

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

Certification Date: 29 May 2019 Expiration Date: 29 May 2024

Certificate of Inspection

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

	•			ř			· · · · · · · · · · · · · · · · · · ·	
Vessel Name		***************************************	Official Number	#MO Nu	mber	Cell Sign	Service	
KIRBY 29154			1252012				Tank B	arge
र प्रदेश स्थान र जाने का के की हैं								
Hailing Port			Hull Material	Hor	rsepower	Propulsion		
GIBSON, LA			Steel					
UNITED STA	TES		2.20.					
Place Built	774.F		Delivery Date	Keel Laid Date	Gross Tons	Net Tons	DWT	Length R-297.6
ASHLAND CI	LY, IN		17Apr2014	21Mar2014	R-1619  -	R-1619 i-		10
UNITED STA	TES				I <sup>-</sup>	•		
Owner	<u></u>	<u>,,, , , , , , , , , , , , , , , , , , </u>		Oper				
KIRBY INLAN	D MARINE LI	Þ			RBY INLAND 350 Market S	MARINE LP		
55 WAUGH DI HOUSTON, TX					annelview, T)			
UNITED STAT					ITED STATE			
This vessel mu 0 Certifled Life	ist be manne boatmen, 0 (	d with the fo Certified Tai	ollowing licensed nkermen, 0 HSC	i and unlicens Type Rating	ed Personne , and 0 GMD	el. Included in w ISS Operators.	vhich there m	iust be
0 Masters	<del></del>	O Licensed M		f Engineers		Dilers		
0 Chief Mates		0 First Class		Assistant Engin	_			
0 Second Mat	es	0 Radio Offic		and Assistant En	-			
0 Third Mates		0 Able Seam		i Assistant Engir	neers			
0 Master First		0 Ordinary S		nsed Engineers	winser			
0 Mate First C	lass Pilots	0 Deckhands		ified Member En		nne in addition t	o crew and	no Others. Total
Persons allow	ed: 0			er retsons in	CIEW, O PEIS	onto in addition i	- Clott, and	
Route Permi	itted And Co	nditions Of	Operation:					
Lakes, E	3ays, and	Sounds-	मं उन्हों <b>प्रश्नी</b>		***			
			re than twelv	e (12) miles	from shore	between St.	Marks and C	arrabelle,
Florida.								
								CFR Table 31.10- month period, the as soon as this
change in st	atus occurs.	<b></b>						
						-		· ·
***SEE NEX	T PAGE FO	R ADDITIO	NAL CERTIFI	CATE INFO	RMATION**	**	- \- 1	
i Inspection, Ma	rine Safety U	nit Port Arti	ring been comp nur certifled the cribed thereund	vessel, in all i	Arthur, TX, U respects, is Ir	INITED STATE  conformity will	S, the Office th the applica	r in Charge, Marine able vessel inspection
tame alla tila tr	ules and regu Annual/Pai	riodic/Re-in	spection		This certifica	ate issued by	大小好	what
Data	Zone	A/P/R	Signat	ure		. A. Hantal, 🕬	R uscg, s	y direction,
Date 5-/3-90	BTR LA			andry	Officer in Charge,		1 / 1	
10-25-21	HO0/64	·	Danny L	MURRAY	•		ety Unit Port	Arthur /
Clalle Menn	Not D	12		MNK	Inconstion Zero		· · · · · · · · · · · · · · · · · · ·	

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

New Orleans

· OMB No. 2115-0517



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

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### Certificate of Inspection

Vessel Name: KIRBY 29154

This tank barge is participating in the Eighth-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 Sector Houston-Galveston OCMI.

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

Exam Type

Next Exam

Last Exam

Prior Exam

DryDock

31Aug2031

12Aug2021

17Apr2014

Internal Structure

30Apr2024

23May2019

17Apr2014

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

Authorization:

Grade "A" and Lower and Specified Hazardous Cargoes.

