

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

Certification Date: 14 Apr 2023 Expiration Date: 14 Apr 2024

Temporary 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.

This Temporary Certificate of Inspection is issued under the provision of Title 46 United States Code, Section 399, in lieu of the regular certificate of inspection, and shall be in force only until the receipt on board said vessel of the original certificate of inspection, this certificate in no case to be valid after one year from the date of inspection.

Vessel Name

Official Number

IMO Number

Call Sign

Service

KIRBY 11340

1244304

114

Tank Barge

Hailing Port

Hull Material

Horsepower

Propulsion

NEW ORLEANS, LA

Steel

UNITED STATES

Place Built

Delivery Date

Keel Laid Date

Gross Tons

Net Tons

DWT

Length

PORT NECHES, TX

06Feb2013 17Jul2012

R-735

R-735

R-200.0

i.

1-

1-0

UNITED STATES

Owner

KIRBY INLAND MARINE LP 55 WAUGH DR STE 1000 HOUSTON, TX 77007 UNITED STATES Operato

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

Oilers

0 Chief Mates

0 First Class Pilots

0 First Assistant Engineers

0 Second Mates

Radio Officers
 Able Seamen

0 Second Assistant Engineers0 Third Assistant Engineers

0 Third Mates

0 Ordinary Seamen

0 Licensed Engineers

Master First Class Pilot
 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---

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 6 months in any 12 month period, the vessel must be inspected using salt water intervals as per 46 CFR 31.10-21(a)(1), and the cognizant OCMI must be notified in writing as soon as this change in status occurs.

SEE NEXT PAGE FOR ADDITIONAL CERTIFICATE INFORMATION

With this Inspection for Certification having been completed at Freeport, TX, UNITED STATES, the Officer in Charge, Marine Inspection, Houston-Galveston certified the vessel, in all respects, is in conformity with the applicable vessel inspection laws and the rules and regulations prescribed thereunder.

Date	Zone	A/P/R	Signature
		+	

This certificate issued by:

J. A. COLEMAN CDR, USCG, BY DIRECTION

Officer in Charge, Marine Inspection

Houston-Galveston

Inspection Zone



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

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Temporary Certificate of Inspection

Vessel Name: KIRBY 11340

This tank barge is participating in the Eighth and Ninth Coast Guard District's Tank Barge Streamlined Inspection Program (TBSIP). Inspection activities aboard this barge shall be conducted in accordance with its Tank Barge Action Plan. Inspection issues concerning this barge should be directed to OCMI Houston-Galveston.

---Hull Exams---

Exam Type

Next Exam

Last Exam

Prior Exam

DryDock

31Mar2033

22Mar2023

06Feb2013

Internal Structure

31Mar2028

07Mar2023

08Mar2018

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

Authorization:

GRADE A AND LOWER AND SPECIFIED HAZARDOUS CARGOES

Total Capacity

Units

Highest Grade Type Part151 Regulated Part153 Regulated Part154 Regulated

11270

Barrel

Yes

No

No

Hazardous Bulk Solids Authority

Loading Constraints - Structural

	Manager Manager (Inclast)
Tank Number Max Cargo V	Veight per Tank (short tons) Maximum Density (lbs/gal)
1 P/S 611	15
2 P/S 713	15
3 P/S 634	15

Loading Constraints - Stability

	Hull Type	Maximum Load (short tons)	Maximum Draft (ft/in)	Max Density (lbs/gal)	Route Description
١	I	1310	8ft 4in	15	R,LB&S
	11	1543	9ft 5in	15	R,LB&S
	Ш	1524	9ft 4in	15	LB&S
	Ш	1632	9ft 10in	13.50	LB&S
	Ш	1668	10ft 0in	12.80	LB&S
	III	1758	10ft 5in	15	Rivers
	111	1848	10ft 10in	13.50	Rivers
	Ш	1866	10ft 11in	12.80	Rivers

Conditions Of Carriage

Only those cargoes named in the vessel's Cargo Authority Attachment (CAA), serial #C1-2301228 dated 03 Apr 2023, may be carried, and then only in the tanks indicated. 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.

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 the 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.

The maximum design density of cargo which may be filled to the tank top is 8.7 lbs/gal. Cargoes with higher densities, up to 15 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 max tank weights reflect uniform (within 5%) loading at the deepest draft allowed. When carrying Subchapter O cargoes at shallower drafts, the barge(s) should always be loaded uniformly.



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Temporary Certificate of Inspection

Vessel Name: KIRBY 11340

Vapor Control Authorization

In accordance with 46 CFR Part 39, excluding part 39.4000, this vessel's vapor collection system (VCS) has been inspected to the plans approved by MSC Letter serial #C1-2301119 dated 27 March 2023, and has been found acceptable for the collection of bulk liquid cargo vapors annotated with "Yes" in the CAA's VCS column. The VCS system has been approved with a pressure side of 3 psig P/V valve with Coast Guard Approval 162.017/167/4. The cargo tank top is suitable for a maximum allowable working pressure (MAWP) of 6.25 psig.

Per 46 CFR Part 39.1017 and 39.5000(e), this vessel's VCS has been evaluated and approved by Marine Safety Center letter serial #C1-2301119 dated 27 March 2023, for multi-breasted tandem loading with other vessels specifically approved to tandem load with this vessel.

