

Certification Date: 29 Jan 2024 Expiration Date: 29 Jan 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	Off	ficial Number	IMO Numb	per	Call Sign	Service	
HFL 204S	12	291095				Tank	Barge
Hailing Port		Hull Material	Horse	power	Propulsion		
NASHVILLE, TN		Steel		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	riopaloion		
UNITED STATES		0.001					
		2					
Place Built		Delivery Dale	Keel Laid Date	Gross Tons	Net Tons	DWT	Length
CARUTHERSVILLE, MO	•	09Jan2019	28Nov2018	R-705	R-705		R-200.0
UNITED STATES				l-	l-		I-0
Owner HINES FURLONG LINE I	NC		Operato		DAROE TOA	NODODTE	20110
4015 HILLSBORO PIKE				5TH STRE	L BARGE TRA EET	NSPORTER	RS LLC
NASHVILLE, TN 37215			MAN	DEVILLE, I	LA 70471		
UNITED STATES			UNII	ED STATE	:8		
This vessel must be mann	ed with the follo	wing licensed	and unlicensed	Personne	l. Included in w	hich there n	nust be
0 Certified Lifeboatmen, 0				and 0 GMD	SS Operators.		
0 Masters	0 Licensed Mate		Engineers		ilers		
0 Chief Mates 0 Second Mates	0 First Class Pilo		Assistant Engineer				
0 Second Mates  0 Third Mates	Radio Officers     Able Seamen		nd Assistant Engin Assistant Enginee				
0 Master First Class Pilot	0 Ordinary Seam		sed Engineers	:15			
0 Mate First Class Pilots	0 Deckhands		ied Member Engin	neer			
In addition, this vessel may Persons allowed: 0	y carry 0 Passer				ns in addition to	o crew, and	no Others. Total
Route Permitted And C	onditions Of Or	peration:					
Lakes, Bays, and	•						

Also, in fair weather only, 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 months in any twelve 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-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 New Orleans, LA, UNITED STATES, the Officer in Charge, Marine Inspection, Sector New Orleans certified the vessel, in all respects, is in conformity with the applicable vessel inspection laws and the rules and regulations prescribed thereunder.

	Annual/Peri	odic/Re-Inspe	ction	This certificate issued by:
Date	Zone	A/P/R	Signature	J. H. HART COMMANDER, by direction
				Officer in Charge, Marine inspection
				Sector New Orleans
				Inspection Zone



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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 sector New Orleans OCMI.

#### ---Hull Exams---

Exam Type

Next Exam

Last Exam

Prior Exam

DryDock

31Jan2029

09Jan2019

Internal Structure

26Jan2029

26Jan2024

09Jan2019

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

Authorization:

GRADE "A" AND LOWER AND SPECIFIED HAZARDOUS CARGOE

**Total Capacity** 

Units

Highest Grade Type Part151 Regulated Part153 Regulated Part154 Regulated

10892

Barrels

Yes

No

Νo

### \*Hazardous Bulk Solids Authority\*

Not Authorized

### \*Loading Constraints - Structural\*

Tank Number	Max Cargo Weight per Tank (short tons)	Maximum Density (lbs/gal)
1C	695	13.60
2C	667	13.60
3C	663	13.60

### \*Loading Constraints - Stability\*

Hull Type	Maximum Load (short tons)	Maximum Draft (ft/in)	Max Density (lbs/gal)	Route Description
Ш	1785	10ft 7in	8.80	R
III	1854	10ft 11in	9.20	R
III	1905	11ft 2in	9.60	R
Ш	1902	11ft 2in	10.00	R
III	1899	11ft 2in	10.40	R
111	1914	11ft 3in	10.80	R
III	1929	11ft 3in	11.30	R
Ш	1926	11ft 3in	11.70	R
III	1868	11ft Oin	12.10	R
III	1866	11ft Oin	12.50	R
Ш	1845	10ft 11in	12.90	R
III	1843	10ft 11in	13.30	R
Ш	1832	10ft 10in	13.60	R
Ш	1749	10ft 5in	8.80	LBS
III	1763	10ft 6in	9.20	LBS
III	1760	10ft 6in	9.60	LBS



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Ш	1775	10ft 7in	10.00	LBS
III	1772	10ft 7in	10.40	LBS
III	1716	10ft 4in	10.80	LBS
III	1728	10ft 4in	11.30	LBS
III	1726	10ft 4in	11.70	LBS
111	1705	10ft 3in	12.10	LBS
III	1685	10ft 2in	12.50	LBS
III	1683	10ft 2in	12.90	LBS
III	1662	10ft 1in	13.30	LBS
III	1650	10ft 0in	13.60	LBS
II	1495	9ft 3in	8.80	R
II	1495	9ft 3in	8.80	LBS
II	1488	9ft 3in	13.60	R
II	1488	9ft 3in	13.60	LBS
1	1423	8ft 11in	8.80	R
1	1423	8ft 11in	8.80	LBS
1	1416	8ft 11in	13.60	R
I	1416	8ft 11in	13.60	LBS

### \*Conditions Of Carriage\*

Only those specified hazardous cargoes named in the vessel's Cargo Authority Attachment (CAA), Serial C1-1804442, dated November 27, 2018 and Grade "A" and lower cargoes 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 GRP" 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.