Total Capacity

Highest Grade Type

Part151 Regulated

Part153 Regulated Part154 Regulated

29192

Barrels

Yes

No

No

### \*Hazardous Bulk Solids Authority\*

#### \*Loading Constraints - Structural\*

Tank Number	Max Cargo Weight per Tank (short tons)	Maximum Density (lbs/gal)
1 P/S	848	13.6
2 P/S	860	13.6
3 P/S	751	13.6

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

Hull Type	Maximum Load (short tons)	Maximum Draft (ft/in)	Max Density (lbs/gal)	Route Description
11	3814	10ft 0in	13.6	LBS, R
ш	4684	11ft 9in	13.6	LBS, R

#### \*Conditions Of Carriage\*

Only those cargoes named in the vessel's Cargo Authority Attachment (CAA), Serial No. C1-1400860, dated 14 Mar 2014, may be carried and then only in the tanks indicated.

As 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 the figures, tables, and appendices of 46 CFR 150 in conjunction with the reactive group numbers from the "COMPAT GRP NO" column listed in the vessel's CAA.

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

Cargo tank maximum design working pressure is 3.00 psig.

### \*Vapor Control Authorization\*

As per 46 CFR Part 39, excluding part 39.40, this vessel's vapor control system has been inspected to the plans approved by Marine Safety Center letter Serial No. C1-1400860, dated 14 Mar 2014, and has been found acceptable for the collection of bulk liquid cargo vapors annotated with "Yes" in the VCS column of the vessel's CAA.

Per 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.

\*Stability and Trim\*



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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 13.6 lbs/gal, may be carried as slack loads, but shall not exceed the tank weight limits as listed below.

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

### --- Inspection Status ---

#### \*Cargo Tanks\*

	Internal Exa	m		External Exa	m	
Tank Id	Previous	Last	Next	Previous	Last	Next
1 P/S		17Apr2014	30Apr2024		₩)	#I
2 P/S	-	17Apr2014	30Apr2024	2		₩.:
3 P/S		17Apr2014	30Apr2024		=	<del></del>
- 80			Hydro Test			
Tank Id	Safety Valve	es	Previous	Last	Next	
1 P/S	-			17Apr2014	·	
2 P/S				17Apr2014		
3 P/S			-	17Apr2014	12	

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

Required Only During Transfer of Cargo or Operation of Barge Machinery

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

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

Quantity

Class Type

2

B-II

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



Serial #:

C1-1400860

14-Mar-14



## Certificate of Inspection

### Cargo Authority Attachment

Vessel Name: **SMI 30060**Official #: 1252012

Shipyard: Trinity Ashland City

Hull #: 5043

46	CFR	151	Tank	Group	Characteristics

Tank Group Information	Cargo Identification		dentification		Cargo		Tanks		Carg Tran		Enviror Control	nmental	Fire	Special Require	ments		
Tnk Grp Tanks in Group	Density	Press.	Temp.	Hull Typ	Seg Tank	_	Vent	Gauge	Pipe Class	Cont	Tanks	Handling Space	Protection Provided	General	Materials of Construction		Temp Cont
A #1P/S, #2P/S, #3P/S	13.6	Atmos.	Amb.	П	1ii 2ii	Integral Gravity	PV	Closed	II	G-1	NR	NA	Portable	.50-60, .50-70(a), .50-70(b), .50-73, .50-81(a), .50- 81(b),	55-1(b), (c), (e), (f), (j), 56-1(a), (b), (c), (d), (e), (f), (g),	NR	No

Notes: 1. Under Environmental Control, Tanks, NR means that the tank group is suitable only for those cargoes which require no environmental control in the cargo tanks.