--- Inspection Status ---

Cargo Tanks

l	ourgo ruinto						
		Internal Exam			External Exam	P	
	Tank Id	Previous	Last	Next	Previous	Last	Next
	1 P/S	06Feb2013	07Mar2023	31Mar2033	06Feb2013	07Mar2023	31Mar2033
	2 P/S	06Feb2013	07Mar2023	31Mar2033	06Feb2013	07Mar2023	31Mar2033
	3 P/S	06Feb2013	07Mar2023	31Mar2033	09Feb2013	07Mar2023	31Mar2033
				Hydro Test			
	Tank Id	Safety Valves		Previous	Last	Next	
1	1 P/S	-		-	-	3	
	2 P/S	*		i e 1 1	≣,	5	
	3 P/S	-			*	-	
П							

--- 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

40-B

END



Cargo Authority Attachment

Official #: 1244304

Shipyard: Sterling

Hull #: H114

Dated

C1-2301228

03-Apr-23

46 CFR 151 Tank Tank Group Information		dentificati			C		Tanks				Environmental Control		Fire	Special Requirements			
Tnk Grp Tanks in Group	Density	Press.	Temp.	Hull Typ	Cargo Seg Tank		Vent	Gauge	Pipe Class	Cont		Handling Space	Protection Provided	General	Materials of Construction	Elec Haz	Temp
A #1C, #2C, #3C	15	Atmos.	Elev	į	1ii 2ii	Integral Gravity	PV	Closed	1	G-1	Inert Dry	/ NA	Portable	40-1(f)(1), .50-5, .50-60, .50-70(a), .50-70(b), .50-73,	55-1(b), (c), (e), (f), (h), (j), 56-1(a), (b), (c), (d), (e), (f), (g),	NR	Yes

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	Cargo Identification										
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	App'd	ecovery VCS Category	Special Requirements in 46 CFR 151 General and Mat'ls of	Insp. Period	
Authorized Subchapter O Cargoes			k								
Bis(2-ethylhexyl) terephthalate	PEC	34	D/O	Ε	H	Α	No	N/A	No	G	
Dodecyl phenol	DOL	21	D/O	E	1	Α	No	N/A	,50-73	2	
Olefins (C13+, all isomers)	OFZ	30	D/O	E	Ш	Α	Yes	1	`	G	
1,1,3,3 Tetrachloroprop-1-ene	TTCP	0	0	Ε	11	Α	No	N/A		G	
Acetone cyanohydrin	ACY	0 1.3	2 0	E	1	А	Yes	3	.50-5, .50-70(b), .50-73, .50-81	G	
Acetonitrile	ATN	37	0	С	311	Α	Yes	3	No	G	
ACP Solutions	ACPS	21	0	E	1	Α	Yes	3	,50-5, .50-73	2	
Acrylonitrile	ACN	15 ²	0	С	Ш	Α	Yes	4	.50-70(a)55-1(e)	G	
Adiponitrile	ADN	37	0	E	П	Α	Yes	1	No	G	
Alkyl (C7-C9) nitrates	AKN	34 2	0	NA	III	Α	No	N/A	.50-81, .50-86	G	
Allyl alcohol	ALA	15 ²	0	С	ı	Α	Yes	3	.50-5, .50-73	G	
Allyl chloride	ALC	15	0	В	f	А	Yes	3	.50-5	G	
Aminoethyl ethanolamine	AEE	8	0	E	Ш	А	Yes	1	.55-1(b)	G	
Ammonium bisulfite solution (70% or less)	ABX	43 2	0	NA	III	А	No	N/A	.50-73, .56-1(a), (b), (c)	G	
Ammonium hydroxide (28% or less NH3)	AMH	6	0	NA	Ħ	А	No	N/A	,56-1(a), (b), (c), (f), (g)	G	
Aniline	ANL	9	0	Е	1	Α	Yes	3	.50-5, .50-73	G	
Anthracene oil (Coal tar fraction)	АНО	33	0	NA	H	Α	No	N/A	No	G	
Benzene	BNZ	32	0	С	111	Α	Yes	1	.50-60	G	
Benzene, C10-16 alkyl derivatives	BEN	32	0	D	Ш	Α	No	N/A		G	
Benzene and mixtures having 10% Benzene or more	внв	32 2	0	С	111	Α	Yes	1	.50-60	G	
Benzene or hydrocarbon mixtures (containing Acetylene and 10% Benzene or more)	вна	32 ²	0	С	Ш	А	Yes	4	,50-60, .56-1(b), (d), (f), (g)	G	
Benzene, Toluene, Xylene mixtures (10% Benzene or more)	BTX	32	0	B/C	III	Α	Yes	1	.50-60	G	
Butyl acrylate (all isomers)	BAR	14	0	D	Ш	А	Yes	2	.50-70(a), .50-81(a), (b)	G	
Butyl methacrylate	вмн	14	0	D	Ш	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	н	Α	No	N/A	No	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,



Dated:

C1-2301228 03-Apr-23

Certificate of Inspection

Cargo Authority Attachment

Official #: 1244304

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Shipyard: Sterling

Cargo Identificati	Conditions of Carriage									
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	Vapor R App'd (Y or N)	VCS	Special Requirements in 46 CFR 151 General and Mat'ls of Construction	Insp. Period
Carbolic oil	СВО	21	0	Ε	i	Α	Yes	3	.50-5, .50-73	G
Carbon tetrachloride	CBT	36	0	NA	Ш	Α	Yes	3	No	G
Caustic potash solution	CPS	5 2	0	NA	III	Α	No	N/A	.50-73, .55-1(j)	G
Caustic soda solution	css	5 2	0	NA	m	Α	No	N/A	.50-73, .55-1(j)	G
Chlorobenzene	CRB	36	0	D	Ш	Α	Yes	1	No	G
Chloroform	CRF	36	0	NA	III	Α	Yes	3	No	G
Chlorohydrins (crude)	CHD	17	0	D	1	Α	Yes	3	.50-5	G
o-Chloronitrobenzene	CNO	42	0	Е	1	А	No	N/A	.50-5, .50-73	G
Coal tar crude bases	СТВ	9	0	D	1	А	No	N/A	.50-5, .50-73, .55-1(e)	G
Coal tar naphtha solvent	NCT	33	0	D	Ш	Α	Yes	1	.50-73	G
Coal tar pitch (molten)	СТР	33	0	Е	111	А	No	N/A	.50-73	G
Creosote	ccw	21 2	0	E	Ш	Α	Yes	1	No	G
Cresols (all isomers)	CRS	21	0	E	Ш	Α	Yes	1	No	G
Cresylate spent caustic	csc	5	0	NA	111	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	СТА	19 2	0	С	11	A	Yes	4	,55-1(h)	G
Crude hydrocarbon feedstock (containing Butyraldehydes and Ethylpropyl acrolein)	CHG	19 ²	0	С	Ш	Α	Yes	1	No	G
Cyclohexanone	ссн	18	0	D	III	A	Yes	1	.56-1(a). (b)	G
Cyclohexanone, Cyclohexanol mixture	CYX	18 ²	0	E	III	А	Yes	1	.56-1 (b)	G
Cyclohexylamine	CHA	7	0	D	111	A	Yes	1	.56-1(a), (b), (c), (g)	G
Cyclopentadiene, Styrene, Benzene mixture	CSB	30	0	D	111	А	Yes	1	.50-60, .56-1(b)	G
iso-Decyl acrylate	IAI	14	0	Е	III	A	Yes	2	.50-70(a), .50-81(a), (b), .55-1(c)	G
Dichlorobenzene (all isomers)	DBX	36	0	E	III	A	Yes	3	.56-1(a). (b)	G
1,1-Dichloroethane	DCH	36	0	С	III	A	Yes	1	No	G
2,2'-Dichloroethyl ether	DEE	41	0	D	11	A	Yes	1	.55-1(f)	G
Dichloromethane	DCM	36	0	NA	III	A	Yes	5	No	G
2,4-Dichlorophenoxyacetic acid, diethanolamine salt solution	DDE	43	0	E	III	A	No	N/A	.56-1(a), (b), (c), (g)	G
2,4-Dichlorophenoxyacetic acid, dimethylamine salt solution	DAD	0 1.2		A	III	A	No	N/A	,56-1(a), (b), (c), (g)	G
2,4-Dichlorophenoxyacetic acid, triisopropanolamine salt solution	DTI	43 2	0	E	111	A	No	N/A	,56-1(a), (b), (c), (g)	G
1,1-Dichloropropane	DPB	36	0	С	III	A	Yes	3	No	
1,2-Dichloropropane	DPP	36	0	С	Ш	A	Yes	3	No	G
1,3-Dichloropropane	DPC	36	0	С	III	Α	Yes	3	No	G
1,3-Dichloropropene	DPU	15	0	D	11	A	Yes	4	No	G
Dichloropropene, Dichloropropane mixtures	DMX	15	0	С	11	A	Yes	1	No	G
Diethanolamine	DEA	8	0	E	III	A	Yes	1	,55-1(c)	G
20 / W = 1									39997000	
Diethylamine	DEN	7	0	C	111	A	Yes	3	.55-1(c)	G



