



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

**Certification Date: 30 May 2024**  
**Expiration Date: 30 May 2029**

# Certificate of Inspection

For ships on international voyages this certificate fulfills the requirements of SOLAS 74 as amended, regulation V/14, for a SAFE MANNING DOCUMENT.

Vessel Name	Official Number	IMO Number	Call Sign	Service
KIRBY 10563	1088427			Tank Barge

Hailing Port	Hull Material	Horsepower	Propulsion
WILMINGTON, DE	Steel		
UNITED STATES			

Place Built	Delivery Date	Keel Laid Date	Gross Tons	Net Tons	DWT	Length
JEFFERSONVILLE, IN	17Jan2000	22Oct1999	R-716	R-716		R-195.0
			1	1		10

Owner	Operator
KIRBY INLAND MARINE LP 55 WAUGH DR STE 1000 HOUSTON, TX 77007 UNITED STATES	KIRBY INLAND MARINE, LP 18350 MARKET STREET CHANNELVIEW, TX 77530 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 Masters	0 Licensed Mates	0 Chief Engineers	0 Oilers
0 Chief Mates	0 First Class Pilots	0 First Assistant Engineers	
0 Second Mates	0 Radio Officers	0 Second Assistant Engineers	
0 Third Mates	0 Able Seamen	0 Third Assistant Engineers	
0 Master First Class Pilot	0 Ordinary Seamen	0 Licensed Engineers	
0 Mate First Class Pilots	0 Deckhands	0 Qualified Member Engineer	

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 vessel has been granted a fresh water service examination interval per 46 CFR 31.10-21(a)(2). If this vessel is operated in salt water more than 6 months in any 12 month period, the vessel must be inspected using salt water intervals per 46 CFR 31.10-21(a)(1) and the cognizant OCMI notified in writing as soon as this change in status occurs.

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

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

With this Inspection for Certification having been completed at Port Arthur, 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.

Annual/Periodic/Re-Inspection				This certificate issued by: <i>L. L. Woodman</i> L. L. WOODMAN, CDR, USCG, By direction Officer in Charge, Marine Inspection Marine Safety Unit Port Arthur Inspection Zone
Date	Zone	A/P/R	Signature	



# Certificate of Inspection

Vessel Name: KIRBY 10563

### ---Hull Exams---

Exam Type	Next Exam	Last Exam	Prior Exam
DryDock	31Mar2029	27Mar2019	18Feb2009
Internal Structure	31May2029	30May2024	27Mar2019

### --- 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
10667	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	595	13.600
2 AND 3	607	13.600

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

Hull Type	Maximum Load (short tons)	Maximum Draft (ft/in)	Max Density (lbs/gal)	Route Description
II	1495	9ft 3in	13.60	
III	1723	10ft 4in	13.60	
II	1495	9ft 3in	13.60	
III	1723	10ft 4in	13.60	

#### \*Conditions Of Carriage\*

Only those specified hazardous cargoes named in the vessel's Cargo Authority Attachment (CAA), serial # C1-2401239, dated 28 Mar 2024, 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 is 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\*

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 # C1-2401239, dated 28 Mar 2024, and found acceptable for collection of bulk liquid cargo vapors annotated with "Yes" in the CAA's VCS column.

#### \*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 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 8.74 lbs/gal. Cargoes with higher densities, up to



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Vessel Name: KIRBY 10563

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\*

Tank Id	Internal Exam			External Exam		
	Previous	Last	Next	Previous	Last	Next
1	18Feb2009	27Mar2019	31Mar2029	-	-	-
2 AND 3	18Feb2009	27Mar2019	31Mar2029	-	-	-

#### Hydro Test

Tank Id	Safety Valves	Previous	Last	Next
1	-	-	-	-
2 AND 3	-	-	-	-

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

Required Only During Transfer of Cargo or Operation of Barge Machinery

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

Number of Fireman Outfits - 0

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

Quantity	Class Type
2	40-B

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



# Certificate of Inspection

## Cargo Authority Attachment

Official #: 1088427

Shipyard: Jeffboat

Hull #: N/A

### 46 CFR 151 Tank Group Characteristics

Tank Group Information		Cargo Identification			Tanks			Cargo Transfer		Environmental Control		Fire Protection Provided	Special Requirements					
Tnk Grp	Tanks in Group	Density	Press	Temp	Hull Type	Cargo Seg Tank	Type	Vent	Gauge	Pipe Class	Cont	Tanks	Handling Space	General	Materials of Construction	Elec Haz	Temp Cont	
A	#1, #2, #3	13.6	Atmos	Amb	II	1ii	Integral Gravity	PV	Closed	II	G-1	NR	NA	Portable	40-1(f)(1), 50-60, 50-70(a), 50-70(b), 50-73, 50-81(a), 50-81(b)	55-1(b), (c), (e), (f), (h), (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.  
 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.