#### \*Stability and Trim\*

Cargo tanks must be loaded uniformly whenever a 46 CFR Subchapter "O" cargo is carried; for trim purposes, the weight of cargo in each tank may exceed the uniformly loaded tank cargo weight by at most 5 percent.

The maximum density of cargo which may be filled to the tank top is 10.0 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.

### \*Vapor Control Authorization\*

In accordance with 46 CFR 39, excluding 46 CFR 39.4000, this vessel's vapor control system has been inspected to the plans approved by Marine Safety Center letter Serial C1-1804442 dated November 27, 2018 and the list of authorized cargoes on the CAA, Serial C1-1804442 dated November 27, 2018 and found acceptable for collection of bulk liquid cargo vapors annotated with "Yes" in the CAA's VCS column.

In accordance with 46 CFR Part 39.1017 and 39.5000(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.



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--- Inspection Status ---

### \*Cargo Tanks\*

	Internal Exam	1		External Exar	n	
Tank Id	Previous	Last	Next	Previous	Last	Next
1C	-	09Jan2019	31Jan2029		( <del>**</del>	140
2C	-	09Jan2019	31Jan2029	ia.	7/26	-
3C	125	09Jan2019	31Jan2029	<b>≅</b> .	38	
			Hydro Test			
Tank ld	Safety Valves	3	Previous	Last	Next	
1C	3 <b>=</b> 3		:=	<b>%</b> I	Sreit	
2C	(E		<b>(</b>	8	0.75	
3C	1. <del>5</del>		(#E	-	) <del>(</del> =)	

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

Required Only During Transfer of Cargo or Operation of Barge Machinery

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

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

Quantity Class Type 2 40-B

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



Certificate of Inspection

Cargo Authority Attachment

Vessel Name: HFL 204S

Shipyard: TRINITY MARINE

Serial #:

C1-1804442

GROUP.

CARUTHERSVILLE, MO

Hull #: 6078-3

Official #: 1291095

Tar	k Group Information	Cargo I	dentificati	on			ŀ	Tanks		Carg		Enviror Control		Fire	Special Require	ments		
Tnk Grp	Tanks in Group	Density	Press.	Temp.	Hull Typ	Cargo Seg Tank	Tuno	Vent	Gauge	Pipe Class	Cont	Tanks	Handling Space	Protection Provided	General	Materials of Construction	Elec	
A	#1C,#2C,#3C	13.6	Atmos.	Elev	1	1ii 2ii	Integral Gravity	PV	Closed	I	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	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.
  - 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