Cargo Authority Attachment

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Shipyard: Sterling

C1-2301228

03-Apr-23

Cargo Identifica	Conditions of Carriage									
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	Vapor R App'd (Y or N)	VCS	Special Requirements in 46 CFR 151 General and Mat'ls of Construction	Insp. Period
Diisobutylamine	DBU	7	0	D	101	А	Yes	3	.55-1(c)	G
Diisopropanolamine	DIP	8	0	E	Ш	А	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	Е	Ш	Α	Yes	3	.56-1(b)	G
Dimethyl disulfide	DSK	0	0	С	II	Α	Yes	3	.50-5	G
Dimethylethanolamine	DMB	8	0	D	111	Α	Yes	1	.56-1(b), (c)	G
Dimethylformamide	DMF	10	0	D	Ш	A	Yes	1	,55-1(e)	G
1,4-Dioxane	DOX	41	0	С	11	A	Yes	1	No	G
Diphenylmethane diisocyanate	DPM	12	0	Е	11	A	Yes	4	.50-5, .56-1(a), (b)	G
Di-n-propylamine	DNA	7	0	С	11	Α	Yes	3	.55-1(c)	G
1-Dodecene	DDC	30	0	E	II.	A	No	N/A	No	G
Dodecyldimethylamine, Tetradecyldimethylamine mixture	DOT	7	0	E	III	A	No	N/A	.56-1(b)	G
Dodecyl diphenyl ether disulfonate solution	DOS	43	0	#	11	A	No	N/A	No	g
EE Glycol Ether Mixture	EEG	40	0	D	Ш	A	No	N/A	No	G
Epichlorohydrin	EPC	17	0	D	ľ.	А	Yes	3	.50-5	G
Ethanolamine	MEA	8	0	E	III	Α	Yes	1	,55-1(a)	G
Ethyl acrylate	EAC	14	0	С	HI	A	Yes	2	.50-70(a), .50-81(a), (b)	G
Ethylamine solutions (72% or less)	EAN	7	0	Α	Н	A	No	N/A	.55-1(b)	G
N-Ethylbutylamine	EBA	7	0	D	III	A	Yes	3	,55-1(b)	G
N-Ethylcyclohexylamine	ECC	7	0	D	111	A	Yes	1	.55-1(b)	G
Ethylene chlorohydrin	ECH	20	0	D	1	A	Yes	3	.50-5, .50-73	G
Ethylene cyanohydrin	ETC	20	0	E	III	A	Yes	1	No	G
Ethylenediamine	EDA	7 2	0	D	III	Α	Yes	1	.55-1(c)	G
Ethylene dichloride	EDC	36 ²	0	C	ш	A	Yes	1	No	G
Ethylene glycol hexyl ether	EGH	40	0	E	III	Α	No	N/A	No	G
Ethylene glycol monoalkyl ethers	EGC	40	0	D/E	III	A	Yes	1	No	G
Ethylene glycol propyl ether	EGP	40	0	E	111	Α	Yes	1	No	G
2-Ethylhexyl acrylate	EAI	14	0	Е	III	Α	Yes	2	.50-70(a) .50-81(a) (b)	G
Ethyl methacrylate	ETM	14	0	D/E	111	A	Yes	2	.50-70(a)	G
2-Ethyl-3-propylacrolein	EPA	19 ²	0	E	Ш	A	Yes	1	No	G
Formaldehyde solution (37% to 50%)	FMS	19 ²	0	D/E	111	A	Yes	1	,55-1(h)	G
Furfural	FFA	19	0	D	Ш	A	Yes	1	.55-1(h)	G
Glutaraldehyde solutions (50% or less)	GTA	19	0	NA	Ш	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	А	Yes	1	.56-1(b), (c)	G
2-Hydroxyethyl acrylate	HAI	0 1.2	0	E	1	Α	Yes	3	.50-5, .50-70(a), .50-73, .50-81(a), (G
Isoprene	IPR	30	0	A	III	A	No	N/A	.50-70(a) .50-81(a) (b)	G



United States Coast Guard

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Shipyard: Sterling

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Isoprene, Pentadiene mixture	IPN	30	0	В	Ш	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	Ш	Α	No	N/A	.50-7356-1(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	Ш	A	Yes	1	No	G
Methyl diethanolamine	MDE	8	0	E	III	A	Yes	1	.56-1(b), (c)	G
2-Methyl-5-ethyl pyridine	MEP	9	0	E	III	A	Yes	1	,55-1(e)	G
Methyl methacrylate	MMM		0	C	III	A	Yes	2	.50-70(a) .50-81(a) (b)	G
2-Methylpyridine	MPR	9	0	D	111	A	Yes	3	,55-1(c)	G
alpha-Methylstyrene	MSR	30	0	D	111	A	Yes	2	.50-70(a), .50-81(a), (b)	G
Morpholine	MPL	7 2	0	D	111	A	Yes	1	.55-1(c)	
Naphthalene (molten)	NTM	32	0	C	111	A	Yes		No	G
Nitrobenzene	NTB	42	0	E		A	Yes	3	.50-5, .50-73	
Nitroethane	NTE	42	0	D		A	No	100000	.50-81, .56-1(b)	G
1- or 2-Nitropropane	NPM	42	0	D	111	A	27.77.22.2	N/A	.50-81	G
o-Nitrotoluene	NIE	42	0	E	1		Yes	1	.50-5, .50-73	G
Pentachloroethane	PCE	36	0	NA		Α	No	N/A		G
1,3-Pentadiene	PDE	30	0			A	No	N/A	No So To La Company	G
Perchloroethylene	PER	36		A	111	Α	No	N/A	.50-70(a), .50-81	G
Phenol (or solutions with 5% or more Phenol)	PHN	20.74	0	NA		A	No	N/A	No	G
Phenol (15% min.), Xylenol (15% min.), Cresols (35% min.) mixture		21	0	E	1	Α .	Yes	3	.50-550-73	2 yr
Phthalic anhydride (molten)	CRZ	21	0	E		A	No	N/A	.50-5, .50-73	2 yr
Polyethylene polyamines	PAN	11	0	E		Α	Yes	1	Na	G
Polymethylene polyphenyl isocyanate	PEB	72	0	E	Ш	A	Yes	1	.55-1(e)	G
Potassium chloride solution (brine)	PPI	12	0	E	11	A	Yes	1	.55-1(e)	G
iso-Propanolamine	PCSB	0	0	NA	III	Α	No	N/A	Charles and	G
Propanolamine (iso-, n-)	MPA	8	0	E	_111	A	Yes	1	.55-1(c)	G
Isopropylamine	PAX	8	0	E	III	A	Yes	1	.56-1(b), (c)	G
	IPP	7	0	Α	11	A	Yes	5	.55-1(c)	G
Isopropyl ether Pyridine	IPE	41	0	С	111	Α	Yes	1	.50-70(a)	G
Pyrolysis Gasoline	PRD	9	0	С	III	A	Yes	1	.55-1(e)	G
Sodium aluminate solution (45% or less)	PYGA	0	0	В	111	A	Yes	1	,50-5, ,50-60	G
Sodium chlorate solution (50% or less)	SAU	5	0	NA	111	A	No	N/A	.50-7356-1(a), (b), (c)	G
Sodium hypochlorite solution (20% or less)	SDD	0 1.2	0	NA	111	A	No	N/A	.50-73	G
	SHQ	5	0	NA	III	Α .	No	N/A	.50-73, .56-1(a), (b)	G
Sodium Methylate (30% or less) in Methyl Alcohol Mixture	SMS	20	0	D	-111	Α	No	N/A	No	4 yr
Sodium sulfide, hydrosulfide solution (H2S 15 ppm or less)	SSH	0 1,2	0	NA	Ш	A	Yes	1	.50-73, .55-1(b)	G



