

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

Certification Date: 01 Jul 2020 01 Jul 2025 **Expiration Date:** 

Hailing Port MEMPHIS, TN UNITED STATES	Hull Material Steel	Horsey	power	Proputsion		
Place Bluft ASHLAND CITY, TN UNITED STATES	Delivery Date 14Aug2000	Keel Laid Date 05Jul2000	Gross Tons R-1619 I-	Net Tons R 1619 L	TWD	Length R-297 5 HO
KIRBY INLAND MARINE LP 55 WAUGH DR STE 1000 HOUSTON, TX 77007 UNITED STATES		1835 Char		77530		

O Chief Mates O Second Assistant Engineers **0 Radio Officers** O Second Mates O Third Assistant Engineers O Able Seamen O Third Mates O Licensed Engineers 0 Ordinary Seamen O Master First Class Pilot O Qualified Member Engineer 0 Deckhands O 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 plus Limited Coastwise---

Also, in fair weather only, coastwise, not more than twelve (12) miles from shore between St. Marks and Carrabelle, Florida.

This vessel has been granted a fresh water service examination interval in accordance with 46 CFR 31.10-21(a) (2). 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 and the cognizant OCMI notified in writing as soon as this change in status occurs.

This tank barge is participating in the Eighth & Ninth Coast Guard District's Tank Barge Streamlined Inspection

### \*\*\*SEE NEXT PAGE FOR ADDITIONAL CERTIFICATE INFORMATION\*\*\*

With this Inspection for Certification having been completed at Port Arthu, TX, UNITED STATES, the Officer in Charge, Marine Inspection, Marine Safety Unit Port Arthur certified the vessel, in all respects, is in conformity with the applicable vessel inspection laws and the rules and regulations prescribed thereunder. /Periodic/Re-Inspection

	Annual/Period	IK/Ke-m	Spection
Date	Zone	A/P/R	Signature
07 as 200	HOU	A	Dave Chatten
6-29-22	STL TBG IP	P	RENGWINGOUX
5-22-23	HOU	14-	Andrew Maharej
7/21/24	Hou	H	MAGINA

This certificate issued by J.J. ANBREW, CDR, USCG, By direction

Officer in Charge, Marine Inspection

Marine Safety Unit Port Arthur

Inspection Zone

OMB No. 2115-0517



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

Certification Date: 01 Jul 2020 Expiration Date: 01 Jul 2025

## Certificate of Inspection

Vessel Name: KIRBY 30073

Program (TBSIP). Inspection activities aboard this barge shall be conducted in accordance with 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	30Apr2030	01Jul2020	14Apr2010
Internal Structure	30Jun2025	01Jul2020	11Jun2015

#### --- 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

31396 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 Cargo Tank	809	13.600
#2 P/S Cargo Tank	781	13.600
#3 P/S Cargo Tank	809	13.600

#### \*Loading Constraints - Stability\*

Hull Type	Maximum Load (short tons)	Maximum Draft (ft/in)	Max Density (lbs/gal)	Route Description
П	3582	9ft 6in	13.60	LBS, R
III	4569	11ft 6in	13.60	LBS, R

#### \*Conditions Of Carriage\*

Only those specified hazardous cargoes named in the vessel's Cargo Authority Attachment (CAA), Serial No. C1-1504173 dated September 25, 2015, may be carried and then only in the tanks indicated.

Per 46 CFR 150.130, the Person in Charge of the vessel is responsible for ensuring that 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 compatibility group numbers from the "COMPAT GROUP NO" column listed in the vessel's CAA.

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

\*Vapor Control Authorization\*

Per 46 CFR 39, excluding part 39.4000, this vessel's vapor control system (VCS) has been inspected to the plans approved by Marine Safety Center letter Serial No. C2-0001427 dated May 22, 2000, and the list of authorized cargoes on the CAA, Serial C1-1504173 dated September 25, 2015 and found acceptable for collection of bulk liquid cargo vapors annotated with "Yes" in the CAA's VCS column.

Per 46 CFR 39.1017 and 39.5001(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\*



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The maximum density of cargo which may be filled to the tank top is 8.7 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.

Per 46 CFR 151.10-15(C)(2), the maximum tank weights listed above reflect uniform (within 5%)loading at the deepest draft allowed. When carrying Subchapter "O" cargoes at shallower drafts, the barge should always be loaded uniformly.