Cargo Identificatio	n					Conditions of Carriage					
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. Perio	
authorized Subchapter O Cargoes						277					
Sodium acetate solution	SAN	34	D/O 3			Α	No	N/A		_	
Acetonitrile	ATN	37	0	С		A	Yes	3	No	G	
Acrylonitrile	ACN	15 <sup>2</sup>	0	С	н	Α	Yes	4	.50-70(a), .55-1(e)	G	
Adiponitrile	ADN	37	0	Е	ll .	Α	Yes	1	Na	G	
Alkyl (C7-C9) nitrates	AKN	34 2	0	NA	III	Α	No	N/A		G	
Aminoethyl ethanolamine	AEE	8	0	E	III	Α	Yes	1	.55-1(b)	G	
Ammonium bisulfite solution (70% or less)	ABX	43 2	0	NA	- 611	Α	No	N/A		G	
Ammonium hydroxide (28% or less NH3)	AMH	6	0	NA	111	Α	No	N/A		G	
Anthracene oil (Coal tar fraction)	AHO	33	0	NA	II	Α	No	N/A		G	
Benzene	BNZ	32	0	C	Ш	Α	Yes	1	.50-60	G	
Benzene or hydrocarbon mixtures (having 10% Benzene or more)	ВНВ	32 <sup>2</sup>		С	III	Α	Yes	1	.50-60	G	
Benzene or hydrocarbon mixtures (containing Acetylene and 10% Benzene or more)	ВНА	32 <sup>2</sup>	0	С	111	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	Ш	Α	Yes	1	.50-60	G	
Butyl acrylate (all isomers)	BAR	14	0	D	101	Α	Yes	2	.50-70(a), .50-81(a), (b)	G	
Butyl methacrylate	BMH	14	0	Đ	Ш	Α	Yes	2	.50-70(a), .50-81(a), (b)	G	
Butyraldehyde (all isomers)	BAE	19	0	С	Ш	Α	Yes	1	.55-1(h)	G	
Camphor oil (light)	CPC	18	0	D	H	Α	No	N/A	No No	G	
Carbon tetrachloride	CBT	36	0	NA	Ш	Α	No	N/A	No No	G	
Caustic potash solution	CPS	5 <sup>2</sup>	0	NA	111	Α	No	N/A	,50-73, ,55-1(j)	G	
Caustic soda solution	CSS	5 2	0	NA	111	Α	No	N/A	.50-73, .55-1(j)	G	
Chemical Oil (refined, containing phenolics)	COL	21	0	E	11	Α	No	N/A	,50-73	G	
Chlorobenzene	CRE	36	0	D	Ш	Α	Yes	1	No	G	
Chloroform	CRF	36	0	NA	111	Α	Yes	3	No	G	
Coal tar naphtha solvent	NCT	33	0	D	III	Α	Yes	11_	.50-73	G	
Coal tar pitch (molten)	СТР	33	0	E	111	Α.	No	N//	ų .50-73	G	
Creosote	CCV	V 21 2	2 0	E	Ш	Α	Yes	1	No	G	
Cresols (all isomers)	CRS	21	0	E	111	Α	Yes	s 1	No	G	
Cresylate spent caustic	CSC	5	0	NA	Ш	Α	No	N/A	Δ .50-73, .55-1(b)	G	
Cresylic acid tar	CRX	21	0	E	ш	Α	Yes	s 1	.55-1(I)	G	
Crotonaldehyde	CTA	19	2 0	С	- 11	Α	Yes	s 4	.55-1(h)	G	



Serial #: C1-1804442 Dated:

27-Nov-18

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Cargo Authority Attachment

Vessel Name: HFL 204S

Shipyard: TRINITY MARINE GROUP,

CARUTHERSVILLE,

МО

Hull #: 6078-3

Official #: 1291095

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Cargo Identification	on					Conditions of Carriage					
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	Vapor Re App'd (Y or N)	VCS	Special Requirements in 46 CFR 151 General and Mat'ls of Construction	Insp. Period	