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Cargo Identification	n					Conditions of Carriage						
Name		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 Construction	Insp. Period		
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	.50-7355-1(b)	g		
Sodium sulfide, hydrosulfide solution (H2S greater than 200 ppm)	SSJ	0 1.	2 0	NA	H	Α	No	N/A	.50-73. ,55-1(b)	G		
Spent Caustic Soda Solution (containing up to 0.1% Benzene)	scss	5	0	NA	III	А	No	N/A	.50-6050-73, .55-1(j)	G		
Styrene monomer	STY	30	0	D	Ш	A	Yes	2	.50-70(a), .50-81(a), (b)	G		
Tetrachloroethane	TEC	36	0	NA	Ш	A	No	N/A	No	G		
Tetraethylene pentamine	TTP	7	0	E	 III	A	Yes	1	.55-1(c)	G		
Tetrahydrofuran	THE	41	0	C	111	A		1	.50-70(b)	G		
Toluenediamine	TDA	9	0	E	ll li		Yes					
o-Toluidine	TLI	9	0	E		Α .	No	N/A	.50-73, .56-1(a), (b), (c), (g)	G		
1,2,4-Trichlorobenzene	TCB	36			- 11	Α .	Yes	3	.50-5, .50-73	G		
1,1,2-Trichloroethane			0	E	III	A	Yes	1	No	G		
Trichloroethylene	TCM	36	0	NA	Ш	A	Yes	1	.50-73, .56-1(a)	G		
1,2,3-Trichloropropane	TCL	36 ²	0	NA	111	Α	Yes	11	No	G		
	TCN	36	0	E	11	Α	Yes	3	.50-73, .56-1(a)	G		
Triethanolamine	TEA	8 2	0	E	HI	Α	Yes	1	.55-1(b)	G		
Triethylamine	TEN	7	0	С	н	Α	Yes	3	.55-1(e)	G		
Triethylenetetramine	TET	7 2	0	E	111	Α	Yes	1	.55-1(b)	G		
Triphenylborane (10% or less), caustic soda solution	TPB	5	0	NA	HI	Α	No	N/A	.56-1(a), (b), (c)	G		
Trisodium phosphate solution	TSP	5	0	NA	ш	Α	No	N/A	.50-73, .56-1(a), (c).	G		
Urea, Ammonium nitrate solution (containing more than 2% NH3)	UAS	6	0	NA	Ш	Α	No	N/A	,56-1(b)	G		
Valeraldehyde (all isomers)	VAK	19	0	D	Ш	Α	Yes	1	No	G		
Vanillin black liquor (free alkali content, 3% or more).	VBL	5	0	NA	Ш	Α	No	N/A	.50-73, .56-1(a), (c), (g)	G		
Vinyl acetate	VAM	13	0	С	111	A	Yes	2	.50-70(a), .50-81(a), (b)	G		
Vinyl neodecanoate	VND	13	0	E	III	Α	No	N/A	.50-70(a) .50-81(a) (b)	G		
VinyItoluene	VNT	13	0	D	Ш	Α	Yes	2	.50-70(a), .50-81, .56-1(a), (b), (c), (G		
ubchapter D Cargoes Authorized for Vapor Contro	1											
Acetone	ACT	18 2	D	С		Α	Yes	1				
Acetophenone	ACP	18	D	E	_	Α	Yes	1				
Alcohol (C12-C16) poly(20+) ethoxylates	APW	20	D	E		Α	Yes	1				
Alcohol (C6-C17) (secondary) poly(3-6) ethoxylates	AEA	20	D	E		A	Yes	1				
Alcohol (C6-C17) (secondary) poly(7-12) ethoxylates	AEB	20	D	E		Α	Yes	1				
Amyl alcohol (ico. a. coo. princers)	AEC	34	D	D	-	Α	Yes	1				
Amyl alcohol (iso-, n-, sec-, primary) Senzyl acetate	AAI	20	D	D		Α	Yes	1				
denzyl alcohol	BZE	34	D	E		Α	Yes	1				
	BAL	21	D	E		Α	Yes	1				
Trake fluid base mixtures (containing Poly(2-8)alkylene(C2-C3) glycols, lolyalkylene(C2-C10) glycol monoalkyl(C1-C4) ethers, and their borate sters)	BFY	20	D	Е		А	Yes	1				
utyl acetate (all isomers)	BAX	34	D	D		A	Yes	1				