### List of Authorized Cargoes

Name	Cargo Identification							Conditions of Carriage				
	CAS Number	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	Vapor Recovery App'd (Y or N)	VCS Category	Special Requirements in 46 CFR 151 General and Mat'l's of	Insp. Period	

#### Authorized Subchapter O Cargoes

Bis(2-ethylhexyl) terephthalate	N/A	PEC	34	D/O	E	II	A	No	N/A	No	G
Olefins (C13+, all isomers)	85535-87-1	OFZ	30	D/O	E	II	A	Yes	1		G
Acetonitrile	75-05-8	<del>ATN</del>	37	O	C	III	A	Yes	3	No	G
Acrylonitrile	N/A	ACN	15 <sup>2</sup>	O	C	II	A	Yes	4	50-70(a), 55-1(e)	G
Adiponitrile	111-69-3	<del>ADN</del>	37	O	E	II	A	Yes	1	No	G
Alkyl (C7-C9) nitrates	20633-12-9*	<del>AKN</del>	34 <sup>2</sup>	O	NA	III	A	Yes	1	50-61, 50-86	G
Aminoethyl ethanolamine	111-41-1	<del>AEE</del>	8	O	E	III	A	Yes	1	55-1(b)	G
Ammonium bisulfite solution (70% or less)	10192-30-0	<del>ABX</del>	43 <sup>2</sup>	O	NA	III	A	No	N/A	50-73, 56-1(a), (b), (c)	G
Ammonium hydroxide (28% or less NH3)	1336-21-6	<del>AMH</del>	6	O	NA	III	A	No	N/A	56-1(a), (b), (c), (f), (g)	G
Anthracene oil (Coal tar fraction)	65996-91-0	<del>ABO</del>	33	O	NA	II	A	No	N/A	No	G
Benzene	71-43-2	<del>BZ</del>	32	O	C	III	A	Yes	1	50-60	G
Benzene, C10-16 alkyl derivatives	N/A	<del>BEM</del>	32	O	D	III	A	No	N/A		G
Benzene and mixtures having 10% Benzene or more	N/A	<del>BHB</del>	32 <sup>2</sup>	O	C	III	A	Yes	1	50-60	G
Benzene or hydrocarbon mixtures (containing Acetylene and 10% Benzene or more)	N/A	<del>BHA</del>	32 <sup>2</sup>	O	C	III	A	Yes	1	50-60, 56-1(b), (d), (f), (g)	G
Benzene, Toluene, Xylene mixtures (10% Benzene or more)	N/A	<del>BTX</del>	32	O	B/C	III	A	Yes	1	50-60	G
Butyl acrylate (all isomers)	141-32-2	<del>BAR</del>	14	O	D	III	A	Yes	2	50-70(a), 50-81(a), (b)	G
Butyl methacrylate	97-88-1	<del>BMH</del>	14	O	D	III	A	Yes	2	50-70(e), 50-81(a), (b)	G
Butyraldehyde (all isomers)	123-72-8	<del>BKE</del>	19	O	C	III	A	Yes	1	55-1(h)	G
Camphor oil (light)	8008-51-3	<del>CPD</del>	18	O	D	II	A	No	N/A	No	G
Carbon tetrachloride	56-23-5	<del>CBT</del>	36	O	NA	III	A	Yes	3	No	G
Caustic potash solution	1310-58-3	<del>CPB</del>	5 <sup>2</sup>	O	NA	III	A	No	N/A	50-73, 55-1(j)	G



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## Cargo Authority Attachment

Official #: 1088427

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Shipyard: Jeffboat

Hull #: N/A

Cargo Identification							Conditions of Carriage				
Name	CAS Number	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	Vapor Recovery		Special Requirements in 46 CFR 151 General and Mat'ls of Construction	Insp. Period
								App'd (Y or N)	VCS Category		
Caustic soda solution	1310-73-2	<del>CS5</del>	5 <sup>2</sup>	O	NA	III	A	No	N/A	.50-73, .55-1(d)	G
Chlorobenzene	108-90-7	<del>CBS</del>	36	O	D	III	A	Yes	1	No	G
Chloroform	67-66-3	<del>CBF</del>	36	O	NA	III	A	Yes	3	No	G
Coal tar naphtha solvent	8030-30-6	<del>NCT</del>	33	O	D	III	A	Yes	1	.50-73	G
Creosote	N/A	<del>CGW</del>	21 <sup>2</sup>	O	E	III	A	Yes	1	No	G
Cresols (all isomers)	1319-77-3	<del>CRS</del>	21	O	E	III	A	Yes	1	No	G
Cresylate spent caustic	N/A	<del>CSE</del>	5	O	NA	III	A	No	N/A	.50-73, .55-1(b)	G
Cresylic acid tar	N/A	<del>CBX</del>	21	O	E	III	A	Yes	1	.55-1(f)	G
Crotonaldehyde	123-73-9	<del>CTA</del>	19 <sup>2</sup>	O	C	II	A	Yes	4	.55-1(h)	G
Crude hydrocarbon feedstock (containing Butyraldehydes and Ethylpropyl acrolein)	N/A	<del>CBG</del>	19 <sup>2</sup>	O	C	III	A	Yes	1	No	G
Cyclohexanone	108-94-1	<del>OCH</del>	18	O	D	III	A	Yes	1	.56-1(a), (b)	G
Cyclohexanone, Cyclohexanol mixture	N/A	<del>CYX</del>	18 <sup>2</sup>	O	E	III	A	Yes	1	.56-1 (b)	G
Cyclohexylamine	N/A	<del>CHA</del>	7	O	D	III	A	Yes	1	.56-1(a), (b), (c), (g)	G
Cyclopentadiene, Styrene, Benzene mixture	N/A	<del>CSE</del>	30	O	D	III	A	Yes	1	.50-60, .56-1(b)	G
iso-Decyl acrylate	N/A	<del>IAI</del>	14	O	E	III	A	Yes	2	.50-70(a), .50-81(a), (b), .55-1(c)	G
Dichlorobenzene (all isomers)	25321-22-6	<del>DBX</del>	36	O	E	III	A	Yes	3	.56-1(a), (b)	G
1,1-Dichloroethane	75-34-3	<del>DCH</del>	36	O	C	III	A	Yes	1	No	G
2,2'-Dichloroethyl ether	N/A	<del>DEE</del>	41	O	D	II	A	Yes	1	.55-1(f)	G
Dichloromethane	75-09-2	<del>DCM</del>	36	O	NA	III	A	No	N/A	No	G
2,4-Dichlorophenoxyacetic acid, diethanolamine salt solution	5742-19-8	<del>DDE</del>	43	O	E	III	A	No	N/A	.56-1(a), (b), (c), (g)	G
2,4-Dichlorophenoxyacetic acid, dimethylamine salt solution	2008-39-1	<del>DIAD</del>	0 <sup>1,2</sup>	O	A	III	A	No	N/A	.56-1(a), (b), (c), (g)	G
2,4-Dichlorophenoxyacetic acid, triisopropanolamine salt solution	34075-45-1	<del>DTI</del>	43 <sup>2</sup>	O	E	III	A	No	N/A	.56-1(a), (b), (c), (g)	G
1,1-Dichloropropane	78-99-9	<del>DPB</del>	36	O	C	III	A	Yes	3	No	G
1,2-Dichloropropane	78-87-5	<del>DPP</del>	36	O	C	III	A	Yes	3	No	G
1,3-Dichloropropane	142-28-9	<del>DPC</del>	36	O	C	III	A	Yes	3	No	G
1,3-Dichloropropene	N/A	<del>DPU</del>	15	O	D	II	A	Yes	4	No	G
Dichloropropene, Dichloropropane mixtures	8003-19-8	<del>DMX</del>	15	O	C	II	A	Yes	1	No	G
Diethanolamine	111-42-2	<del>DEA</del>	8	O	E	III	A	Yes	1	.55-1(c)	G
Diethylamine	109-89-7	<del>DEN</del>	7	O	C	III	A	Yes	3	.55-1(c)	G
Diethylenetriamine	111-40-0	<del>DET</del>	7 <sup>2</sup>	O	E	III	A	Yes	1	.55-1(c)	G

