glycol diacetate | EGY | 34 | D | E | | Α | Yes | 1 | | | | |
| Ethylene glycol phenyl ether | EPE | 40 | D | E | | Α | Yes | 1 | | | | |
| Ethyl-3-ethoxypropionate | EEP | 34 | D | D | | Α | Yes | 1 | | | | |
| 2-Ethylhexanol | EHX | 20 | D | E | | Α | Yes | 1 | | | | |
| Ethyl propionate | EPR | 34 | D | С | | Α | Yes | 1 | | | | |
| Ethyl toluene | ETE | 32 | D | D | | A | Yes | 1 | | | | |
| Formamide | FAM | 10 | D | E | | A | Yes | 1 | | | | |
| Furfuryl alcohol | FAL | 20 2 | D | E | | A | Yes | 1 | | | | |
| Gasoline blending stocks: Alkylates | GAK | 33 | D | A/C | | A | Yes | 1 | | | | |
| | GRF | 33 | D | A/C | | A | Yes | 1 | | | | |
| Gasoline blending stocks: Reformates | GAT | 33 | D | C | | A | Yes | 1 | | | | |
| Gasolines: Automotive (containing not over 4.23 grams lead per gallon) | | | | | | | | | | | | |
| Gasolines: Aviation (containing not over 4.86 grams of lead per gallon) | GAV | 33 | D | С | | Α | Yes | 1 | | | | |
| Gasolines: Casinghead (natural) | GCS | 33 | D | A/C | | Α | Yes | 1 | | | | |
| Gasolines: Polymer | GPL | 33 | D | A/C | | Α | Yes | 1 | | | | |
| Gasolines: Straight run | GSR | 33 | D | A/C | | Α | Yes | 1 | | | | |
| Glycerine | GCR | 20 ² | D | E | | Α | Yes | 1 | | | | |
| Heptane (all isomers), see Alkanes (C6-C9) (all isomers) | HMX | 31 | D | С | | Α | Yes | 1 | | | | |
| Heptanoic acid | HEP | 4 | D | E | | Α | Yes | 1 | | | | |
| Heptanol (all isomers) | HTX | 20 | D | D/E | | Α | Yes | 1 | | | | |
| Heptene (all isomers) | HPX | 30 | D | С | | Α | Yes | 2 | | | | |
| Heptyl acetate | HPE | 34 | D | E | | Α | Yes | 1 | | | | |
| Hexane (all isomers), see Alkanes (C6-C9) | HXS | 31 ² | D | B/C | | Α | Yes | 1 | | | | |
| Hexanoic acid | нхо | 4 | D | E | | Α | Yes | 1 | | | | |
| Hexanol | HXN | 20 | D | D | | Α | Yes | 1 | | | | |
| Hexene (all isomers) | HEX | 30 | D | С | | Α | Yes | 2 | | | | |
| Hexylene glycol | HXG | 20 | D | E | | Α | Yes | 1 | | | | |
| Isophorone | IPH | 18 ² | D | E | | Α | Yes | 1 | | | | |
| Jet fuel: JP-4 | JPF | 33 | D | E | | A | Yes | 1 | | | | |
| Jet fuel: JP-5 (kerosene, heavy) | JPV | 33 | D | D | | A | Yes | 1 | | | | |
| Kerosene | KRS | 33 | D | D | | A | Yes | 1 | | | | |
| Methyl acetate | MTT | 34 | D | D | | A | Yes | 1 | | | | |
| | MAL | 20 ² | D | C | | A | Yes | 1 | | | | |
| Methylamyl spototo | MAC | 34 | D | D | | A | Yes | 1 | | | | |
| Methylamyl alcehol | MAA | 20 | D | D | | A | Yes | 1 | | | | |
| Methylamyl alcohol | | | | | | | | 1 | | | | |
| Methyl amyl ketone | MAK | 18 | D | D | | A | Yes | | | | | |
| Methyl tert-butyl ether | MBE | 41 2 | D | C | | A | Yes | 1 | | | | |
| Methyl butyl ketone | MBK | 18 | D | С | | Α | Yes | 1 | | | | |