#### --- Inspection Status ---

### \*Cargo Tanks\*

	Internal Exam			External Exam	1	
Tank Id	Previous	Last	Next	Previous	Last	Next
#1 P/S Cargo Tank	11Jun2015	01Jul2020	31Jul2030	-	-	-
#2 P/S Cargo Tank	11Jun2015	01Jul2020	31Jul2030	-	·-	-
#3 P/S Cargo Tank	11Jun2015	01Jul2020	31Jul2030	-		-
			Hydro Test			
Tank Id	Safety Valves		Previous	Last	Next	
#1 P/S Cargo Tank	<del>-</del> -		-	-	-	
#2 P/S Cargo Tank	<u>=</u>		-	-	-	
#3 P/S Cargo Tank	-		-	-	-	

#### --- Conditional Portable Fire Extinguisher Requirements---

Required Only During Transfer of Cargo or Operation of Barge Machinery

#### --- Fire Fighting Equipment ---

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

\*Fire Extinguishers - Hand portable and semi-portable\*

Quantity

Class Type

\_

B-II

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



States Coast Guard Date

Serial #:

C1-1504173 25-Sep-15

## Certificate of Inspection

Cargo Authority Attachment

Vessel Name: Kirby 30073
Official #: 1100018

Shipyard: Trinity (Chetan)

Hull #: 4361

46 CFR 151 Tank	Group	Chara	cteris	tics													
Tank Group Information	Cargo I	dentificat	ion		Cargo		Tanks		Carg		Enviror		Fire	Special Require	ements		
Tnk Grp Tanks in Group	Density	Press.	Temp.	Hull Typ	Seq	T	Vent	Gauge	Pipe Class	Cont	Tanks	Handling Space	Protection Provided	General	Materials of Construction	Elec Haz	Temp Cont
A #1P/S, #2P/S, #3P/S	13.6	Atmos.	Amb.	H	1ii 2ii	Integral Gravity	PV	Closed	П	G-1	Vent N	NA	Portable	.50-60, .50-70(a), .50-73, .50-81(a), .50-81(b), .50-86,	55-1(b), (c), (e), (f), (h), 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 Identificatio		Conditions of Carriage								
							Vapor Re			
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. Period
Authorized Subchapter O Cargoes										
Acetonitrile	ATN	37	0	С	Ш	Α	Yes	3	No	G
Acrylonitrile	ACN	15 <sup>2</sup>	0	С	II	Α	Yes	4	.50-70(a), .55-1(e)	G
Adiponitrile	ADN	37	0	E	II	Α	Yes	1	No	G
Alkyl(C7-C9) nitrates	AKN	34 <sup>2</sup>	0	NA	Ш	Α	No	N/A	.50-81, .50-86	G
Aminoethylethanolamine	AEE	8	0	E	111	Α	Yes	1	.55-1(b)	G
Ammonium bisulfite solution (70% or less)	ABX	43 <sup>2</sup>	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	Ш	Α	No	N/A	.56-1(a), (b), (c), (f), (g)	G
Anthracene oil (Coal tar fraction)	AHO	33	0	NA	Н	Α	No	N/A	No	G
Benzene	BNZ	32	0	С	111	Α	Yes	1	.50-60	G
Benzene or hydrocarbon mixtures (having 10% Benzene or more)	внв	32 <sup>2</sup>	0	С	Ш	Α	Yes	1	.50-60	G
Benzene or hydrocarbon mixtures (containing Acetylene and 10% Benzene or more)	ВНА	32 <sup>2</sup>	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	111	Α	Yes	2	.50-70(a), .50-81(a), (b)	G
Butyl methacrylate	вмн	14	0	D	III	Α	Yes	2	.50-70(a), .50-81(a), (b)	G
Butyraldehyde (all isomers)	BAE	19	0	С	111	Α	Yes	1	.55-1(h)	G
Camphor oil (light)	CPO	18	0	D	11	Α	No	N/A	No	G
Carbon tetrachloride	СВТ	36	0	NA	III	Α	No	N/A	No	G
Chemical Oil (refined, containing phenolics)	COD	21	0	Е	11	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	111	Α	Yes	1	.50-73	G
Creosote	ccw	21 <sup>2</sup>	0	Е	Ш	Α	Yes	1	No	G
Cresols (all isomers)	CRS	21	0	E	111	Α	Yes	1	No	G
Cresylate spent caustic	CSC	5	0	NA	Ш	Α	No	N/A	.50-73, .55-1(b)	G
Cresylic acid tar	CRX	21	0	E	Ш	Α	Yes	1	.55-1(f)	G
Crotonaldehyde	CTA	19 <sup>2</sup>	0	С	11	Α	Yes	4	.55-1(h)	G
Crude hydrocarbon feedstock (containing Butyraldehydes and Ethylpropyl acrolein)	CHG		0	С	Ш	Α	Yes	1	No	G
Cyclohexanone	ССН	18	0	D	Ш	Α	Yes	1	.56-1(a), (b)	G
Cyclohexanone, Cyclohexanol mixture	CYX	18 <sup>2</sup>	0	E	Ш	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	Ш	Α	Yes	1	.50-60, .56-1(b)	G
iso-Decyl acrylate	IAI	14	0	E	III	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

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

<sup>2.</sup> 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.

<sup>3.</sup> 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.