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# Certificate of Inspection

## Cargo Authority Attachment

Official #: 1088427

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Shipyard: Jeffboat

Hull #: N/A

Cargo Identification							Conditions of Carriage				
Name	CAS Number	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	Vapor Recovery		Special Requirements in 46 CFR 151 General and Mat'ls of Construction	Insp. Period
								App'd (Y or N)	VCS Category		
Diisobutylamine	110-96-3	<del>DBU</del>	7	O	D	III	A	Yes	3	55-1(c)	G
Diisopropanolamine	110-97-4	<del>DIP</del>	8	O	E	III	A	Yes	1	55-1(c)	G
Diisopropylamine	108-18-9	<del>DIA</del>	7	O	C	II	A	Yes	3	55-1(c)	G
N,N-Dimethylacetamide	127-19-5	<del>DAC</del>	10	O	E	III	A	Yes	3	56-1(b)	G
Dimethylethanolamine	108-01-0	<del>DME</del>	8	O	D	III	A	Yes	1	56-1(b), (c)	G
Dimethylformamide	68-12-2	<del>DMF</del>	10	O	D	III	A	Yes	1	55-1(e)	G
Di-n-propylamine	142-84-7	<del>DNA</del>	7	O	C	II	A	Yes	3	55-1(c)	G
1-Dodecene	N/A	<del>QDC</del>	30	O	E	II	A	No	N/A	No	G
Dodecyldimethylamine, Tetradecyldimethylamine mixture	112-18-5*	<del>DDT</del>	7	O	E	III	A	No	N/A	56-1(b)	G
Dodecyl diphenyl ether disulfonate solution	N/A	<del>DDG</del>	43	O	#	II	A	No	N/A	No	G
EE Glycol Ether Mixture	N/A	<del>EEG</del>	40	O	D	III	A	No	N/A	No	G
Ethanolamine	141-43-5	<del>MEA</del>	8	O	E	III	A	Yes	1	55-1(c)	G
Ethyl acrylate	140-88-5	<del>EAC</del>	14	O	C	III	A	Yes	2	50-70(a), 50-81(a), (b)	G
Ethylamine solutions (72% or less)	75-04-7	<del>EAN</del>	7	O	A	II	A	No	N/A	55-1(b)	G
N-Ethylbutylamine	13360-63-9	<del>EBA</del>	7	O	D	III	A	Yes	3	55-1(b)	G
N-Ethylcyclohexylamine	5459-93-8	<del>EGC</del>	7	O	D	III	A	Yes	1	55-1(b)	G
Ethylene cyanohydrin	109-78-4	<del>ETC</del>	20	O	E	III	A	Yes	1	No	G
Ethylenediamine	107-15-3	<del>EDA</del>	7 <sup>2</sup>	O	D	III	A	Yes	1	55-1(c)	G
Ethylene dichloride	107-06-2	<del>EDC</del>	36 <sup>2</sup>	O	C	III	A	Yes	1	No	G
Ethylene glycol hexyl ether	112-25-4	<del>EGH</del>	40	O	E	III	A	No	N/A	No	G
Ethylene glycol monoalkyl ethers	N/A	<del>EGM</del>	40	O	D/E	III	A	Yes	1	No	G
Ethylene glycol propyl ether	2807-30-9	<del>EGP</del>	40	O	E	III	A	Yes	1	No	G
2-Ethylhexyl acrylate	103-11-7	<del>EBH</del>	14	O	E	III	A	Yes	2	50-70(a), 50-81(a), (b)	G
Ethyl methacrylate	97-63-2	<del>ETM</del>	14	O	D/E	III	A	Yes	2	50-70(a)	G
2-Ethyl-3-propylacrolein	645-62-5	<del>EBA</del>	19 <sup>2</sup>	O	E	III	A	Yes	1	No	G
Formaldehyde solution (37% to 50%)	50-00-0	<del>FMS</del>	19 <sup>2</sup>	O	D/E	III	A	Yes	1	55-1(h)	G
Furfural	98-01-1	<del>FEA</del>	19	O	D	III	A	Yes	1	55-1(h)	G
Glutaraldehyde solutions (50% or less)	111-30-8	<del>GFA</del>	19	O	NA	III	A	No	N/A	No	G
Hexamethylenediamine solution	124-09-4	<del>HMD</del>	7	O	E	III	A	Yes	1	55-1(c)	G
Hexamethyleneimine	111-49-9	<del>HMI</del>	7	O	C	II	A	Yes	1	56-1(b), (c)	G
Isoprene	78-79-5	<del>IBR</del>	30	O	A	III	A	No	N/A	50-70(a), 50-81(a), (b)	G
Isoprene, Pentadiene mixture	N/A	<del>IPN</del>	30	O	B	III	A	No	N/A	50-70(a), 55-1(c)	G