Certificate of Inspection

Cargo Authority Attachment

Vessel Name: KIRBY 28034 Official #: 1162194

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Shipyard: West Gulf Marine

| Cargo Identific | ation | | | | | Conditions of Carriage | | | | | | |
|---|------------|-----------------|-----|-------|------|------------------------|------------------|----------|--------------------------------|--------|--|--|
| | Chem | Compat | Sub | | Hull | Tank | Vapor F App'd | Recovery | Special Requirements in 46 CFR | Insp. | | |
| Name | Code | Group No | | Grade | Туре | Group | (Y or N) | Category | 151 General and Mat'ls of | Period | | |
| Methyl butyrate | MBU | 34 | D | С | | Α | Yes | 1 | | | | |
| Methyl ethyl ketone | MEK | 18 ² | D | С | | Α | Yes | 1 | | | | |
| Methyl heptyl ketone | MHK | 18 | D | D | | Α | Yes | 1 | | | | |
| Methyl isobutyl ketone | MIK | 18 ² | D | С | | Α | Yes | 1 | | | | |
| Methyl naphthalene (molten) | MNA | 32 | D | E | | Α | Yes | 1 | | | | |
| Mineral spirits | MNS | 33 | D | D | | Α | Yes | 1 | 7) | | | |
| Myrcene | MRE | 30 | D | D | | Α | Yes | 1 | | | | |
| Naphtha: Heavy | NAG | 33 | D | # | | Α | Yes | 1 | | | | |
| Naphtha: Petroleum | PTN | 33 | D | # | | Α | Yes | 1 | | | | |
| Naphtha: Solvent | NSV | 33 | D | D | | Α | Yes | 1 | | | | |
| Naphtha: Stoddard solvent | NSS | 33 | D | D | | Α | Yes | 1 | | | | |
| Naphtha: Varnish makers and painters (75%) | NVM | 33 | D | С | | Α | Yes | 1 | | | | |
| Nonane (all isomers), see Alkanes (C6-C9) | NAX | 31 | D | D | | Α | Yes | 1 | | | | |
| Nonene (all isomers) | NON | 30 | D | D | | Α | Yes | 2 | | | | |
| Nonyl alcohol (all isomers) | NNS | 20 ² | D | E | | Α | Yes | 1 | | | | |
| Nonyl phenol | NNP | 21 | D | E | | Α | Yes | 1 | | | | |
| Nonyl phenol poly(4+)ethoxylates | NPE | 40 | D | Е | | Α | 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 | D | E | | Α | Yes | 1 | | | | |
| Octene (all isomers) | OTX | 30 | D | C | | A | Yes | 2 | | | | |
| Oil, fuel: No. 2 | OTW | 33 | D | D/E | | A | Yes | 1 | | | | |
| Oil, fuel: No. 2-D | OTD | 33 | D | D | - | A | Yes | 1 | | | | |
| Oil, fuel: No. 4 | OFR | 33 | D | D/E | - | A | Yes | 1 | | | | |
| Oil, fuel: No. 5 | OFV | 33 | D | D/E | | A | Yes | 1 | | | | |
| Oil, fuel: No. 6 | OSX | 33 | D | E | | | Yes | 1 | | | | |
| Oil, misc: Crude | OIL | 33 | D | C/D | | A | Yes | 1 | | | | |
| Oil, misc: Diesel | ODS | 33 | D | D/E | | A | Yes | 1 | | | | |
| Oil, misc: Gas, high pour | OGP | 33 | D | E | | A | Yes | 1 | | | | |
| Oil, misc: Lubricating | OLB | 33 | D | E | | A | Yes | 1 | | | | |
| Oil, misc: Residual | ORL | 33 | D | E | | A | Yes | 1 | | | | |
| Oil, misc: Turbine | ОТВ | 33 | D | E | | A | Yes | 1 | | | | |
| Pentane (all isomers) | PTY | 31 | D | A | | A | Yes | 5 | | | | |
| Pentene (all isomers) | PTX | 30 | D | A | | A | Yes | 5 | | | | |
| n-Pentyl propionate | PPE | 34 | D | D | | A | Yes | 1 | | | | |
| alpha-Pinene | PIO | 30 | D | D | | A | Yes | 1 | | | | |
| beta-Pinene | PIP | 30 | D | D | | A | Yes | 1 | | | | |
| Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether | PAG | 40 | D | E | | A | Yes | 1 | | | | |
| Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether acetate | PAF | 34 | D | E | | A | Yes | 1 | | | | |
| Polybutene | PLB | 30 | D | E | | A | Yes | 1 | | | | |
| Polypropylene glycol | PGC | 40 | D | E | | A | Yes | 1 | | | | |
| | IAC | 34 | D | C | | A | Yes | 1 | | | | |
| iso-Propyl acetate | PAT | 34 | D | С | | A | Yes | 1 | | | | |
| n-Propyl acetate | IPA | 20 ² | D | С | | A | Yes | 1 | | | | |
| iso-Propyl alcohol | PAL | 20 ² | D | С | | A | | 1 | | | | |
| n-Propyl alcohol | PBY | | D | D | | | Yes | 1 | | | | |
| Propylbenzene (all isomers) | | 32 | D | D | | A | Yes | 1 | | | | |
| iso-Propylcyclohexane | IPX PPG | 20 2 | D | E | | | | | | | | |
| Propylene glycol | PPG | 20 - | U | _ | | Α | Yes | 1 | | | | |