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



C1-1400860

ed: 14-Mar-14



## Certificate of Inspection

### Cargo Authority Attachment

Vessel Name: SMI 30060 Official #: 1252012

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Shipyard: Trinity Ashland City

Cargo Identificatio	n					1	Conditions of Carriage					
							Vapor R	ecovery		1.		
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	App'd (Y or N)	VCS Category	Special Requirements in 46 CFR 151 General and Mat'ls of	Insp. Period		
Cyclopentadiene, Styrene, Benzene mixture	CSB	30	0	D	III	Α	Yes	1	.50-60, .56-1(b)	G		
iso-Decyl acrylate	IAI	14	0	Ε	Ш	Α	Yes	2	.50-70(a), .50-81(a), (b), .55-1(c)	G		
Dichlorobenzene (all isomers)	DBX	36	0	Ε	Ш	Α	Yes	3	.56-1(a). (b)	G		
1,1-Dichloroethane	DCH	36	0	С	111	Α	Yes	. 1	No	G		
2,2'-Dichloroethyl ether	DEE	41	0	D	÷ II	Α	Yes	1	.55-1(f)	G		
Dichloromethane	DCM	36	0	NA	Ш	Α	Yes	5	No	G		
2,4-Dichlorophenoxyacetic acid, diethanolamine salt solution	DDE	43	0	E	- 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	0	E	Ш	A	No	N/A	.56-1(a), (b), (c), (g)	G		
1,1-Dichloropropane	DPB	36	0	С	111	А	Yes	3	No	G		
1,2-Dichloropropane	DPP	36	0	С	Ш	Α	Yes	3	No	G		
1,3-Dichloropropane	DPC	36	0	С	Ш	Α	Yes	3	No	G		
1,3-Dichloropropene	DPU	15	0	D	-11	Α	Yes	4	No	G		
Dichloropropene, Dichloropropane mixtures	DMX	15	0	С	. 11	Α	Yes	1	No	G		
Diethanolamine	DEA	8	0	Е	Ш	Α	Yes	1	.55-1(c)	G		
Diethylamine	DEN	7	0	С	111	Α	Yes	3	.55-1(c)	G		
Diethylenetriamine	DET	7 2	0	· E	Ш	Α	Yes	1	.55-1(c)	G		
Diisobutylamine	DBU	7	0	D	III	Α	Yes	3	.55-1(c)	G		
Diisopropanolamine	DIP	8	0	Е	III	Α	Yes	1	.55-1(c)	G		
Diisopropylamine	DIA	7	0	С	- 11	À	Yes	3	.55-1(c)	G		
N,N-Dimethylacetamide	DAC		0	E	111	Α	Yes	3	.56-1(b)	G		
Dimethylethanolamine	DME		0	D	III	Α	Yes	1	.56-1(b), (c)	G		
Dimethylformamide	DMF		0	D	III	Α	Yes	1	55-1(e)	G		
Di-n-propylamine	DNA		0	С	11	A	Yes	3	.55-1(c)	G		
Dodecyldimethylamine, Tetradecyldimethylamine mixture	DOT		0	E	111	A	No	N/A	.56-1(b)	G		
Dodecyl diphenyl ether disulfonate solution	DOS		0	#	11	A	No	N/A		G		
The second secon	EEG		0	D		A	No	N/A		G		
EE Glycol Ether Mixture	MEA		0	E	111	A	Yes	1	.55-1(c)	G		
Ethanolamine  Ethanolamine	EAC		0	С	111	A	Yes		.50-70(a), .50-81(a), (b)	G		
Ethyl acrylate	EAN		0	A		A	Yes		.55-1(b)	G		
Ethylamine solution (72% or less)	EBA		0	D	 	A	Yes		.55-1(b)	G		
N-Ethylbutylamine	ECC		0	D	111	A	Yes		.55-1(b)	G		
N-Ethylcyclohexylamine	ETC		0	E	111	A	Yes		No	G		
Ethylene cyanohydrin	EDA		0	D		A	Yes		.55-1(c)	Ğ		
Ethylenediamine	EDA		0	C .		A	Yes		No	G		
Ethylene dichloride	EGH		0	E	- 111	A	No	N/A		G		
Ethylene glycol hexyl ether			0	D/E	111	A	Yes		No	G		
Ethylene glycol monoalkyl ethers	EGC EGF		0	E E	111	A	Yes		No	G		
Ethylene glycol propyl ether		14	0	E	111	A	Yes		.50-70(a), .50-81(a), (b)	G		
2-Ethylhexyl acrylate	EAI		0	D/E		A	Yes		.50-70(a)	G		
Ethyl methacrylate	ETM		0	E	111	A	Yes		No	G		
2-Ethyl-3-propylacrolein	EPA			D/E		. A	Yes		.55-1(h)	G		
Formaldehyde solution (37% to 50%)	FMS		0		111	A	Yes		.55-1(h)	G		
Furfural	FFA		0	D			No	N/A		G		
Glutaraldehyde solution (50% or less)	GTA		0	NA	111	A			.55-1(c)	G		
Hexamethylenediamine solution	HMC		0	E	111	A	Yes		.56-1(b). (c)	G		
Hexamethyleneimine	HMI		0	С	. 11	Α.	Yes		.50-70(a), .50-81(a), (b)	G		
Hydrocarbon 5-9	HFN		0	C		A	Yes		.50-70(a), .50-81(a), (b)	G		
Isoprene	IPR	30	0	Α	Ш	Α	Yes	7	.50-10(a), .50-01(a), (b)	G.		