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Shipyard: Jeffboat

Hull #: N/A

Cargo Identification							Conditions of Carriage				
Name	CAS Number	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	Vapor Recovery		Special Requirements in 46 CFR 151 General and Marfs of Construction	Insp Period
								App'd (Y or N)	VCS Category		
Kraft pulping liquors (free alkali content 3% or more)(including: Black, Green, or White liquor)	68131-33-9	<del>KBL</del>	5	O	NA	III	A	No	N/A	.50-73, .56-1(a), (c), (g)	G
Mesityl oxide	141-79-7	<del>MSO</del>	18 <sup>2</sup>	O	D	III	A	Yes	1	No	G
Methyl acrylate	96-33-3	<del>MAM</del>	14	O	C	III	A	Yes	2	.50-70(a), .50-81(a), (b)	G
Methylcyclopentadiene dimer	26472-00-4	<del>MCK</del>	30	O	C	III	A	Yes	1	No	G
Methyl diethanolamine	105-59-9	<del>MDE</del>	8	O	E	III	A	Yes	1	.56-1(b), (c)	G
2-Methyl-5-ethyl pyridine	104-90-5	<del>MEP</del>	9	O	E	III	A	Yes	1	.55-1(e)	G
Methyl methacrylate	80-62-6	<del>MMM</del>	14	O	C	III	A	Yes	2	.50-70(a), .50-81(a), (b)	G
2-Methylpyridine	109-06-8	<del>MMP</del>	9	O	D	III	A	Yes	3	.55-1(c)	G
alpha-Methylstyrene	98-83-9	<del>MSR</del>	30	O	D	III	A	Yes	2	.50-70(a), .50-81(a), (b)	G
Morpholine	110-91-8	<del>MBL</del>	7 <sup>2</sup>	O	D	III	A	Yes	1	.55-1(c)	G
Nitroethane	79-24-3	<del>NVE</del>	42	O	D	II	A	No	N/A	.50-81, .56-1(b)	G
1- or 2-Nitropropane	108-03-2	<del>NBP</del>	42	O	D	III	A	Yes	1	.50-81	G
Corn oil	8001-30-7	OCO	34	O	E	II	A	No	N/A	.50-73	G
1,3-Pentadiene	1574-41-0	<del>PDE</del>	30	O	A	III	A	No	N/A	.50-70(a), .50-81	G
Perchloroethylene	127-18-4	<del>PER</del>	36	O	NA	III	A	No	N/A	No	G
Polyethylene polyamines	109-89-7	<del>PEB</del>	7 <sup>2</sup>	O	E	III	A	Yes	1	.55-1(e)	G
Potassium chloride solution (brine)	N/A	PCSB	0	O	NA	III	A	No	N/A		G
iso-Propanolamine	78-96-6	<del>MPA</del>	8	O	E	III	A	Yes	1	.55-1(c)	G
Propanolamine (iso-, n-)	N/A	<del>PAA</del>	8	O	E	III	A	Yes	1	.56-1(b), (c)	G
Isopropylamine	75-31-0	<del>IRP</del>	7	O	A	II	A	No	N/A	.55-1(c)	G
Pyridine	110-86-1	<del>PRD</del>	9	O	C	III	A	Yes	1	.55-1(e)	G
Solution containing ammonium thiosulfate (≤60%), ammonium sulfate (≤5%) and ammonium sulfite (≤5%) (≤6%) and ammonium sulfite (≤5%)		ATAS	0	O	NA	III	A	No	N/A		G
Sodium aluminate solution (45% or less)	11138-49-1	<del>SAL</del>	5	O	NA	III	A	No	N/A	.50-73, .56-1(a), (b), (c)	G
Sodium chlorate solution (50% or less)	7775-09	<del>SDP</del>	0 <sup>1,2</sup>	O	NA	III	A	No	N/A	.50-73	G
Sodium hypochlorite solution (20% or less)	7681-52-9	<del>SHO</del>	5	O	NA	III	A	No	N/A	.50-73, .56-1(a), (b)	G
Sodium Methylate (30% or less) in Methyl Alcohol Mixture	N/A	SMS	20	O	D	III	A	No	N/A	No	4 yr
Sodium sulfide, hydrosulfide solution (H2S 15 ppm or less)	N/A	<del>SSH</del>	0 <sup>1,2</sup>	O	NA	III	A	Yes	1	.50-73, .55-1(b)	G
Sodium sulfide, hydrosulfide solution (H2S greater than 15 ppm but less than 200 ppm)	N/A	<del>SSH</del>	0 <sup>1,2</sup>	O	NA	III	A	No	N/A	.50-73, .55-1(b)	G