Crude hydrocarbon feedstock (containing Butyraldehydes and Ethylpropyl acrolein)	СНС	19 ²	0	С	III	Α	Yes	1	No	G	
Cyclohexanone	CCH	18	0	D	Ш	Α	Yes	1	.56-1(a), (b)	G	
Cyclohexanone, Cyclohexanol mixture	CYX	18 <sup>2</sup>	0	E	111	Α	Yes	1	.56-1 (b)	G	
Cyclohexylamine	CHA	7	0	D	111	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	Ε	111	Α	Yes	2	.50-70(a), .50-81(a), (b), .55-1(c)	G	
Dichlorobenzene (all isomers)	DBX	36	0	Ε	111	Α	Yes	3	.56-1(a), (b)	G	
1,1-Dichloroethane	DCH	36	0	С	111	Α	Yes	1	No	G	
2,2'-Dichloroethyl ether	DEE	41	0	D	II	Α	Yes	1	.55-1(f)	G	
Dichloromethane	DCM	36	0	NA	III	Α	Yes	5	No	G	
2,4-Dichlorophenoxyacetic acid, diethanolamine salt solution	DDE	43	0	Е	111	Α	No	N/A	.56-1(a), (b), (c), (g)	G	
2,4-Dichlorophenoxyacetic acid, dimethylamine salt solution	DAD	0 1	,2 0	Α	111	Α	No	N/A	.56-1(a), (b), (c), (g)	G	
2,4-Dichlorophenoxyacetic acid, triisopropanolamine salt solution	DTI	43 2	_	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	III	Α	Yes	3	No	G	
1,3-Dichloropropene	DPU	15	0	D	II	Α	Yes	4	No	G	
Dichloropropene, Dichloropropane mixtures	DMX		0	С	11	A	Yes	1	No	G	
Diethanolamine	DEA		0	E	H	A	Yes	1	.55-1(c)	G	
Diethylamine	DEN		0	c	100	A	Yes	3	.55-1(c)	G	
Diethylenetriamine	DET	7 2		E	III	A	Yes	1	.55-1(c)	G	
Diisobutylamine	DBU	7	0	D	151	A	Yes	3	.55-1(c)	G	
	DIP	8	0	E	111	A	Yes	1	.55-1(c)	G	
Diisopropanolamine	DIA	7		C	11		Yes	3	.55-1(c)	G	
Diisopropylamine	DAC	10	0	E		A			.56-1(b)	G	
N,N-Dimethylacetamide				D	101	A	Yes	3	.56-1(b), (c)	G	
Dimethylethanolamine	DMB		0	D	- 111	A	Yes	1	.55-1(e)	G	
Dimethylformamide	DMF	10	0		111	A	Yes	1	.55-1(c)	G	
Di-n-propylamine	DNA	7	0	C	II.	Α .	Yes	3	.56-1(b)	G	
Dodecyldimethylamine, Tetradecyldimethylamine mixture			0		- 111	Α.	No	N/A		G	
Dodecyl diphenyl ether disulfonate solution	DOS		0	#	11	Α.	No	N/A			
EE Glycol Ether Mixture	EEG	40	0	D	111	Α	No	N/A	No State	G	
Ethanolamine	MEA		0	E	111	Α	Yes	1	.55-1(c)	G	
Ethyl acrylate	EAC	14	0	С	BI	A	Yes	2	.50-70(a), .50-81(a), (b)	G	
Ethylamine solutions (72% or less)	EAN	7	0	Α	- 11	Α	Yes	6	.55-1(b)	G	
N-Ethylbutylamine	EBA	7	0	D	Ш	Α	Yes	3	.55-1(b)	G	
N-Ethylcyclohexylamine	ECC	19/19/	0	D	111	Α	Yes	1	.55-1(b)	G	
Ethylene cyanohydrin	ETC	20	0	E	111	Α	Yes	1	No	G	
Ethylenediamine	EDA			D	H	Α	Yes	1	,55-1(c)	G	
Ethylene dichloride	EDC		0	С	m	Α	Yes	1	No	G	
Ethylene glycol hexyl ether	EGH		0	E	101	Α	No	N/A		G	
Ethylene glycol monoalkyl ethers	EGC		0	D/E	Ш	Α	Yes	1	No	G	
Ethylene glycol propyl ether	EGP	40	0	Ε	111	Α	Yes	11	No	G	
2-Ethylhexyl acrylate	EAI	14	0	E	111	Α	Yes	2	.50-70(a), .50-81(a), (b)	G	
Ethyl methacrylate	ETM	14	0	D/E	H	Α	Yes	2	.50-70(a)	G	