14-Mar-14



# Certificate of Inspection

### Cargo Authority Attachment

Vessel Name: SMI 30060 Official #: 1252012

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Shipyard: Trinity Ashland City

Cargo Identification	n e						Conditions of Carriage					
							Vapor F	Recovery				
Name	Chem	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	App'd (Y or N)	VCS Category	Special Requirements in 46 CFR 151 General and Mat'ls of	Insp. Period		
Isoprene, Pentadiene mixture	IPN		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)	KPL	5	0	NA	III	A	No	N/A	.50-73, .56-1(a), (c), (g)	G		
Mesityl oxide	MSO	18 <sup>2</sup>	0	D	Ш	Α	Yes	1	No	G		
Methyl acrylate	MAM	14	0	С	111	Α	Yes	2	.50-70(a), .50-81(a), (b)	G		
Methylcyclopentadiene dimer	MCK	30	0	С	Ш	Α	Yes	1	No	G		
Methyl diethanolamine	MDE	8	0	Е	Ш	Α	Yes	. 1	.56-1(b). (c)	G		
2-Methyl-5-ethylpyridine	MEP	9	0	E	111	Α	Yes	1	.55-1(e)	G		
Methyl methacrylate	MMM	14	0	С	III	Α	Yes	2	.50-70(a), .50-81(a), (b)	G		
2-Methylpyridine	MPR	9	0	D	III	Α	Yes	3	.55-1(c)	G		
alpha-Methylstyrene	MSR	30	0	D	III	Α	Yes	2	.50-70(a), .50-81(a), (b)	G		
Morpholine	MPL	7 2	0	D	. 111	Α	Yes	1	.55-1(c)	G		
Nitroethane	NTE	42	0	D	П	Α	No	N/A	.50-81, .56-1(b)	G		
1- or 2-Nitropropane	NPM	42	0	D	Ш	Α	Yes	1	.50-81	G		
1,3-Pentadiene	PDE	30	0	Α	Ш	Α	Yes	7	.50-70(a), .50-81	G		
Perchloroethylene	PER	36	0	NA	Ш	Α	No	N/A	No	G		
Polyethylene polyamines	PEB	7 2	0	Е	Ш	Α	Yes	1	.55-1(e)	G		
iso-Propanolamine	MPA	8	0	E	III	Α	Yes	1	.55-1(c)	G		
Propanolamine (iso-, n-)	PAX	8	0	E	Ш	Α	Yes	1	.56-1(b), (c)	G		
iso-Propylamine	IPP	7	0	Α	П	Α	Yes	5	.55-1(c)	G		
Pyridine	PRD	9	0	С	Ш	Α	Yes	- 1	.55-1(e)	G		
Sodium acetate, Glycol, Water mixture (3% or more Sodium Hydroxide)	SAP		0		Ш	Α	No	N/A	.50-73, .55-1(j)	G		
Sodium aluminate solution (45% or less)	SAU	5	0	NA	Ш	Α	No	N/A	.50-73, .56-1(a), (b), (c)	G		
Sodium chlorate solution (50% or less)	SDD	0 1,2	0	NA	Ш	Α	No	N/A	.50-73	G		