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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 Construction	Insp. Period	
Isobutyl alcohol	IAL	20 2	D	D		А	Yes	1			
Butyl alcohol (n-)	BAN	20 2	D	D		А	Yes	1			
Butyl alcohol (sec-)	BAS	20 2	D	С		A	Yes	1			
tert-Butyl Alcohol	BAT	20 2	D	С		A	Yes	1			
Butyl benzyl phthalate	ВРН	34	D	Ε		A	Yes	1			
Butyl toluene	BUE	32	D	D		A	Yes	1			
Caprolactam solutions	CLS	22	D	E		A	Yes	1			
Cycloheptane	CYE	31	D	С		A	Yes				
Cyclohexane	CHX	31	D	c		A		1			
Cyclohexanol	CHN	20	D	E			Yes	1			
Cyclohexyl acetate	CYC	34	D	D		Α	Yes	1			
1,3-Cyclopentadiene dimer (molten)	CPD	30	D			Α .	Yes	1			
Cyclopentane	CYP			D/E		A	Yes	2			
p-Cymene	CMP	31	D	В		A	Yes	1			
iso-Decaldehyde	IDA	32	D	D		A	Yes	11			
n-Decaldehyde	DAL	19	D	E		A	Yes	1			
Decanoic acid	DCO	19	D	Ε		A	Yes	1			
Decene	DCE	30	D	#		Α	Yes	1			
Decyl alcohol (all isomers)			D	D		Α	Yes	_ 1			
n-Decylbenzene, see Alkyl(C9+)benzenes	DAX	20 2	D	E		Α	Yes	1			
Diacetone alcohol	DBZ	32	D	E		A	Yes	1			
Dibutyl phthalate	DAA	20 2	D	D		Α	Yes	1			
Diethylbenzene	DPA	34	D	E		Α	Yes	1			
Diethylene glycol	DEB	32	D	D		A	Yes	_1			
Diisobutylene	DEG	40 2	D	E		Α	Yes	1			
Diisobutyl ketone	DBL	30	D	С		A	Yes	_1			
Diisopropylbenzene (all isomers)	DIK	18	D	D		A	Yes	1			
Dimethyl phthalate	DIX	32	D	E		Α	Yes	1			
Dioctyl phthalate	DTL	34	D	E		Α	Yes	1			
Dipentene	DOP	34	D	E		Α	Yes	1			
Diphenyl	DPN	30	D	D		Α	Yes	1			
Diphenyl, Diphenyl ether mixtures	DIL	32	D	D/E		Α	Yes	1			
Diphenyl ether	DDO	33	D	E		Α	Yes	1			
Dipropylene glycol	DPE	41	D	{E}		Α	Yes	1			
Distillates: Flashed feed stocks	DPG	40	D	E		Α	Yes	1			
Distillates: Straight run	DFF	33	D	E		Α	Yes	1			
	DSR	33	D	E		Α	Yes	1			
odecene (all isomers)	DOZ	30	D	D		Α	Yes	1			
	DDB	32	D	E		Α	Yes	1			
-Ethoxyethyl acetate	EEA	34	D	D		Α	Yes	1			
thoxy triglycol (crude)	ETG	40	D	E		Α	Yes	1			