C1-1504173 Dated:

25-Sep-15

## Certificate of Inspection

### Cargo Authority Attachment

Vessel Name: Kirby 30073 Official #: 1100018

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Shipyard: Trinity (Chetan)

Cargo Identification	1						(	Condi	tions of Carriage	
	T						Vapor R	ecovery		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
1,1-Dichloroethane	DCH	36	0	С	Ш	Α	Yes	1	No	G
2,2'-Dichloroethyl ether	DEE	41	0	D	11	Α	Yes	1	.55-1(f)	G
Dichloromethane	DCM	36	0	NA	III	Α	No	N/A	No	G
2,4-Dichlorophenoxyacetic acid, diethanolamine salt solution	DDE	43	0	E	Ш	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 <sup>2</sup>	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	II	Α	Yes	4	No	G
Dichloropropene, Dichloropropane mixtures	DMX	15	0	С	11	Α	Yes	1	No	G
Diethanolamine	DEA	8	0	E	III	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	Ш	Α	Yes	1	.55-1(c)	G
Diisobutylamine	DBU	7	0	D	III	A	Yes	3	.55-1(c)	G
Diisopropanolamine	DIP	8	0	E	III	A	Yes	1	.55-1(c)	
Diisopropylamine	DIA	7	0	c	11	Α	Yes	3	.55-1(c)	G
N,N-Dimethylacetamide	DAC	10	0	E	111	A	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		A	Yes	1	.55-1(e)	G
1,4-Dioxane	DOX	41	0	C		A	Yes	1	No	G
Di-n-propylamine	DNA	7	0	c	<u>''</u>		Yes	3	.55-1(c)	
	DOT		0	E	 III	A	No	N/A	.56-1(b)	G
Dodecyldimethylamine, Tetradecyldimethylamine mixture	DOS	43	0	#	11	A	No	N/A	No	
Dodecyl diphenyl ether disulfonate solution	EEG	40	0						No	G
EE Glycol Ether Mixture	MEA	8	-0	E		Α	No	N/A	.55-1(c)	
Ethanolamine				C		A	Yes	1	.50-70(a), .50-81(a), (b)	
Ethyl acrylate	EAC	14	0			Α	Yes	2		G
Ethylamine solution (72% or less)	EAN	7	0	A		A	No	N/A	.55-1(b)	
N-Ethylbutylamine	EBA	7	0	D		A	Yes	3	.55-1(b)	G
N-Ethylcyclohexylamine	ECC	7	0	D	III	Α .	Yes	1		
Ethylene cyanohydrin	ETC	20	0	E		Α .	Yes	1	No SE 44.	G
Ethylenediamine	EDA	7 2	0	D		Α	Yes	1	.55-1(c)	G
Ethylene dichloride	EDC	36 <sup>2</sup>	0	С	111	A	Yes	1	No	G
Ethylene glycol hexyl ether	EGH	40	0	E	111	Α	No	N/A	No	G
Ethylene glycol monoalkyl ethers	EGC	40	0	D/E	111	Α	Yes	1	No	G
Ethylene glycol propyl ether	EGP	40	0	E	111	Α	Yes	1	No	G
2-Ethylhexyl acrylate	EAI	14	0	E	III	Α	Yes	2	.50-70(a), .50-81(a), (b)	G
Ethyl methacrylate	ETM	14	0	D/E	111	Α	Yes	2	.50-70(a)	G
2-Ethyl-3-propylacrolein	EPA	19 <sup>2</sup>	0	E	III	Α	Yes	1	No	G
Formaldehyde solution (37% to 50%)	FMS	19 <sup>2</sup>	0	D/E	111	A	Yes	1	.55-1(h)	G
Furfural	FFA	19	0	D	III	Α	Yes	1	.55-1(h)	G
Glutaraldehyde solution (50% or less)	GTA	19	0	NA	111	Α	No	N/A	No	G
Hexamethylenediamine solution	НМС	7	0	E	111	Α	Yes	1	.55-1(c)	G
Hexamethyleneimine	НМІ	7	0	С	11	Α	Yes	1	.56-1(b), (c)	G
Hydrocarbon 5-9	HFN		0	С	Ш	A	Yes	11	.50-70(a), .50-81(a), (b)	G
Isoprene	IPR	30	0	Α	Ш	Α	No	N/A	.50-70(a), .50-81(a), (b)	G
Isoprene, Pentadiene mixture	IPN		0	В	111	Α	No	N/A	.50-70(a), .55-1(c)	G
Kraft pulping liquors (free alkali content 3% or more)(including: Black, Green, or White liquor)	KPL	5	0	NA	III	Α	No	N/A	.50-73, .56-1(a), (c), (g)	G



Serial#: C

25-Sep-15

## Certificate of Inspection

### Cargo Authority Attachment

Vessel Name: Kirby 30073
Official #: 1100018

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Shipyard: Trinity (Chetan)