Sodium hypochlorite solution (20% or less)	SHQ	5	0	NA	Ш	Α	No	N/A	.50-73, .56-1(a), (b)	G		
Sodium sulfide, hydrosulfide solution (H2S 15 ppm or less)	SSH	0 1,2	0	NA	Ш	Α	Yes	1	.50-73, .55-1(b)	G		
Sodium sulfide, hydrosulfide solution (H2S greater than 15 ppm but less than 200 ppm)	SSI	0 1,2	0	NA	Ш	Α	No	N/A	.50-73, .55-1(b)	G		
Sodium sulfide, hydrosulfide solution (H2S greater than 200 ppm)	SSJ	0 1,2	0	NA	11	Α	No	.N/A	.50-73, .55-1(b)	G		
Styrene (crude)	STX		0	D	III	Α	Yes	2	No	G		
Styrene monomer	STY	30	0	D	III	Α	Yes	2	.50-70(a), .50-81(a), (b)	G		
1,1,2,2-Tetrachloroethane	TEC	. 36	0	NA	111	Α	No	N/A	No	G		
Tetraethylenepentamine	TTP	7	0	Е	III	Α	Yes		.55-1(c)	G		
Tetrahydrofuran	THF	41	0	С	Ш	Α	Yes		.50-70(b)	G		
Toluenediamine	TDA	9	0	E	II	Α	No	N/A	.50-73, .56-1(a), (b), (c), (g)	G		
1,2,4-Trichlorobenzene	ТСВ	36	0	Е	. 111	Α	Yes		No .	G		
1,1,2-Trichloroethane	TCM	36	0	NA	III	Α	Yes		.50-73, .56-1(a)	G		
Trichloroethylene	TCL	36 <sup>2</sup>	0	NA	Ш	Α	Yes		No	G		
1,2,3-Trichloropropane	TCN	36	0	E	İl	Α	Yes		.50-73, .56-1(a)	G		
Triethanolamine	TEA	8 2	0	E	III	Α	Yes		.55-1(b)	G		
Triethylamine	TEN	7	0	С	11	Α	Yes		.55-1(e)	G		
Triethylenetetramine	TET	7 2	0	E	III	Α	Yes		.55-1(b)	G		
Triphenylborane (10% or less), caustic soda solution	TPB	5	0	NA	III	Α	No	N/A	.56-1(a), (b), (c)	G		
Trisodium phosphate solution	TSP	5	0	NA	10	Α	No	N/A	.50-73, .56-1(a), (c).	G		
Urea, Ammonium nitrate solution (containing more than 2% NH3)	UAS	6	0	NA	III	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		0	C	III	A	Yes		.50-70(a), .50-81(a), (b)	G		
Vinyl neodecanate	VND	13	0	E	III	A	No	N/A	.50-70(a), .50-81(a), (b)	G		

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Cargo Authority Attachment

Vessel Name: SMI 30060 Official #: 1252012

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Shipyard: Trinity Ashland City