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# Certificate of Inspection

## Cargo Authority Attachment

Official #: 1088427

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Shipyard: Jeffboat

Hull #: N/A

Cargo Identification							Conditions of Carriage				
Name	CAS Number	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	Vapor Recovery		Special Requirements in 46 CFR 151 General and Malls of Construction	Insp. Period
								App'd (Y or N)	VCS Category		
Sodium sulfide, hydrosulfide solution (H2S greater than 200 ppm)	N/A	SSJ	0 <sup>1,2</sup>	O	NA	II	A	No	N/A	50-73, 55-1(b)	G
Spent Caustic Soda Solution (containing up to 0.1% Benzene)	N/A	SCSS	5	O	NA	III	A	No	N/A	50-60, 50-73, 55-1(f)	G
Styrene monomer	100-42-5	STY	30	O	D	III	A	Yes	2	50-70(a), 50-81(a), (b)	G
Tetrachloroethane	79-34-5	TEC	36	O	NA	III	A	No	N/A	No	G
Tetraethylene pentamine	112-57-2	TEP	7	O	E	III	A	Yes	1	55-1(c)	G
Tetrahydrofuran	109-99-9	THF	41	O	C	III	A	Yes	1	50-70(b)	G
1,2,4-Trichlorobenzene	120-82-1	TCB	36	O	E	III	A	Yes	1	No	G
1,1,2-Trichloroethane	79-00-5	TCM	36	O	NA	III	A	Yes	1	50-73, 56-1(a)	G
Trichloroethylene	79-01-6	TCL	36 <sup>2</sup>	O	NA	III	A	Yes	1	No	G
1,2,3-Trichloropropane	96-18-4	TCN	36	O	E	II	A	Yes	3	50-73, 56-1(a)	G
Triethanolamine	102-71-6	TEA	8 <sup>2</sup>	O	E	III	A	Yes	1	55-1(b)	G
Triethylamine	121-44-8	TEA	7	O	C	II	A	Yes	3	55-1(e)	G
Triethylenetetramine	112-24-3	TEP	7 <sup>2</sup>	O	E	III	A	Yes	1	55-1(b)	G
Triphenylborane (10% or less), caustic soda solution	960-71-4	TPB	5	O	NA	III	A	No	N/A	56-1(a), (b), (c)	G
Trisodium phosphate solution	10101-89-0	TSP	5	O	NA	III	A	No	N/A	50-73, 56-1(a), (c)	G
Urea, Ammonium nitrate solution (containing more than 2% NH3)	N/A	UAS	6	O	NA	III	A	No	N/A	56-1(b)	G
Vanillin black liquor (free alkali content, 3% or more)	68514-06-7	VBL	5	O	NA	III	A	No	N/A	50-73, 56-1(a), (c), (g)	G
Vinyl acetate	108-05-4	VAM	13	O	C	III	A	Yes	2	50-70(a), 50-81(a), (b)	G
Vinyl neodecanoate	51000-52-3	VND	13	O	E	III	A	No	N/A	50-70(a), 50-81(a), (b)	G
Vinyltoluene	25013-15-4	VNT	13	O	D	III	A	Yes	2	50-70(a), 50-81, 56-1(a), (b), (c), (	G

### Subchapter D Cargoes Authorized for Vapor Control

Acetone	67-64-1	ACT	18 <sup>2</sup>	D	C		A	Yes	1
Acetophenone	98-86-2	ACP	18	D	E		A	Yes	1
Alcohol (C12-C16) poly(20+) ethoxylates	68551-12-2*	APW	20	D	E		A	Yes	1
Alcohol (C6-C17) (secondary) poly(3-6) ethoxylates	84133-50-6*	AEA	20	D	E		A	Yes	1
Alcohol (C6-C17) (secondary) poly(7-12) ethoxylates	84133-50-6*	AEB	20	D	E		A	Yes	1
Alcohols (C13+)	112-70-9*	ALY	20	D	E		A	Yes	1
Amyl acetate (all isomers)	628-63-7	AEC	34	D	D		A	Yes	1
Amyl alcohol (iso-, n-, sec-, primary)	N/A	AAI	20	D	D		A	Yes	1

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## Cargo Authority Attachment