Cargo Identification	n							Condi	tions of Carriage	
							Vapor R			
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
Mesityl oxide	MSO	18 <sup>2</sup>	0	D	III	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	Ш	Α	Yes	1	No	G
Methyl diethanolamine	MDE	8	0	E	Ш	Α	Yes	1	.56-1(b), (c)	G
2-Methyl-5-ethylpyridine	MEP	9	0	Е	Ш	Α	Yes	1	.55-1(e)	G
Methyl methacrylate	MMM	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	111	Α	Yes	2	.50-70(a), .50-81(a), (b)	G
Morpholine	MPL	7 2	0	D	III	Α	Yes	1	.55-1(c)	G
Nitroethane	NTE	42	0	D	П	Α	No	N/A	.50-81, .56-1(b)	G
1- or 2-Nitropropane	NPM	42	0	D	Ш	Α	Yes	1	.50-81	G
1,3-Pentadiene	PDE	30	0	Α	111	Α	No	N/A	.50-70(a), .50-81	G
Perchloroethylene	PER	36	0	NA	III	Α	No	N/A	No	G
Polyethylene polyamines	PEB	7 2	0 .	E	111	Α	Yes	1	.55-1(e)	G
Polymethylene polyphenyl isocyanate	PPI	12	0	Е	II	Α	Yes	1	.55-1(e)	G
iso-Propanolamine	MPA	8	0	Е	111	Α	Yes	1	.55-1(c)	G
Propanolamine (iso-, n-)	PAX	8	0	E	Ш	Α	Yes	1	.56-1(b), (c)	G
iso-Propylamine	IPP	7	0	Α	Н	Α	No	N/A	.55-1(c)	G
iso-Propyl ether	IPE	41	0	С	Ш	Α	Yes	1	.50-70(a)	G
Pyridine	PRD	9	0	С	111	Α	Yes	1	.55-1(e)	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	III	Α	No	N/A	.50-73	G
Sodium hypochlorite solution (20% or less)	SHQ	5	0	NA	111	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	III	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	III	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		Α	No	N/A	.50-73, .55-1(b)	
Styrene (crude)	STX	30	0	D	111	A	Yes	2	No	G
Styrene monomer	STY	30	0		 	A	Yes	2	.50-70(a), .50-81(a), (b)	
1,1,2,2-Tetrachloroethane	TEC	36	0	NA	 III	A	No	N/A	No	
Tetraethylenepentamine	TTP		-0	E	 III		Yes	1	.55-1(c)	G
Tetrahydrofuran	THF	41	0	c	 III	A	Yes	1	.50-70(b)	G
Toluenediamine	TDA	9	0	E	11	A	No	N/A	.50-73, .56-1(a), (b), (c), (g)	G
1,2,4-Trichlorobenzene	TCB	36	0	E	<u>''</u>		Yes	1	No	G
1,1,2-Trichloroethane	TCM	36	0	NA	 III	A	Yes	1	.50-73, .56-1(a)	G
Trichloroethylene	TCL	36 <sup>2</sup>	0	NA	 III		Yes	1	No	G
	TCN	36	0	E	11	A	Yes	3	.50-73, .56-1(a)	G
1,2,3-Trichloropropane Triethanolamine	TEA	8 2	0	E	 III	A	Yes	1	.55-1(b)	G
Triethylamine	TEN	7	0	C	 II	A	Yes	3	.55-1(e)	G
Triethylenetetramine	TET	7 2	0	E	<u>''</u>		Yes	1	.55-1(b)	
Triphenylborane (10% or less), caustic soda solution	TPB	5	0	NA			No	N/A	.56-1(a), (b), (c)	
Trisodium phosphate solution	TSP	5	0	NA	111		No	N/A	.50-73, .56-1(a), (c).	
Urea, Ammonium nitrate solution (containing more than 2% NH3)	UAS	6	0	NA	111		No	N/A	.56-1(b)	
Valeraldehyde (all isomers)	VAK	19	0	D	111		Yes	1	No	G
Vanillin black liquor (free alkali content, 3% or more).	VBL	5	0	NA			No	N/A	.50-73, .56-1(a), (c), (g)	
Vinyl acetate	VAM	13	0	C	111		Yes	2	.50-70(a), .50-81(a), (b)	
Vinyl neodecanate	VND	13	0	E			No	N/A	.50-70(a), .50-81(a), (b)	
	VNT	13	0		111		Yes	2	.50-70(a), .50-81, .56-1(a), (b), (c), (	G
Vinyltoluene	VIVI	13			mt .		100		-1-7, , (-7, (-7, (-7, (-7, (-7,	



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# Certificate of Inspection

### Cargo Authority Attachment

Vessel Name: Kirby 30073 Official #: 1100018

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Shipyard: Trinity (Chetan)