Cargo Identification	n					Conditions of Carriage						
								Recovery				
Name	Chem	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	App'd (Y or N)	VCS Category	Special Requirements in 46 CFR 151 General and Mat'ls of	Insp. Period		
Vinyltoluene	VNT	13	0	D	III	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(C12-C16) poly(1-6)ethoxylates	APU	20	D	Е		Α	Yes	1 1				
Alcohol(C6-C17)(secondary) poly(7-12)ethoxylates	AEB	20	D	E		Α	Yes	- 1				
Amyl acetate (all isomers)	AEC	34	D	D		Α	Yes	1				
Amyl alcohol (iso-, n-, sec-, primary)	AAI	20	D	D		Α	Yes	1 .				
Benzyl alcohol	BAL	21	D	Е		Α	Yes	1				
Brake fluid base mixtures (containing Poly(2-8)alkylene(C2-C3) glycols, Polyalkylene(C2-C10) glycol monoalkyl(C1-C4) ethers, and their borate esters)	BFX	20	D	Е		Α	Yes	1				
Butyl acetate (all isomers)	BAX	34	D	D		Α	Yes	1				
Butyl alcohol (iso-)	IAL	20 <sup>2</sup>	D	D		Α	Yes	1	v			
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		D	С		Α	Yes	1				
Butyl benzyl phthalate	BPH	34	D	E		Α	Yes	1				
Butyl toluene	BUE	32	D	D		Α	Yes	1				
Caprolactam solutions	CLS	22	D	E		A	Yes	1				
Cyclohexane	CHX	31	D	С		A	Yes	1				
Cyclohexanol	CHN	20	D	E		A	Yes	1				
	CPD	30	D	D/E		A	Yes	2				
1,3-Cyclopentadiene dimer (molten)	CMP	32	D	D		A	Yes	1				
p-Cymene	IDA	19	D	E		A	Yes	1				
iso-Decaldehyde		19	D	E		A	Yes	1				
n-Decaldehyde	DAL							1				
Decene	DCE	30	D	D		A	Yes					
Decyl alcohol (all isomers)	DAX	20 2	Ď	E		A	Yes	1				
n-Decylbenzene, see Alkyl(C9+)benzenes	DBZ	32	D	E		A	Yes					
Diacetone alcohol	DAA	20 2	D	D		A	Yes	1				
ortho-Dibutyl phthalate	DPA	34	D	E		A	Yes	1				
Diethylbenzene	DEB	32	D	D		A	Yes	1				
Diethylene glycol	DEG	40 2	D	E		Α	Yes	1				
Diisobutylene	DBL	30	D	С		Α	Yes	1				
Diisobutyl ketone	DIK	18	D	D		Α	Yes	1				
Diisopropylbenzene (all isomers)	DIX	32	D	E		Α	Yes	1				
Dimethyl phthalate	DTL	34	D	E		Α	Yes	1				
Dioctyl phthalate	DOP	34	D	E		Α	Yes	1				
Dipentene	DPN	30	D	D		Α	Yes	1				
Diphenyl	DIL	32	D	D/E		Α	Yes	1				
Diphenyl, Diphenyl ether mixtures	DDO	33	D	E		· A	Yes	1				
Diphenyl ether	DPE	41	D	{E}		Α	Yes	1				
Dipropylene glycol	DPG	40	D	E		Α	Yes	1				
Distillates: Flashed feed stocks	DFF	33	D	E		Α	Yes	1				
Distillates: Straight run	DSR	33	D	E		Α	Yes	1				
Dodecene (all isomers)	DOZ	30	D	D		Α	Yes	1				
Dodecylbenzene, see Alkyl(C9+)benzenes	DDB	32	D	E		Α	Yes	1				
2-Ethoxyethyl acetate	EEA	34	D	D		Α	Yes	1				

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## Certificate of Inspection

### Cargo Authority Attachment

Vessel Name: SMI 30060

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Shipyard: Trinity Ashland City