Shipyards: Jeffboat

Hull #: N/A

Official #: 1088427

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Cargo Identification							Conditions of Carriage				
Name	CAS Number	Chem Code	Compal Group No	Sub Chapter	Grade	Hull Type	Tank Group	Vapor Recovery		Special Requirements in 48 CFR 151 General and Mat'ls of Construction	Insp Period
								App'd (Y or N)	VCS Category		
Benzyl acetate	140-11-4	BZE	34	D	E		A	Yes	1		
Benzyl alcohol	100-51-6	BAL	21	D	E		A	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)	N/A	BFY	20	D	E		A	Yes	1		
Butyl acetate (all isomers)	123-86-4	BAX	34	D	D		A	Yes	1		
Isobutyl alcohol	78-83-1	IAL	20 <sup>2</sup>	D	D		A	Yes	1		
Butyl alcohol (n-)	N/A	BAN	20 <sup>2</sup>	D	D		A	Yes	1		
Butyl alcohol (sec-)	N/A	BAS	20 <sup>2</sup>	D	C		A	Yes	1		
tert-Butyl Alcohol	N/A	BAT	20 <sup>2</sup>	D	C		A	Yes	1		
Butyl benzyl phthalate	85-68-7	BPH	34	D	E		A	Yes	1		
Butyl toluene	1595-05-7	BUE	32	D	D		A	Yes	1		
Caprolactam solutions	105-60-2	CLS	22	D	E		A	Yes	1		
Cycloheptane	291-64-5	CYE	31	D	C		A	Yes	1		
Cyclohexane	110-82-7	CHX	31	D	C		A	Yes	1		
Cyclohexanol	108-93-0	CHN	20	D	E		A	Yes	1		
Cyclohexyl acetate	622-45-7	CYC	34	D	D		A	Yes	1		
1,3-Cyclopentadiene dimer (molten)	7313-32-8	CPD	30	D	D/E		A	Yes	2		
Cyclopentane	287-92-3	CYP	31	D	B		A	Yes	1		
p-Cymene	99-87-6	CMP	32	D	D		A	Yes	1		
iso-Decaldehyde	N/A	IDA	19	D	E		A	Yes	1		
n-Decaldehyde	N/A	DAL	19	D	E		A	Yes	1		
Decanoic acid	334-48-5	DCO	4	D	#		A	Yes	1		
Decene	872-05-9	DCE	30	D	D		A	Yes	1		
Decyl alcohol (all isomers)	85566-12-7	DAX	20 <sup>2</sup>	D	E		A	Yes	1		
n-Decylbenzene, see Alkyl(C9+)benzenes	104-72-3	DBZ	32	D	E		A	Yes	1		
Diacetone alcohol	123-42-2	DAA	20 <sup>2</sup>	D	D		A	Yes	1		
Dibutyl phthalate	84-74-2	DPA	34	D	E		A	Yes	1		
Diethylbenzene	25340-17-4	DEB	32	D	D		A	Yes	1		
Diethylene glycol	111-46-6	DEG	40 <sup>2</sup>	D	E		A	Yes	1		
Diisobutylene	25167-70-8	DBL	30	D	C		A	Yes	1		
Diisobutyl ketone	108-83-8	DIK	18	D	D		A	Yes	1		
Diisopropylbenzene (all isomers)	25321-09-9	DIX	32	D	E		A	Yes	1		
Dimethyl phthalate	131-11-3	DTL	34	D	E		A	Yes	1		

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Shipyard: Jeffboat

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Cargo Identification							Conditions of Carriage				
Name	CAS Number	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Vapor Recovery		Special Requirements in 46 CFR 151 General and Mat'l's of Construction	Insp Period	
							Tank Group	App'd (Y or N)			VCS Category
Diethyl phthalate	117-84-0	DOP	34	D	E	A	Yes	1			
Dipentene	138-86-3	DPN	30	D	D	A	Yes	1			
Diphenyl	92-52-4	DIL	32	D	D/E	A	Yes	1			
Diphenyl, Diphenyl ether mixtures	8004-13-5	DDO	33	D	E	A	Yes	1			
Diphenyl ether	101-84-8	DPE	41	D	(E)	A	Yes	1			
Dipropylene glycol	25265-71-8	DPG	40	D	E	A	Yes	1			
Distillates: Flashed feed stocks	8002-05-9	OFF	33	D	E	A	Yes	1			
Distillates: Straight run	68814-87-9	DSR	33	D	E	A	Yes	1			
Dodecene (all isomers)	25378-22-7	DOZ	30	D	D	A	Yes	1			
Dodecylbenzene	123-01-3	ODB	32	D	E	A	Yes	1			
2-Ethoxyethyl acetate	111-15-9	EEA	34	D	D	A	Yes	1			
Ethoxy triglycol (crude)	112-50-5	ETG	40	D	E	A	Yes	1			
Ethyl acetate	141-78-6	ETA	34	D	C	A	Yes	1			
Ethyl acetoacetate	141-97-9	EAA	34	D	E	A	Yes	1			
Ethyl alcohol	64-17-5	EAL	20 <sup>2</sup>	D	C	A	Yes	1			
Ethylbenzene	100-41-4	ETB	32	D	C	A	Yes	1			
Ethyl butanol	97-95-0	EBT	20	D	D	A	Yes	1			
Ethyl tert-butyl ether	637-92-3	EBE	41	D	C	A	Yes	1			
Ethyl butyrate	105-54-4	EBR	34	D	D	A	Yes	1			
Ethyl cyclohexane	1678-91-7	ECY	31	D	D	A	Yes	1			
Ethylene glycol	107-21-1	EGL	20 <sup>2</sup>	D	E	A	Yes	1			
Ethylene glycol butyl ether acetate	112-07-2	EMA	34	D	E	A	Yes	1			
Ethylene glycol diacetate	111-55-7	EGY	34	D	E	A	Yes	1			
Ethylene glycol phenyl ether	122-99-6	EPE	40	D	E	A	Yes	1			
Ethyl-3-ethoxypropionate	763-69-9	EEP	34	D	D	A	Yes	1			
2-Ethylhexanol	104-76-7	EHX	20	D	E	A	Yes	1			
Ethyl propionate	105-37-3	EPR	34	D	C	A	Yes	1			
Ethyl toluene	25550-14-5	ETE	32	D	D	A	Yes	1			
Formamide	75-12-7	FAM	10	D	E	A	Yes	1			
Furfuryl alcohol	98-00-0	FAL	20 <sup>2</sup>	D	E	A	Yes	1			
Gasoline blending stocks: Alkylates	64741-64-6	GAK	33	D	C	A	Yes	1			
Gasoline blending stocks: Reformates	8006-61-9	GRF	33	D	C	A	Yes	1			
Gasolines: Automotive (containing not over 4 23 grams lead per gallon)	86290-81-5	GAT	33	D	A/C	A	Yes	1			