Chem Code  ACT ACP APU AEB AEC AAI BAL BFX  BAX IAL BAN BAS BAT BPH BUE CLS CHX	Compat Group No  18 <sup>2</sup> 18 20 20 34 20 21 20 34 20 <sup>2</sup> 20 <sup>2</sup> 20 <sup>2</sup> 20 <sup>2</sup> 34 32 22	D D D D D D D D D D D D D D D D D D D	C E E E D D E E C C C E	Hull Type	Tank Group  A A A A A A A A A A A A A A A A A A	App'd	1 1 1 1 1 1 1 1 1 1	Special Requirements in 46 CFR 151 General and Mattls of	Insp. Period
ACT ACP APU AEB AEC AAI BAL BFX  BAX IAL BAN BAS BAT BPH BUE CLS	18 <sup>2</sup> 18 20 20 34 20 21 20 34 20 <sup>2</sup> 20 <sup>2</sup> 20 <sup>2</sup> 34 32	D D D D D D D D D D D D D D D D D D D	C E E D D E E D D C C C E		A A A A A A A A A A A A A A A A A A A	Yes	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
ACT ACP APU AEB AEC AAI BAL BFX  BAX IAL BAN BAS BAT BPH BUE CLS	18 20 20 34 20 21 20 2 20 2 20 2 20 2 34 32	D D D D D D D D D D D D D D D D D D D	E E D D D E D C C C E		A A A A A A A A A	Yes	1 1 1 1 1 1 1 1 1 1 1 1		
ACP APU AEB AEC AAI BAL BFX  BAX IAL BAN BAS BAT BPH BUE CLS	18 20 20 34 20 21 20 2 20 2 20 2 20 2 34 32	D D D D D D D D D D D D D D D D D D D	E E D D D E D C C C E		A A A A A A A A A	Yes	1 1 1 1 1 1 1 1 1 1 1 1		
APU AEB AEC AAI BAL BFX BAX IAL BAN BAS BAT BPH BUE CLS	20 20 34 20 21 20 34 20 <sup>2</sup> 20 <sup>2</sup> 20 <sup>2</sup> 20 <sup>2</sup> 34 32	D D D D D D D D D D D D D D D D D D D	E E D D D E D C C C		A A A A A A A A	Yes	1 1 1 1 1 1 1 1 1 1 1 1		
AEB AEC AAI BAL BFX BAX IAL BAN BAS BAT BPH BUE CLS	20 34 20 21 20 34 20 <sup>2</sup> 20 <sup>2</sup> 20 <sup>2</sup> 20 <sup>2</sup> 34 32	D D D D D D D D D D D D D D D D D D D	E D D D C C C E		A A A A A A	Yes	1 1 1 1 1 1 1 1 1 1		
AEC AAI BAL BFX BAX IAL BAN BAS BAT BPH BUE CLS	34 20 21 20 34 20 <sup>2</sup> 20 <sup>2</sup> 20 <sup>2</sup> 20 <sup>2</sup> 34 32	D D D D D D D D D D D D D D D D	D E E D C C C E		A A A A A A	Yes Yes Yes Yes Yes Yes Yes Yes Yes	1 1 1 1 1 1 1		
BAX BAX IAL BAN BAS BAT BPH BUE CLS	20 21 20 34 20 <sup>2</sup> 20 <sup>2</sup> 20 <sup>2</sup> 20 <sup>2</sup> 34 32	D D D D D D D D D D D	D E E D D C C C E		A A A A A	Yes Yes Yes Yes Yes Yes Yes Yes	1 1 1 1 1 1 1		
BAL BFX BAX IAL BAN BAS BAT BPH BUE CLS	21 20 34 20 <sup>2</sup> 20 <sup>2</sup> 20 <sup>2</sup> 20 <sup>2</sup> 34 32	D D D D D D D D D	E  D  D  C  C  C		A A A A	Yes Yes Yes Yes Yes Yes Yes	1 1 1 1 1 1		
BAX IAL BAN BAS BAT BPH BUE CLS	20 34 20 <sup>2</sup> 20 <sup>2</sup> 20 <sup>2</sup> 20 <sup>2</sup> 34 32	D D D D D D D	D D C C C E		A A A A	Yes Yes Yes Yes Yes Yes	1 1 1 1 1		
BAX IAL BAN BAS BAT BPH BUE CLS	34 20 <sup>2</sup> 20 <sup>2</sup> 20 <sup>2</sup> 20 <sup>2</sup> 34 32	D D D D D	D D C C C		A A A	Yes Yes Yes Yes	1 1 1 1		
BAN BAS BAT BPH BUE CLS	20 <sup>2</sup> 20 <sup>2</sup> 20 <sup>2</sup> 20 <sup>2</sup> 20 <sup>2</sup> 34 32	D D D D	D C C E		A A A	Yes Yes Yes	1 1 1		
BAN BAS BAT BPH BUE CLS	20 <sup>2</sup> 20 <sup>2</sup> 20 <sup>2</sup> 34 32	D D D	D C C		A A	Yes Yes	1		
BAS BAT BPH BUE CLS	20 <sup>2</sup> 20 <sup>2</sup> 34 32	D D	C C E		Α	Yes	1		
BAT BPH BUE CLS	20 <sup>2</sup> 34 32	D D	C E						
BPH BUE CLS	34 32	D	E		Α	Yes			
BUE CLS	32						1		
CLS		D			Α	Yes	1		
	22		D		Α	Yes	1		
CHX		D	E		Α	Yes	1		
and the second of the	31	D	С		Α	Yes	1		
CHN	20	D	E		Α	Yes	1		
CPD	30	D	D/E		Α	Yes	2		
CMP	32	D	D		Α	Yes	1		
IDA	19	D	E		Α	Yes	1		
DAL	19	D	Ε		Α	Yes	1		
DCE	30	D	D		Α	Yes	1		
DAX	20 <sup>2</sup>	D	E		Α	Yes	1		
DBZ	32	D	E		Α	Yes	1		
DAA	20 <sup>2</sup>	D	D		Α	Yes	1		