Cargo Identification	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	Insp. Period	
Ethoxy triglycol (crude)	ETG	40	D	E		Α	Yes	1			
Ethyl acetate	ETA	34	D	С		Α	Yes	1			
Ethyl acetoacetate	EAA	34	D	E		Α	Yes	1			
Ethyl alcohol	EAL	20 2	D	С		Α	Yes	1			
Ethylbenzene	ETB	32	D	С		A.	Yes	1			
Ethyl butanol	EBT	20	D	D		Α	Yes	1			
Ethyl tert-butyl ether	EBE	41	D	C		Α	Yes	1			
Ethyl butyrate	EBR	34	D	D		Α	Yes	1			
Ethyl cyclohexane	ECY	. 31	D	D		Α	Yes	1			
Ethylene glycol	EGL	20 <sup>2</sup>	D	E		Α	Yes	1			
Ethylene glycol butyl ether acetate	EMA	34	D	E		Α	Yes	1			
Ethylene glycol diacetate	EGY	34	D	E		Α	Yes	1	8.9		
Ethylene glycol phenyl ether	EPE	40	D	Ε		Α	Yes	1		2	
Ethyl-3-ethoxypropionate	EEP	34	D	D		Α	Yes	1			
2-Ethylhexanol	EHX	20	D	E		Α	Yes	1			
Ethyl propionate	EPR	34	D	С		Α	Yes	1			
Ethyl toluene	ETE	32	D	D.		Α	Yes	1			
Formamide	FAM	10	D	E		Α	Yes	1			
Furfuryl alcohol	FAL	20 <sup>2</sup>	D	E		Α	Yes	1			
Gasoline blending stocks: Alkylates	GAK	33	D	A/C		Α	Yes	1			
Gasoline blending stocks: Reformates	GRF	33	D	A/C		Α	Yes	1		-	
Gasolines: Automotive (containing not over 4.23 grams lead per gallon)	GAT	33	D	С		Α	Yes	1		250	
Gasolines: Aviation (containing not over 4.86 grams of lead per gallon)	GAV	33	D	С		Α	Yes	1			
Gasolines: Casinghead (natural)	GCS	33	D	A/C		Α	Yes	1			
Gasolines: Polymer	GPL	33	D	A/C		Α	Yes	. 1			
Gasolines: Straight run	GSR	33	D	A/C		Α	Yes	1			
Glycerine	GCR	20 2	D	Е		Α	Yes	1			
Heptane (all isomers), see Alkanes (C6-C9) (all isomers)	HMX	31	D	С		Α	Yes	1			
Heptanoic acid	HEP	4	D	E		Α	Yes	1			
Heptanol (all isomers)	HTX	20	D	D/E		Α	Yes	1			
Heptene (all isomers)	HPX	30	D	С		Α	Yes	2			
Heptyl acetate	HPE	34	D	E		Α	Yes	1			
Hexane (all isomers), see Alkanes (C6-C9)	HXS	31 <sup>2</sup>	D	B/C		Α	Yes	1			
Hexanoic acid	НХО	4	D	E		Α	Yes	1			
Hexanol	HXN	20	D	D		Α	Yes	1			
Hexene (all isomers)	HEX	30	D	С		Α	Yes	2			
Hexylene glycol	HXG		D	E		Α	Yes	1.			
Isophorone	· IPH	18 <sup>2</sup>	D	E		Α	Yes	1			
Jet fuel: JP-4	JPF	33	D	Е		Α	Yes	1			
Jet fuel: JP-5 (kerosene, heavy)	JPV	33	D	D		Α	Yes	1			
Kerosene	KRS	33	D	D		Α	Yes	1			
Methyl acetate	MTT	34	D	D		Α	Yes				
Methyl alcohol	MAL	20 <sup>2</sup>	D	С		Α	Yes				
Methylamyl acetate	MAC		D	D		Α	Yes	1			
Methylamyl alcohol	MAA		D	D		Α	Yes				
Methyl amyl ketone	MAK		D	D		Α	Yes				
								1			



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### Cargo Authority Attachment

Vessel Name: SMI 30060 Official #: 1252012

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Shipyard: Trinity Ashland City