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Cargo Identification							Conditions of Carriage				
Name	CAS Number	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	Vapor Recovery App'd (Y or N)	VCS Category	Special Requirements in 46 CFR 151 General and Mats of Construction	Insp. Period
Gasolines: Aviation (containing not over 4.86 grams of lead per gallon)	N/A	GAV	33	D	C		A	Yes	1		
Gasolines: Casinghead (natural)	68425-31-0	GCS	33	D	A/C		A	Yes	1		
Gasolines: Polymer	8006-61-9	GPL	33	D	C		A	Yes	1		
Gasolines: Straight run	68606-11-1	GSR	33	D	A/C		A	Yes	1		
Glycerine	56-81-5	GCR	20 <sup>2</sup>	D	E		A	Yes	1		
Heptane (all isomers)	142-82-5	HMX	31	D	C		A	Yes	1		
n-Heptanoic acid	111-14-8	HEN	4	D	E		A	Yes	1		
Heptanol (all isomers)	111-70-6	HTX	20	D	D/E		A	Yes	1		
Heptene (all isomers)	592-76-7	HPX	30	D	C		A	Yes	2		
Heptyl acetate	112-06-1	HPE	34	D	E		A	Yes	1		
Hexane (all isomers)	110-54-3	HXS	31 <sup>2</sup>	D	B/C		A	Yes	1		
Hexanoic acid	142-62-1	HXO	4	D	E		A	Yes	1		
Hexanol	N/A	HXN	20	D	D		A	Yes	1		
Hexene (all isomers)	592-41-6	HEX	30	D	C		A	Yes	2		
Hexylene glycol	107-41-5	HXG	20	D	E		A	Yes	1		
isophorone	78-59-1	IPH	18 <sup>2</sup>	D	E		A	Yes	1		
Jet fuel: JP-4	50815-00-4	JPF	33	D	E		A	Yes	1		
Jet fuel: JP-5 (kerosene, heavy)	8008-20-6	JPV	33	D	D		A	Yes	1		
Kerosene	8008-20-6	KRS	33	D	D		A	Yes	1		
Lauric acid	143-07-7	LRA	34	D	#		A	Yes	1		
Methyl acetate	79-20-9	MTT	34	D	D		A	Yes	1		
Methyl alcohol	67-56-1	MAL	20 <sup>2</sup>	D	C		A	Yes	1		
Methylamyl acetate	7789-99-3	MAC	34	D	D		A	Yes	1		
Methylamyl alcohol	108-11-2	MAA	20	D	D		A	Yes	1		
Methyl amyl ketone	110-43-0	MAK	18	D	D		A	Yes	1		
Methyl tert-butyl ether	1634-04-4	MBE	41 <sup>2</sup>	D	C		A	Yes	1		
Methyl butyl ketone	N/A	MBK	18	D	C		A	Yes	1		
Methyl butyrate	623-42-7	MBU	34	D	C		A	Yes	1		
Methylcyclohexane	591-47-9	MCY	31	D	C		A	Yes	1		
Methyl ethyl ketone	78-93-3	MEK	18 <sup>2</sup>	D	C		A	Yes	1		
Methyl heptyl ketone	821-55-6	MHK	18	D	D		A	Yes	1		
2-Methyl-2-hydroxy-3-butyne	115-19-5	MHB	20	D	C		A	Yes	1		
Methyl isobutyl ketone	108-10-1	MIK	18 <sup>2</sup>	D	C		A	Yes	1		