DPA	34	D	E		Α	Yes	1		
DEB	32	D	D		Α	Yes	1		
DEG	40 <sup>2</sup>	D	E		Α	Yes	1		
DBL	30	D	С		Α	Yes	1		
DIK	18	D	D		Α	Yes	1		
DIX	32	D	E		Α	Yes	1		
DTL	34	D	E		Α	Yes	11		
DOP	34	D	E		Α	Yes	1		
DPN	30	D	D		Α	Yes			
DIL	32	D	D/E		Α	Yes			
DDO									
DPE	41	D			Α	Yes			
DPG									
DFF						No. Co.			
	CHN CPD CMP IDA DAL DCE DAX DBZ DAA DPA DEB DEG DBL DIK DIX DTL DOP DPN DIL DDO DPE DPG	CHN 20 CPD 30 CPD 30 CMP 32 IDA 19 DAL 19 DCE 30 DAX 20 2 DBZ 32 DAA 20 2 DPA 34 DEB 32 DEG 40 2 DBL 30 DIK 18 DIX 32 DTL 34 DDP 35 DDD 32 DDD 32 DDB 32 EEA 34 ETG 40 ETA 34	CHN 20 D CPD 30 D CMP 32 D IDA 19 D DAL 19 D DCE 30 D DAX 20 2 D DAX 20 2 D DAA 20 2 D DAA 20 2 D DAA 34 D DEB 32 D DEG 40 2 D DIK 18 D DIK 18 D DIX 32 D DIX 34 D DPR 34 D DPR 30 D DPR 34 D DPR 30 D DRR 30 D DR	CHN 20 D E CPD 30 D D/E CMP 32 D D IDA 19 D E DAL 19 D E DAL 20 D D DAX 32 D E DAX 32 D E DAX 32 D D DAX 32 D D DAX 32 D D DAX 34 D E DAX 35 D D DAX 36 D DAX 37 D E DAX 37 D E DAX 38 D E DAX 38 D D DAX 38 D DAX 38 D DAX 38 D DAX 38 D D DAX 38 D D DAX 38 D D D D D D D D D D D D D D D D D D D	CHN 20 D E  CPD 30 D D/E  CMP 32 D D  IDA 19 D E  DAL 19 D E  DAL 19 D E  DAX 20 D D  DAX 32 D E  DAX 32 D E  DAX 32 D D  DAX 32 D D  DAX 32 D D  DAX 32 D D  DAX 34 D E  DAX 35 D D  DAX 36 D  DAX 37 D E  DAX 38 D D  DAX 38 D  DA	CHN 20 D E A CPD 30 D D/E A CMP 32 D D A IDA 19 D E A DAL 19 D E A DAL 19 D E A DAL 20 2 D E A DAL 20 2 D E A DAL 20 2 D D A DAL 20 32 D D A DAL 34 D E A DAL 30 D C A DAL 30 D C A DAL 30 D C A DAL 31 D D A DAL 32 D D A DAL 32 D D A DAL 32 D D A DAL 33 D E A DAL 33 D E A DAL 34 D E A DAL 35 D B DAL 36 D D/E A DAL 36 D D/E A DAL 37 D D/E A DAL 38 D D D A DAL 39 D D D A DAL 39 D D D A DAL 30 D D D A DAL 30 D D D A DAL 31 D D D A DAL 32 D D/E A DAL 31 D E A DAL 32 D D D A DAL 32 D D D A DAL 33 D E A DAL 34 D E A DAL 35 D E A DAL 35 D E A DAL 36 D D D A DAL 37 D E A DAL 37 D E A DAL 38 D E A DAL 38 D E A DAL 39 D D D D D A DAL 39 D D D D A DAL 39 D D D D D DAL 39 D D DAL 39 D D DAL 39 D DA	CHN 20 D E A Yes CPD 30 D D/E A Yes CMP 32 D D A Yes IDA 19 D E A Yes DAL 19 D E A Yes DCE 30 D D A Yes DCE 32 D E A Yes DCC 32 D E A Yes DCC 34 D E A Yes DCC 35 D D A Yes DCC 36 D D A Yes DCC 40 C D E A Yes DCC A Yes DCC 40 C A Yes DCC 40 C C A Yes DCC 40 C C A Yes DCC 50 C A Yes DCC 60 C C C C C C C C C C C C C C C C C	CHN 20 D E A Yes 1  CPD 30 D D/E A Yes 2  CMP 32 D D A Yes 1  IDA 19 D E A Yes 1  DAL 19 D E A Yes 1  DCE 30 D D A Yes 1  DAX 20 2 D E A Yes 1  DBZ 32 D D A Yes 1  DBZ 32 D E A Yes 1  DBA 20 2 D D A Yes 1  DBA 20 2 D D A Yes 1  DBB 32 D D A Yes 1  DBB 32 D D A Yes 1  DBB 32 D D A Yes 1  DBB 30 D C A Yes 1  DBB 30 D C A Yes 1  DBB 30 D C A Yes 1  DBL 30 D A Yes 1  DDL 32 D B A Yes 1  DDD 34 D E A Yes 1  DDD 34 D E A Yes 1  DDD 34 D E A Yes 1  DDD 35 D A Yes 1  DDD 36 A Yes 1  DDD 37 D A Yes 1  DDD 38 D B A Yes 1  DDD 39 D A Yes 1  DDD 39 D A Yes 1  DDD 30 D A Yes 1  DDD 31 D A Yes 1  DDD 32 D B A Yes 1  DDD 33 D E A Yes 1  DDD 34 Pes 1  DDD 35 D B A Yes 1  DDD 36 A Yes 1  DDD 37 D B A Yes 1  DDD 38 D B A Yes 1  DDD 39 D B A Yes 1  EEA 34 D D A Yes 1	CHN 20 D E A Yes 1  CPD 30 D D/E A Yes 2  CMP 32 D D A Yes 1  DA 19 D E A Yes 1  DAL 19 D E A Yes 1  DAL 19 D E A Yes 1  DAX 20 2 D E A Yes 1  DAX 20 2 D E A Yes 1  DAX 20 2 D E A Yes 1  DAA 20 2 D D A Yes 1  DBE 32 D D A Yes 1  DBE 32 D D A Yes 1  DBE 32 D D A Yes 1  DBIK 18 D D A Yes 1  DIK 18 D D A Yes 1  DTL 34 D E A Yes 1  DPN 30 D D A Yes 1  DPN 30 D D A Yes 1  DDD A Yes 1