Serial #: C1-1300016

02-Jan-13

Certificate of Inspection

Cargo Authority Attachment

Vessel Name: KIRBY 28034

Official #: 1162194

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Shipyard: West Gulf Marine

| Cargo Identific | ation | | | | | Conditions of Carriage | | | | | | |
|--|--------------|--------------------|----------------|-------|--------------|------------------------|-------------------|-----------------|--|-----------------|--|--|
| | | | | | | | Vapor F | Recovery | | T | | |
| Name | Chem Code | Compat Group No | Sub Chapter | Grade | Hull Type | Tank Group | App'd (Y or N) | VCS Category | Special Requirements in 46 CFR 151 General and Mat'ls of | Insp. Period | | |
| Propylene glycol methyl ether acetate | PGN | 34 | D | D | | Α | Yes | 1 | | | | |
| Propylene tetramer | PTT | 30 | D | D | | Α | Yes | 1 | | | | |
| Sulfolane | SFL | 39 | D | E | | Α | Yes | 1 | | | | |
| Tetraethylene glycol | TTG | 40 | D | E | | Α | Yes | 1 | | | | |
| Tetrahydronaphthalene | THN | 32 | D | E | | Α | Yes | 1 | | | | |
| Toluene | TOL | 32 | D | С | | Α | Yes | 1 | | | | |
| Tricresyl phosphate (less than 1% of the ortho isomer) | TCP | 34 | D | E | | Α | Yes | 1 | | | | |
| Triethylbenzene | TEB | 32 | D | E | | Α | Yes | 1 | | | | |
| Triethylene glycol | TEG | 40 | D | E | | Α | Yes | 1 | | | | |
| Triethyl phosphate | TPS | 34 | D | E | | Α | Yes | 1 | | | | |
| Trimethylbenzene (all isomers) | TRE | 32 | D | {D} | | Α | Yes | 1 | | | | |
| Trixylenyl phosphate | TRP | 34 | D | E | | Α | Yes | 1 | | | | |
| Undecene | UDC | 30 | D | D/E | | Α | Yes | 1 | | | | |
| 1-Undecyl alcohol | UND | 20 | D | E | | Α | Yes | 1 | | | | |
| Xylenes (ortho-, meta-, para-) | XLX | 32 | D | D | | Α | Yes | 1 | | | | |



Serial # C1-1300016

02-Jan-13

Certificate of Inspection

Cargo Authority Attachment

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Vessel Name: KIRRY 28034 Official #: 1162194

Shipyard: West Gulf Mari

Hull #: 144

Explanation of terms & symbols used in the Table:

Cargo Identification

Compatability Group No.

Note 1 Note 2

Subchapter O

Note 3

Note 4

Grade

Hull Type

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. Chem Code

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 carriage or potential compatibility problems, this product is not assigned to a specific group in the Compatibility Chart. For additional compatibility information, contact Commandant (CG-3PSO-3), U.S. Coast Guard, 2100 Second Street, SW, Washington, DC 20593-

Telephone (202) 372-1425.

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

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

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 that grade of cargo. A.B.C 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.

NA

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.

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

Category 1 (No additional VCS requirements above those for benzene, gasolines and crude oil) All requirements applying to the handling of oil and hazardous 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

(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. Category 3

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 (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. Category 7

The cargo has not been evaluated/classified for use in vapor control systems none