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## Certificate of Inspection

Cargo Authority Attachment

Vessel Name: HFL 204S

Shipyard: TRINITY MARINE GROUP,

CARUTHERSVILLE,

MO

Hull #: 6078-3

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Official #: 1291095			Page 3	ot 9		Hull #: 6078-3						
Cargo Identification						Conditions of Carriage						
		Compat					Vapor F	Recovery	Special Requirements in 46 CFR	1		
Name	Chem	Group No	Sub Chapter	Grade	Hull Type	Tank Group	App'd (Y or N)	VCS	151 General and Mat'ls of Construction	Insp. Period		
2-Ethyl-3-propylacrolein	EPA	19 <sup>2</sup>	0	E	Ш	Α	Yes	1	No	G		
Formaldehyde solution (37% to 50%)	FMS	19 <sup>2</sup>	0	D/E	111	Α	Yes	1	.55-1(h)	G		
Furfural	FFA	19	0	D	Ш	Α	Yes	1	.55-1(h)	G		
Glutaraldehyde solutions (50% or less)	GTA	19	0	NA	Ш	Α	No	N/A	No	G		
Hexamethylenediamine solution	HMC	7	0	E	III	Α	Yes	1	.55-1(c)	G		
Hexamethyleneimine	нмі	7	0	С	В	Α	Yes	1	.56-1(b), (c)	G		
Hydrocarbon 5-9	HFN	31	0	С	III	Α	Yes	1	.50-70(a), .50-81(a), (b)	G		
Isoprene	IPR	30	0	Α	III	Α	Yes	7	.50-70(a), .50-81(a), (b)	G		
Isoprene, Pentadiene mixture	IPN	30	0	В	III	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)		5	0	NA	III	Α	No	N/A		G		
Mesityl oxide	MSO	18 <sup>2</sup>	0	D	Ш	Α	Yes	1	No	G		
Methyl acrylate	MAM	14	0	С	III	Α	Yes	2	.50-70(a), .50-81(a), (b)	G		
Methylcyclopentadiene dimer	MCK	30	0	С	10	Α	Yes	1	No	G		
Methyl diethanolamine	MDE	8	0	E	111	Α	Yes	1	.56-1(b), (c)	G		
2-Methyl-5-ethyl pyridine	MEP	9	0	Е	111	Α	Yes	1	.55-1(e)	G		
Methyl methacrylate	MMN	1 14	0	С	III	Α	Yes	2	.50-70(a), .50-81(a), (b)	G		
2-Methylpyridine	MPR		0	D	111	Α	Yes	3	,55-1(c)	G		
alpha-Methylstyrene	MSR		0	D	III	Α	Yes	2	.50-70(a), .50-81(a), (b)	G		
Morpholine	MPL	72		D	III	Α	Yes		.55-1(c)	G		
Naphthalene (molten)	NTM		o	C	Ш	Α	Yes		No	G		
Nitroethane	NTE	42	0	D	- 11	A	No	N/A	.50-81, .56-1(b)	G		
	NPM		0	D		A	Yes		.50-81	G		
1- or 2-Nitropropane	PDE	30	0	A	111	A	Yes		.50-70(a), .50-81	G		
1,3-Pentadiene	PER	36	0	NA	10	Α	No	N/A		G		
Perchloroethylene	PAN	11	0	E	111	A	Yes		No	G		
Phthalic anhydride (molten)	PEB	72		E	111	A	Yes		.55-1(e)	G		
Polyethylene polyamines									,55-1(c)	G		
iso-Propanolamine	MPA		0	E	101	A	Yes		,56-1(b), (c)	6		
Propanolamine (iso-, n-)	PAX	8	0	E		A	Yes		.55-1(c)	G		
Isopropylamine	IPP	7	0	Α		Α	Yes		.55-1(e)	G		
Pyridine	PRD		0	С	- 111	A	Yes					
Sodium acetate, Glycol, Water mixture (3% or more Sodium Hydroxide)	SAP	5	0		III 	Α	No	N/A		G		
Sodium aluminate solution (45% or less)	SAU	5	0	NA	111	A	No	N/A		G		
Sodium chlorate solution (50% or less)	SDD			NA	111	A	No	N/A		G		
Sodium hypochlorite solution (20% or less)	SHQ		0	NA	111	A	No	N/A				
Sodium sulfide, hydrosulfide solution (H2S 15 ppm or less)	SSH			NA	111	Α	Yes		.50-73, .55-1(b)	G		
Sodium sulfide, hydrosulfide solution (H2S greater than 15 ppm but less than 200 ppm) $$	SSI	0		NA	111	Α	No	N/A		G		
Sodium sulfide, hydrosulfide solution (H2S greater than 200 ppm)	SSJ	0 '	900	NA	II	Α	No	N/A		G		
Styrene (crude)	STX		0	D	HI	Α	Yes		No	G		
Styrene monomer	STY		0	D	III	Α	Yes		.50-70(a), .50-81(a), (b)	G		
1,1,2,2-Tetrachloroethane	TEC	36	0	NA	Ш	Α	No	N/A		G		
Tetraethylene pentamine	TTP	7	0	E	Ш	Α	Yes		.55-1(c)	G		
Tetrahydrofuran	THF	41	0	С	III	Α	Yes	1	.50-70(b)	G		
Toluenediamine	TDA	9	0	E	11	Α	No	N/A	,50-73, .56-1(a), (b), (c), (g)	G		