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Shipyard: Jeffboat

Hull #: N/A

Cargo Identification							Conditions of Carriage				
Name	CAS Number	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	Vapor Recovery		Special Requirements in 46 CFR 151 General and Mat'ls of Construction	Insp Period
								App'd (Y or N)	VCS Category		
Mineral spirits	64475-85-0	MNS	33	D	D		A	Yes	1		
Myrcene	123-35-3	MRE	30	D	D		A	Yes	1		
Naphtha Heavy	64742-94-5	NAG	33	D	#		A	Yes	1		
Naphtha Petroleum	64742-94-5	PTN	33	D	#		A	Yes	1		
Naphtha Solvent	64742-94-5	NSV	33	D	D		A	Yes	1		
Naphtha Stoddard solvent	8052-41-3	NSS	33	D	D		A	Yes	1		
Naphtha Varnish makers and painters (75%)	8032-32-4	NVM	33	D	C		A	Yes	1		
Neodecanoic acid	26896-20-8	NEA	4	D	E		A	Yes	1		
Nonane (all isomers)	111-84-2	NAX	31	D	D		A	Yes	1		
Nonene (all isomers)	N/A	NON	30	D	D		A	Yes	2		
Nonyl alcohol (all isomers)	143-08-8	NNS	20 <sup>2</sup>	D	E		A	Yes	1		
Nonyl phenol	25154-52-3	NNP	21	D	E		A	Yes	1		
Nonyl phenol poly(4+)ethoxylates	9016-45-9	NPE	40	D	E		A	Yes	1		
Octane (all isomers)	111-65-9	OAX	31	D	C		A	Yes	1		
Octanoic acid (all isomers)	124-07-2	OAY	4	D	E		A	Yes	1		
Octanol (all isomers)	111-87-5	OCX	20 <sup>2</sup>	D	E		A	Yes	1		
Octene (all isomers)	111-66-0	OTX	30	D	C		A	Yes	2		
Oil, fuel No. 2	68476-30-2	OTW	33	D	D/E		A	Yes	1		
Oil, fuel No. 2-D	N/A	OTD	33	D	D		A	Yes	1		
Oil, fuel No. 4	68553-00-4	OFR	33	D	D/E		A	Yes	1		
Oil, fuel No. 5	70892-11-4	OFV	33	D	D/E		A	Yes	1		
Oil, fuel No. 6	68553-00-4	OSX	33	D	E		A	Yes	1		
Oil, misc Crude	N/A	OIL	33	D	A/D		A	Yes	1		
Oil, misc Diesel	68334-30-5	ODS	33	D	D/E		A	Yes	1		
Oil, misc Gas, high pour	8006-61-9	OGP	33	D	E		A	Yes	1		
Oil, misc Lubricating	93572-43-1	OLB	33	D	E		A	Yes	1		
Oil, misc Residual	68476-33-5	ORL	33	D	E		A	Yes	1		
Oil, misc Turbine	N/A	OTB	33	D	E		A	Yes	1		
n-Pentyl propionate	624-54-4	PPE	34	D	D		A	Yes	1		
alpha-Pinene	7785-26-4	PIO	30	D	D		A	Yes	1		
beta-Pinene	127-91	PIP	30	D	D		A	Yes	1		
Poly(2-8)alkylene glycol monoalkyl (C1-C6) ether	N/A	PAG	40	D	E		A	Yes	1		
Poly(2-8)alkylene glycol monoalkyl (C1-C6) ether acetate	N/A	PAF	34	D	E		A	Yes	1		

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Cargo Identification							Conditions of Carriage				
Name	CAS Number	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	Vapor Recovery		Special Requirements in 46 CFR 151 General and Mat's of Construction	Insp Period
								App'd (Y or N)	VCS Category		
Polybutene	9003-29-6	PLB	30	D	E		A	Yes	1		
Polypropylene glycol	25322-69-4	PGC	40	D	E		A	Yes	1		
Propionaldehyde	123-38-6	PAD	19	D	C		A	Yes	2		
Isopropyl acetate	108-21-4	IAC	34	D	C		A	Yes	1		
n-Propyl acetate	109-60-4	PAT	34	D	C		A	Yes	1		
Isopropyl alcohol	67-63-0	IPA	20 <sup>2,3</sup>	D	C		A	Yes	1		
n-Propyl alcohol	71-23-8	PAL	20 <sup>2</sup>	D	C		A	Yes	1		
Propylbenzene (all isomers)	103-65-1	PBY	32	D	D		A	Yes	1		
Isopropylcyclohexane	696-29-7	IPX	31	D	D		A	Yes	1		
Propylene glycol	57-55-6	PPG	20 <sup>2</sup>	D	E		A	Yes	1		
Propylene glycol methyl ether acetate	108-65-6	PGN	34	D	D		A	Yes	1		
Propylene tetramer	6842-15-5	PTT	30	D	D		A	Yes	1		
Sulfolane	126-33-0	SFL	39	D	E		A	Yes	1		
Tetraethylene glycol	112-60-7	TTG	40	D	E		A	Yes	1		
Tetrahydronaphthalene	119-64-2	THN	32	D	E		A	Yes	1		
Tetramethylbenzene (all isomers)	527-53-7	TTC	32	D	#		A	Yes	1		
Toluene	108-88-3	TOL	32	D	C		A	Yes	1		
Tricresyl phosphate (containing less than 1% ortho isomer)	1330-78-5	TCP	34	D	E		A	Yes	1		
Triethylbenzene	102-25-0 (1,3,5)	TEB	32	D	E		A	Yes	1		
Triethylene glycol	112-27-6	TEG	40	D	E		A	Yes	1		
Triethyl phosphate	78-40-0	TPS	34	D	E		A	Yes	1		
Trimethylbenzene (all isomers)	95-63-6 (1,2,4)	TRE	32	D	(D)		A	Yes	1		
2,2,4-Trimethyl-1,3-pentanediol-1-isobutyrate	18491-15-1	TMP	34	D	E		A	Yes	1		
Trixylyl phosphate	N/A	TRP	34	D	E		A	Yes	1		
1-Undecene	821-95-4	UDC	30	D	D/E		A	Yes	1		
Undecyl alcohol	112-42-5	UND	20	D	E		A	Yes	1		
Xylenes	106-42-3	XLX	32	D	D		A	Yes	1		



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Shipyard: Jeffboat

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

#### Cargo Identification

Name	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
Chem Code none	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.
Compatibility Group No.	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.
Note 1	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-ENG-5), 2703 Martin Luther King Jr. Ave SE Stop 7509, Washington DC 20593-7509 Email: hazmatstandards@uscg.mil
Note 2	See Appendix I to 46 CFR Part 150 - exceptions to the compatibility chart.
Subchapter Subchapter D Subchapter O Note 3	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
Grade	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 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
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
Hull Type I II III 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 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	The vessel's tank group (as defined in Section 4) which is authorized for carriage of the named cargo
Vapor Recovery Approved (Y or N)	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	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
Vapor Recovery Approved (Y or N)	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 39.2011) and the pressure drop calculations (46 CFR 39.3001) 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 components 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 39.2009. 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
Category 7	(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