Certificate of Inspection

### Cargo Authority Attachment

Vessel Name: **Kirby 30073**Official #: 1100018

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Shipyard: Trinity (Chetan)

Dated:

25-Sep-15

Cargo Identificatio	n							Condi	tions of Carriage	
	Chem	Compat	Sub		Hull	Tank	App'd	Recovery VCS	Special Requirements in 46 CFR	Insp.
Name	Code	Group No	Chapter	Grade	Туре	Group	(Y or N)	Category	151 General and Mat'ls of	Period
Ethyl acetoacetate	EAA	34	D	Е		Α	Yes	1		
Ethyl alcohol	EAL	20 <sup>2</sup>	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 <sup>2</sup>	D	Е		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		Α	Yes	1		
Formamide	FAM	10	D	E		Α	Yes	1		
Furfuryl alcohol	FAL	20 <sup>2</sup>	D	E		Α	Yes	1		
Gasoline blending stocks: Alkylates	GAK	33	D	A/C		Α	Yes	1		
Gasoline blending stocks: Reformates	GRF	33	D	A/C		Α	Yes	1		
Gasolines: Automotive (containing not over 4.23 grams lead per gallon)	GAT	33	D	С		Α	Yes	1		
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 <sup>2</sup>	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	Е		Α	Yes	1		
Hexane (all isomers), see Alkanes (C6-C9)	HXS	31 <sup>2</sup>	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 <sup>2</sup>	D	E		Α	Yes	1		-
Jet fuel: JP-4	JPF	33	D	E		Α	Yes	1		
Jet fuel: JP-5 (kerosene, heavy)	JPV	33	D	D		Α	Yes	1		
Kerosene	KRS	33	D	D		Α	Yes	1		
Methyl acetate	MTT	34	D	D	9	Α	Yes	1		
Methyl alcohol	MAL	20 <sup>2</sup>	D	С		Α	Yes	1		
Methylamyl acetate	MAC	34	D	D		Α	Yes	1		
Methylamyl alcohol	MAA	20	D	D		Α	Yes	1		
Methyl amyl ketone	MAK	18	D	D ·		Α	Yes	1		
Methyl tert-butyl ether	MBE	41 2	D	С		Α	Yes	1		
Methyl butyl ketone	MBK	18	D	С		Α	Yes	1		