27-Nov-18

# Certificate of Inspection

Cargo Authority Attachment

Vessel Name: HFL 204S

Shipyard: TRINITY MARINE GROUP, CARUTHERSVILLE,

Hull #: 6078-3

Official #: 1291095

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Cargo Identificatio	n					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 Construction	Insp. Period		
1,2,4-Trichlorobenzene	тсв	36	0	E	111	Α	Yes	1	No	G		
1,1,2-Trichloroethane	TCM	36	0	NA	111	Α	Yes	1	.50-73, .56-1(a)	G		
Trichloroethylene	TCL	36 <sup>2</sup>	0	NA	111	Α	Yes	1	No	G		
1,2,3-Trichloropropane	TCN	36	0	Е	- 11	Α	Yes	3	50-73, .56-1(a)	G		
Triethanolamine	TEA	8 2	0	Ε	111	Α	Yes	1	.55-1(b)	G		
Triethylamine	TEN	7	0	С	11	Α	Yes	3	.55-1(e)	G		
Triethylenetetramine	TET	7 2	0	Е	III	Α	Yes	1	.55-1(b)	G		
Triphenylborane (10% or less), caustic soda solution	TPB	5	0	NA	111	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	111	Α.	No	N/A	.56-1(b)	G		
Vanillin black liquor (free alkali content, 3% or more).	VBL	5	0	NA	III	Α	No	N/A	.50-73, 56-1(a), (c), (g)	G		
Vinyl acetate	VAM	13	0	С	Ш	Α	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		
Vinyltoluene	VNT	13	0	D	[II]	Α	Yes	2	.50-70(a), .50-81, .56-1(a), (b), (c), (	G		
Subchapter D Cargoes Authorized for Vapor Contr	ol											
Acetone	ACT	18 <sup>2</sup>	D	С		Α	Yes	1				
Acetophenone	ACP	18	D	E		Α	Yes	1				
Alcohol (C6-C17) (secondary) poly(3-6) ethoxylates	AEA	20	D	Е		Α	Yes	1				
Alcohol (C6-C17) (secondary) poly(7-12) ethoxylates	AEB	20	D	Е		Α	Yes	1				
Amyl acetate (all isomers)	AEC	34	D	D		Α	Yes	1				
Amyl alcohol (iso-, n-, sec-, primary)	AAI	20	D	D		Α	Yes	1				
Benzyl acetate	BZE	34	D	E		Α	Yes	1				
Benzyl alcohol	BAL	21	D	E		Α	Yes	1_				
Brake fluid base mixtures (containing Poly(2-8)alkylene(C2-C3) glycols, Polyalkylene(C2-C10) glycol monoalkyl(C1-C4) ethers, and their borate esters)	BFY	20	D	E		Α	Yes	1				
Butyl acetate (all isomers)	BAX	34	D	D		Α	Yes	1				
Isobutyl alcohol	IAL	20 <sup>2</sup>	: D	D		Α	Yes	1				
Butyl alcohol (n-)	BAN	20 <sup>2</sup>	D	D		Α	Yes	1				
Butyl alcohol (sec-)	BAS	20 <sup>2</sup>	D	С		Α	Yes	1				
Butyl alcohol (tert-)	BAT	20 2	. D	С		Α	Yes	1				
Butyl benzyl phthalate	ВРН	34	D	E		Α	Yes	1				
Butyl toluene	BUE	32	D	D		Α	Yes	1				
Caprolactam solutions	CLS	22	D	Е		Α	Yes	1				
Cycloheptane	CYE	31	D	С		Α	Yes	1				
Cyclohexane	СНХ	31	D	C		Α	Yes	1				
Cyclohexanol	CHN	20	D	Ē		Α	Yes	1				
Cyclohexyl acetate	CYC	34	D	D		Α	Yes	1				
1,3-Cyclopentadiene dimer (molten)	CPD	30	D	D/E		Α	Yes	2				
Cyclopentane	CYP	31	D	В		Α	Yes	1				

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# Certificate of Inspection

Cargo Authority Attachment

Vessel Name: HFL 204S

Shipyard: TRINITY MARINE GROUP, CARUTHERSVILLE,

MO

Hull #: 6078-3

Cargo Iden	tification					Conditions of Carriage					
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Hull ade Type	Tank Group	App'd	Recovery VCS Category	Special Requirements in 46 CFR 151 General and Mat'ls of y Construction	Insp. Period	
p-Cymene	CMP	32	D	D		Α	Yes	1_			
iso-Decaldehyde	IDA	19	D	E		Α	Yes	1			
n-Decaldehyde	DAL	19	D	Е		Α	Yes	1			
Decanoic acid	DCO	4	D	#		Α.	Yes	1			
Decene	DCE	30	D	D		Α	Yes	1			
Decyl alcohol (all isomers)	DAX	20 2	2 D	Ε		Α	Yes	1			
n-Decylbenzene, see Alkyl(C9+)benzenes	DBZ	32	D	Е		Α	Yes	1			
Diacetone alcohol	DAA	20 2	2 D	D		Α	Yes	1			
Dibutyl phthalate	DPA	34	D	Е		Α	Yes	1			
Diethylbenzene	DEB	32	D	D		Α	Yes	- 1			
Diethylene glycol	DEG	40	2 D	E		Α	Yes	1			
Diisobutylene	DBL	30	D	С		Α	Yes	1			
Diisobutyl ketone	DIK	18	D	D		Α	Yes	1_			
Diisopropylbenzene (all isomers)	DIX	32	D	E		Α	Yes	1_			
Dimethyl phthalate	DTL	34	D	Е		Α	Yes	1			
Dioctyl phthalate	DOP	34	D	Е		Α	Yes	1			
Dipentene	DPN	30	D	D		Α	Yes	1			
Diphenyl	DIL	32	D	D/I		Α	Yes	1			
Diphenyl, Diphenyl ether mixtures	DDC	33	D	E		Α	Yes	1			
Diphenyl ether	DPE	41	D	{E}		Α	Yes	1			
Dipropylene glycol	DPG	40	D	E		Α	Yes	. 1			
Distillates: Flashed feed stocks	DFF	33	D	Е		Α	Yes	1_			
Distillates: Straight run	DSR	33	D	Е		Α	Yes	: 1			
Dodecene (all isomers)	DOZ	30	D	D		Α	Yes	1			
Dodecylbenzene, see Alkyl(C9+)benzenes	DDB	32	D	Е		Α	Yes	1			
2-Ethoxyethyl acetate	EEA	34	D	D		Α	Yes	s 1			
Ethoxy triglycol (crude)	ETG	40	D	E		Α	Yes	1			
Ethyl acetate	ETA	34	D	С		Α	Yes	i 1			
Ethyl acetoacetate	EAA	34	D	Е		Α	Yes	1			
Ethyl alcohol	EAL	20	2 D	С		Α	Yes	1			
Ethylbenzene	ETB	32	D	С		Α	Yes	1			
Ethyl butanol	EBT	20	D	D		Α	Yes	3 1			
Ethyl tert-butyl ether	EBE	41	D	С		Α	Yes	1			
Ethyl butyrate	EBR	34	D	D		Α	Yes	s 1			
Ethyl cyclohexane	ECY	7 31	D	D	7.1	Α	Yes	s 1			
Ethylene glycol	EGL	_ 20	2 [	) E		Α	Yes	s 1			
Ethylene glycol butyl ether acetate	EMA	۹ 34	D	) E		Α	Yes	s 1			
Ethylene glycol diacetate	EGY	Y 34	C	) E		Α	Ye	s 1			