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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 Construction	Insp.	
Ethyl acetate	ETA	34	D	С		А	Yes	1			
Ethyl acetoacetate	EAA	34	D	E		Α	Yes	1			
Ethyl alcohol	EAL	20 2	D	С	-	A	Yes	1			
Ethylbenzene	ETB	32	D	С		A	Yes	1			
Ethyl butanol	EBT	20	D	D		A	Yes				
Ethyl tert-butyl ether	EBE	41	D	C		A	Yes	1			
Ethyl butyrate	EBR	34	D	D		A	Yes				
Ethyl cyclohexane	ECY	31	D	D	-	A	Yes	1			
Ethylene glycol	EGL	20 2	D	E		A	Yes			-	
Ethylene glycol butyl ether acetate	EMA	34	D	E		A		1			
Ethylene glycol diacetate	EGY	34	D	E			Yes	1			
Ethylene glycol phenyl ether	EPE	40	D	E		A .	Yes	1			
Ethyl-3-ethoxypropionate	EEP	34	D			A	Yes	1			
2-Ethylhexanol	EHX	20	D	D		_ A	Yes	11			
Ethyl propionate	EPR	34	D	E		A	Yes	. 1			
Ethyl toluene	ETE	32		С		A	Yes	1			
Formamide	FAM	10	D	D		A	Yes	1			
Furfuryl alcohol	FAL	20 2		E		Α	Yes	1			
Gasoline blending stocks: Alkylates	GAK	33	D	E	-	A	Yes	1			
Gasoline blending stocks: Reformates	GRF	33	D	С		A	Yes	1			
Gasolines: Automotive (containing not over 4.23 grams lead per gallon,		33	D	C		. A	Yes	1			
Gasolines: Aviation (containing not over 4.86 grams of lead per gallon)	GAV		D	A/C		Α	Yes	1			
Gasolines: Casinghead (natural)	GCS	33	D	C		A	Yes	1			
Gasolines: Polymer	GPL		D	A/C		A	Yes	1			
Gasolines: Straight run		33	D	С		Α	Yes	11			
Glycerine	GSR	33	D	A/C		A	Yes	1			
Heptane (all isomers)	GCR	20 2	D	E		Α	Yes	1			
n-Heptanoic acid	HMX	31	D	С		Α	Yes	1			
Heptanol (all isomers)	HEN	4	D	E		Α	Yes	1			
Heptene (all isomers)	HTX	20	D	D/E		Α	Yes	1			
Heptyl acetate	HPX	30	D	С	,	Α	Yes	2			
Hexane (all isomers)	HPE	34	D	E		Α	Yes	1			
Hexanoic acid	HXS	31 2	D	B/C		Α	Yes	1			
Hexanol	HXO	4	D	E		Α	Yes	1			
Hexene (all isomers)	HXN	20	D	D		Α	Yes	1			
Hexylene glycol	HEX	30	D	С		A	Yes	2			
sophorone	HXG	20	D	E		_A	Yes	1			
let fuel; JP-4	IPH	18 2	D	E		A	Yes	1			
et fuel: JP-5 (kerosene, heavy)	JPF	33	D	E		Α	Yes	1			
Gerosene Gerosene	JPV	33	D	D		Α	Yes	. 1			
reinseile	KRS	33	D	D		A	Yes	1			



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	Chem	Compat	Sub		ыш	Tools		Recovery	Special Requirements in 46 CFR		
Name	Code	Group No	Chapter	Grade	Hull Type	Tank Group	(Y or N)	VCS Category	151 General and Mat'ls of Construction	Insp. Period	
Lauric acid	LRA	34	D	#		Α	Yes	1			
Methyl acetate	MTT	34	D	D		A	Yes	1			
Methyl alcohol	MAL	20 2		С		A	Yes	1			
Methylamyl acetate	MAC	34	D	D		A	Yes	1			
Methylamyl alcohol	MAA	20	D	D		A	6706				
Methyl amyl ketone	MAK	18	D	D		A	Yes	1			
Methyl tert-butyl ether	MBE	41 2		С		A	STORR	1			
Methyl butyl ketone	MBK	18	D	С		A	Yes	1			
Methyl butyrate	MBU	34	D	C		A	Yes	1			
Methylcyclohexane	MCY	31	D	C		A	Yes	1			
Methyl ethyl ketone	MEK	18 2	D	С			Yes	1			
Methyl heptyl ketone	MHK	18	D	D		Α .	Yes				
2-Methyl-2-hydroxy-3-butyne	MHB	20	D	С		A_	Yes				
Methyl isobutyl ketone	MIK	18 2	D	С		A	Yes	1			
Mineral spirits	MNS	33	D	D		A	Yes	1			
Myrcene	MRE	30	D	D		Α	Yes	1			
Naphtha: Heavy	NAG	33	D	#		Α .	Yes	1			
Naphtha: Petroleum	PTN	33	D	#		A	Yes	1			
Naphtha: Solvent	NSV	33	D	# D		Α	Yes	1			
Naphtha: Stoddard solvent	NSS	33	D	D		A	Yes	1			
Naphtha: Varnish makers and painters (75%)	NVM	33	D	С		Α .	Yes	1			
Neodecanoic acid	NEA	4	D	E		Α	Yes	1			
Nonane (all isomers)	NAX	31	D	D		A .	Yes	1			
Nonene (all isomers)	NON	30	D	D		A	Yes	1			
Nonyl alcohol (all isomers)	NNS	20 2	D	E		A	Yes	2			
Nonyl phenol	NNP	21	D	E		Α	Yes	1			
Nonyl phenol poly(4+)ethoxylates	NPE	40	D	E		A	Yes	1			
Octane (all isomers)	OAX	31	D	C		A	Yes	1			
Octanoic acid (all isomers)	OAY	4	D	E		A	Yes	1			
Octanol (all isomers)	ocx	20 2	D	E		A	Yes	1			
Octene (all isomers)	OTX	30	D	C		A	Yes	1			
Oil, fuel: No. 2	OTW	33	D	-		A	Yes	2			
Oil, fuel: No. 2-D	ОТО	33	D	D/E D		Α	Yes	1			
Oil, fuel; No. 4	OFR	33		D/E		A	Yes	1			
Oil, fuel: No. 5	OFV	33	1970	D/E	-	A	Yes	1			
Oil, fuel: No. 6	OSX	33		E		A	Yes	1			
Oil, misc: Crude	OIL	33		A/D		A	Yes	1			
Oil, misc: Diesel	ODS	33		D/E		A	Yes	1			
Oil, misc: Gas, high pour	OGP	33		E				1			
Oil, misc: Lubricating	OLB	33		E		A	Yes	1			
	010	55				A	Yes	1			