C1-1504173

25-Sep-15

## Certificate of Inspection

### Cargo Authority Attachment

Vessel Name: Kirby 30073 Official #: 1100018

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Shipyard: Trinity (Chetan)

Cargo Identification							Conditions of Carriage					
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	Vapor i App'd (Y or N)	Recovery VCS Category	Special Requirements in 46 CFR 151 General and Mat'ls of	Insp. Period		
Methyl ethyl ketone	MEK	18 <sup>2</sup>	D	С		Α	Yes	1				
Methyl heptyl ketone	MHK	18	D	D		Α	Yes	1				
Methyl isobutyl ketone	MIK	18 <sup>2</sup>	D	С		Α	Yes	1				
Methyl naphthalene (molten)	MNA	32	D	E		Α	Yes	1				
Mineral spirits	MNS	33	D	D		Α	Yes	1				
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	n n			
Nonene (all isomers)	NON	30	D	D		Α	Yes	2				
Nonyl alcohol (all isomers)	NNS	20 <sup>2</sup>	D	E		Α	Yes	1				
Nonyl phenol	NNP	21	D	E		Α	Yes	1				
Nonyl phenol poly(4+)ethoxylates	NPE	40	D	E		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 <sup>2</sup>	D	E		Α	Yes	1				
Octene (all isomers)	OTX	30	D	c		A	Yes	2				
Oil, fuel: No. 2	OTW	33		D/E		A	Yes	1				
Oil, fuel: No. 2-D	OTD	33	D	D		A	Yes	1				
Oil, fuel: No. 4	OFR	33		D/E		Α	Yes	1				
Oil, fuel: No. 5	OFV	33		D/E		Α	Yes	1				
Oil, fuel: No. 6	OSX	33	D	E		A	Yes	1				
Oil, misc: Crude	OIL	33		A/D		Α	Yes	1				
	ODS	33		D/E		A	Yes	1				
Oil, misc: Diesel	OGP	33	D	E		A	Yes	1				
Oil, misc: Gas, high pour	OLB	33		E		A	Yes	1				
Oil, misc: Lubricating	ORL	33	D D	E		A	Yes	1				
Oil, misc: Residual	OTB	33		E			Yes	1				
Oil, misc: Turbine	PPE	34	D	D		A	Yes	1				
n-Pentyl propionate	PIO	30		D D			Yes	1				
alpha-Pinene				D			Yes	1				
beta-Pinene	PIP	30				Α						
Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether	PAG	40	D	E		A	Yes	1	- Andrew Control of the Control of t			
Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether acetate	PAF	34	D	E		A	Yes	1				
Polybutene	PLB	30	D	E		Α	Yes	1				
Polypropylene glycol	PGC	40	D	E C		A	Yes	1				
iso-Propyl acetate	IAC	34	D			A	Yes	1				
n-Propyl acetate	PAT	34	D	С		A	Yes	1				
iso-Propyl alcohol	IPA	20 2	D	С		A	Yes	11				
n-Propyl alcohol	PAL	20 2		<u>C</u>		A	Yes	11				
Propylbenzene (all isomers)	PBY	32	D	D		A	Yes	1				
iso-Propylcyclohexane	IPX	31	D	D		A	Yes	1				
Propylene glycol	PPG	20 <sup>2</sup>		E		A	Yes					
Propylene glycol methyl ether acetate	PGN	34	D	D		Α .	Yes					
Propylene tetramer	PTT	30	D	D		Α	Yes	1				
Sulfolane	SFL	39	D	E		Α	Yes	1				



25-Sep-15

## Certificate of Inspection

Cargo Authority Attachment

Vessel Name: Kirby 30073 Official #: 1100018

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Shipyard: Trinity (Chetan)

Cargo Identification							Conditions of Carriage					
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	App'd	Recovery VCS Category	Special Requirements in 46 CFR 151 General and Mat'ls of	Insp. Period		
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				



Certificate of Inspection

C1-1504173

Dated: 25-Sep-15

Cargo Authority Attachment

Vessel Name: Kirby 30073 Official #: 1100018

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Shipyard: Trinity (Chetan

Hull #: 4361

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

Cargo Identification

Name Chem Code

Compatability Group No

Note 1

Note 2

Subchapter Subchapter D

Note 3

Grade

A. B. C

Note 4

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.

Certain mixtures of cargoes may not have a CHRIS Code assigned.

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

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

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.

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-

Flammable liquid cargoes, as defined in 46 CFR 30-10.22

Telephone (202) 372-1425

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 NA

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 Recoven 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 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 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

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.

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.

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