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## Certificate of Inspection

Cargo Authority Attachment

Vessel Name: HFL 204S

Shipyard: TRINITY MARINE

GROUP.

CARUTHERSVILLE,

Hull #: 6078-3

Official #: 1291095

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Cargo Identification									tions of Carriage	_
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	App'd (Y or N)	Recovery VCS Category	Special Requirements in 46 CFR 151 General and Marts of Construction	Insp. Period
Ethylene glycol phenyl ether	EPE	40	D	Е		Α	Yes	1		
Ethyl-3-ethoxypropionate	EEP	34	D	D		A	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	12121	Α	Yes	1		
Formamide	FAM	10	D	E		Α	Yes	_1_		
Furfuryl alcohol	FAL	20	2 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	GAT	33	D	C		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	GCF	20	2 D	Ε		Α	Yes	1		
Heptane (all isomers), see Alkanes (C6-C9) (all isomers)	КМН	( 31	D	С		Α	Yes	1		
n-Heptanoic acid	HEN	4	D	Е		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	Ε		Α	Yes	1		
Hexane (all isomers), see Alkanes (C6-C9)	HXS	31	2 D	B/C	:	Α	Yes	1		
Hexanoic acid	нхс	) 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	нхо	20	D	E		Α	Yes	: 1		
Isophorone	IPH	18	2 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	4		
Kerosene	KRS	33	D	D		Α	Yes	1		
Methyl acetate	МТТ	34	D	D		Α	Yes	1		
Methyl alcohol	MAL	_ 20	2 D	С		Α	Yes	1		
Methylamyl acetate	MAC	34	D	D		Α	Yes	1		
Methylamyl alcohol	MAA		D	D		Α	Yes			
Methyl amyl ketone	MAŁ		D	D		Α	Yes			
Methyl tert-butyl ether	MBE					Α	Yes			
Methyl butyl ketone	MBH		D			A	Yes			
Methyl butyrate	MBU		D			A	Yes			
Methylcyclohexane	MC'		D			Α	Yes			