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Name	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	Vapor F App'd (Y or N)	Recovery VCS Category	Special Requirements in 46 CFR 151 General and Mat'ls of Construction	Insp. Period		
Oil, misc: Residual	ORL	33	D	E		А	Yes	1				
Oil, misc. Turbine	ОТВ	33	D	E		Α	Yes	1				
alpha-Olefins (C6-C18) mixtures	OAM	30	D	E		Α	Yes	1				
Pentane (all isomers)	PTY	31	D	Α		Α	Yes	5				
Pentene (all isomers)	PTX	30	D	Α		Α	Yes	5				
n-Pentyl propionate	PPE	34	D	D		Α	Yes	1				
alpha-Pinene	PIO	30	D	D		A	Yes	1	100000000000000000000000000000000000000			
beta-Pinene	PIP	30	D	D		Α	Yes	1		******		
Poly(2-8)alkylene glycol monoalkyl (C1-C6) ether	PAG	40	D	E		Α	Yes	1				
Poly(2-8)alkylene glycol monoalkyl (C1-C6) ether acetate	PAF	34	D	E		Α	Yes	1				
Polybutene	PLB	30	D	E		A	Yes	1				
Polypropylene glycol	PGC	40	D	E		Α	Yes	1				
Propionaldehyde	PAD	19	D	С		A	Yes	2	The state of the s			
Isopropyl acetate	IAC	34	D	С		A	Yes	1				
n-Propyl acetate	PAT	34	D	C		A	Yes	1	The state of the s			
Isopropyl alcohol	IPA	20 2		С		A	Yes	1				
n-Propyl alcohol	PAL	20 2		С		Α.	Yes	1				
Propylbenzene (all isomers)	PBY	32	- D	D		A	Yes	1				
Isopropylcyclohexane	IPX	31	D	D		Α	Yes	1				
Propylene glycol	PPG	20 2		E		A	Yes	1				
Propylene glycol methyl ether acetate	PGN	34	D	D		A	Yes	1				
Propylene tetramer	PTT	30	D	D		A	Yes	1				
Sulfolane	SFL	39	D	E		A	Yes					
Tetraethylene glycol	TTG	40	D	E	-	A	Yes	1				
Tetrahydronaphthalene	THN	32	D	E		A	Yes	1				
Tetramethylbenzene (all isomers)	TTC	32	D	#		A	Yes	1				
Toluene	TOL	32	D	C		A	Yes	1				
Tricresyl phosphate (containing less than 1% ortho isomer)	TCP	34	D	E		A	Yes	1	THE STATE OF THE S			
Triethylbenzene	TEB	32	D	E		A	Yes	1				
Triethylene glycol	TEG	40	D	E		A						
Triethyl phosphate	TPS	34	D	-			Yes	11				
Trimethylbenzene (all isomers)	TRE	32	1.70	E		Α	Yes	1				
2,2,4-Trimethyl-1,3-pentanediol-1-isobutyrate	TMP	34	D D	(D) E		A	Yes	1				
Trixylyl phosphate	TRP	34	D	E		Α	Yes	11				
1-Undecene	UDC	30	D	D/E		A	Yes	1				
Undecyl alcohol	UND	20	D	E	****	A	Yes	1				
Kylenes	XLX	32	D	D		A	Yes	1		-		



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Explanation of terms & symbols used in the Table:

Cargo Identification

Name Chem Code

none

The propper shipping name as listed in 46 CFR Table 30.25-1, 46 CFR Table 151.05, and 46 CFR Part 153 Table 2. The three letter designation assigned to the cargo in the Chemical Hazards Response Information System (CHRIS) Manual. Certain mixtures of cargoes may not have a CHRIS Code assigned

Compatability 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. 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

Note 1 Note 2

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.

Subchanter Subchapter D

Subchapter O Note 3

Grade

A, B. C

Note 4

Hull Type

See Appendix I to 46 CFR Part 150 - exceptions to the compatability chart. The subchapter in Title 46 Code of Federal Regulations under which the cargo has been classified.

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

Those hazardous cargoes listed in 46 CFR Table 151,05 and 46 CFR Part 153 Table 2.

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

The cargo classification assigned to each flammable or combustible liquid. Grades inside of "\(\gamma\)" 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 Flammable liquid cargoes, as defined in 46 CFR 30-10.22.

Combustible liquid cargoes, as defined in 46 CFR 30-10.15.

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

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

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

The required barge hull classification for carriage of the specified Subchapter O hazardous material cargo, see 45 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 proclude 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

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

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

Conditions of Carriage

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

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

VCS Category

Category 1

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

(No additional VCS requirements above those for benzene, gasolines and crude oil) All requirements applying to the handling of oil and hazardous materials in Titles (No additional VCS) requirements above truse for benzene, gasolines and Grode oil) All requirements applying to the handling of oil and hazardoos materials 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 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 39.2009. requirement is in addition to the requirements of Category 1.

Category 4

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

Category 5

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

Category 6 Category 7

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

none

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