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Vessel Name: HFL 204S

Shipyard: TRINITY MARINE GROUP,

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Hull #: 6078-3

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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 Construction	Insp. Period		
Methyl ethyl ketone	MEK	18 2	ם י	С		Α	Yes	1		=11		
Methyl heptyl ketone	мнк	18	D	D		Α	Yes	1				
Methyl isobutyl ketone	MIK	18 2	2 D	С		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	#	3	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	4				
Nonene (all isomers)	NON	30	D	D		Α	Yes	2				
Nonyl alcohol (all isomers)	NNS	20	2 D	E		Α	Yes	1				
Nonyl phenol	NNP	21	D	E		Α	Yes	1				
Nonyl phenol poly(4+)ethoxylates	NPE	40	D	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)	ОСХ	20	2 D	E		Α	Yes	1				
Octene (all isomers)	ОТХ	30	D	С		Α	Yes	2				
Oil, fuel: No. 2	оту	V 33	D	D/	E	Α	Yes	1				
Oil, fuel: No. 2-D	ОТО	33	D	D		Α	Yes	1				
Oil, fuel: No. 4	OFR	33	D	D/	E	Α	Yes	1				
Oil, fuel: No. 5	OFV	33	D	D/	E	Α	Yes	1				
Oil, fuel: No. 6	osx	33	D	E		Α	Yes	1				
Oil, misc: Crude	OIL	33	D	A	D	Α	Yes	: 1				
Oil, misc: Diesel	ODS	33	D	D/	E	Α	Yes	i 1				
Oil, misc: Gas, high pour	OGF	33	D	Е		Α	Yes	1				
Oil, misc: Lubricating	OLE	33	D	Ε		Α	Yes	1				
Oil, misc: Residual	ORL	. 33	D	Е		Α	Yes	s 1				
Oil, misc: Turbine	ОТЕ	33	D	Е		Α	Yes	s 1				
Pentane (all isomers)	PTY	31	D	Α		Α	Yes	5				
Pentene (all isomers)	РТХ	30	D	Α		Α	Yes	s 5				
n-Pentyl propionate	PPE	34	D	D		Α	Yes	s 1				
alpha-Pinene	PIO	30	D	D		Α	Yes	s 1				
beta-Pinene	PIP	30	D	D		Α	Yes	s 1				
Poly(2-8)alkylene glycol monoalkyl (C1-C6) ether	PAC	3 40	D	Е		Α	Ye	s 1				
Poly(2-8)alkylene glycol monoalkyl (C1-C6) ether acetate	PAF	34	D	Е		Α	Ye	s 1				
Polybutene	PLE	3 30	D	Е		Α	Ye	s 1				

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## Certificate of Inspection

Cargo Authority Attachment

Vessel Name: HFL 204S

Shipyard: TRINITY MARINE

GROUP,

CARUTHERSVILLE,

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Hull #: 6078-3

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Cargo Identification						Conditions of Carriage					
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Hull :	Tank Group	App'd	Recovery VCS Category	Special Requirements in 46 CFR 151 General and Mat'ls of Construction	Insp. Period	
Polypropylene glycol	PGC	40	D	E		Α	Yes	1			
Isopropyl acetate	IAC	34	D	С		Α	Yes	1			
n-Propyl acetate	PAT	34	D	С		Α	Yes	1			
isopropyl alcohol	IPA	20 2	2,3 D	С		Α	Yes	1			
n-Propyl alcohol	PAL	20 2	2 D	С		Α	Yes	1			
Propylbenzene (all isomers)	PBY	32	D	D		Α	Yes	1			
Isopropylcyclohexane	IPX	31	D	D		Α	Yes	1			
Propylene glycol	PPG	20	2 D	Ε		Α	Yes	1			
Propylene glycol methyl ether acetate	PGN	34	D	D		Α	Yes	1			
Propylene tetramer	PTT	30	D	D		Α	Yes	1			
Sulfolane	SFL	39	D	Ε		Α	Yes	1			
Tetraethylene glycol	TTG	40	D	E		Α	Yes	1			
Tetrahydronaphthalene	THN	32	D	Ε		Α	Yes	1			
Toluene	TOL	32	D	С		Α	Yes	1_			
Tricresyl phosphate (containing less than 1% ortho isomer)	TCP	34	D	Е		Α	Yes	1			
Triethylbenzene	TEB	32	D	E		Α	Yes	1			
Triethylene glycol	TEG	40	D	Е		Α	Yes	1			
Triethyl phosphate	TPS	34	D	Ε		Α	Yes	1			
Trimethylbenzene (all isomers)	TRE	32	D	{D}		Α	Yes	1			
Trixylyl phosphate	TRP	34	D	E		Α	Yes	1		N-SI	
1-Undecene	UDC	30	D	D/E		Α	Yes	1			
1-Undecyl alcohol	UND	20	D	Е		Α	Yes	1			
Xylenes (ortho-, meta-, para-)	XLX	32	D	D		Α	Yes	1			



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# Certificate of Inspection

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.

Cargo Authority Attachment

Vessel Name: HFL 204S Official #: 1291095

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Shipyard: TRINITY MARI

Hull #: 6078-3

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

Cargo Identification

Name

Chem Code

Compatability Group No.

Note 1

Note 2

Subchapter Subchapter D Subchapter O

Note 3

Grade

A, B, C

Note 4

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.

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

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

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

The cargo classification assigned to each flammable or combustible liquid. Grades inside of "{ }" indicate a provisional assignment based upon literature sources which were

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 20593-0001. 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 Recover Approved (Y or N) The vessel's tank group (as defined in Section 4) which is authorized for carriage of the named cargo.

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

#### Conditions of Carriage

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

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

VCS Category:

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

Category 1

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

Category 2

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

Category 3

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

Category 4 Category 5

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

Category 6

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

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

Category 7

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