Name  Methyl butyl ketone  Methyl butyrate  Methyl ethyl ketone  Methyl heptyl ketone  Methyl isobutyl ketone  Methyl naphthalene (molten)  Mineral spirits  Myrcene  Naphtha: Heavy  Naphtha: Petroleum  Naphtha: Solvent  Naphtha: Stoddard solvent  Naphtha: Varnish makers and painters (75%)	Chem Code MBK MBU MEK MHK MIK MNA	Compat Group No 18 34 18 <sup>2</sup> 18	Sub Chapter D D D	C	Hull Type	Tank Group	App'd	Category	Special Requirements in 46 CFR 151 General and Mat'ls of	Insp. Period
Methyl butyl ketone Methyl butyrate Methyl ethyl ketone Methyl heptyl ketone Methyl isobutyl ketone Methyl naphthalene (molten) Mineral spirits Myrcene Naphtha: Heavy Naphtha: Petroleum Naphtha: Solvent Naphtha: Stoddard solvent	MBK MBU MEK MHK MIK MNA	18 34 18 <sup>2</sup> 18 18 <sup>2</sup>	D D D	C		Group	(Y or N)	Category	Special Requirements in 46 CFR 151 General and Mat'ls of	
Methyl butyrate Methyl ethyl ketone Methyl heptyl ketone Methyl isobutyl ketone Methyl naphthalene (molten) Mineral spirits Myrcene Naphtha: Heavy Naphtha: Petroleum Naphtha: Solvent Naphtha: Stoddard solvent	MBU MEK MHK MIK MNA	34 18 <sup>2</sup> 18 18 <sup>2</sup>	D D	С			Yes	4		
Methyl ethyl ketone Methyl heptyl ketone Methyl isobutyl ketone Methyl naphthalene (molten) Mineral spirits Myrcene Naphtha: Heavy Naphtha: Petroleum Naphtha: Solvent Naphtha: Stoddard solvent	MEK MHK MIK MNA	18 <sup>2</sup> 18 18 <sup>2</sup>	D			1121		1		
Methyl heptyl ketone Methyl isobutyl ketone Methyl naphthalene (molten) Mineral spirits Myrcene Naphtha: Heavy Naphtha: Petroleum Naphtha: Solvent Naphtha: Stoddard solvent	MHK MIK MNA	18 18 <sup>2</sup>		0		Α	Yes	1		
Methyl heptyl ketone  Methyl isobutyl ketone  Methyl naphthalene (molten)  Mineral spirits  Myrcene  Naphtha: Heavy  Naphtha: Petroleum  Naphtha: Solvent  Naphtha: Stoddard solvent	MIK	18 2	D	C		Α	Yes	1		
Methyl naphthalene (molten) Mineral spirits Myrcene Naphtha: Heavy Naphtha: Petroleum Naphtha: Solvent Naphtha: Stoddard solvent	MNA		_	D		Α	Yes	1		
Mineral spirits Myrcene Naphtha: Heavy Naphtha: Petroleum Naphtha: Solvent Naphtha: Stoddard solvent		22	D	C		Α	Yes	1		
Mineral spirits Myrcene Naphtha: Heavy Naphtha: Petroleum Naphtha: Solvent Naphtha: Stoddard solvent	MNS	32	D	Е		Α	Yes	1		
Myrcene Naphtha: Heavy Naphtha: Petroleum Naphtha: Solvent Naphtha: Stoddard solvent		33	D	D		Α	Yes	1	e a	
Naphtha: Heavy Naphtha: Petroleum Naphtha: Solvent Naphtha: Stoddard solvent	MRE	30	D	D		Α	Yes	1		
Naphtha: Petroleum Naphtha: Solvent Naphtha: Stoddard solvent	NAG	33	D	#		Α	Yes	1		
Naphtha: Solvent Naphtha: Stoddard solvent	PTN	33	D	#		Α	Yes	1 -		
Naphtha: Stoddard solvent	NSV	33	D	D		Α	Yes	1		
	NSS	33	D	D		Α	Yes	1		
	NVM	33	D	С	10	Α	Yes	1		
Nonane (all isomers), see Alkanes (C6-C9)	NAX	31	D	D		Α	Yes	1		
Nonene (all isomers)	NON	30	D	D		Α	Yes	2		
Nonyl alcohol (all isomers)	NNS	20 <sup>2</sup>	D	E	0	Α	Yes	1		
Nonyl phenol	NNP	21	D	E		Α	Yes	1		
Nonyl phenol poly(4+)ethoxylates	NPE	40	D	E		A	Yes	1		
Octane (all isomers), see Alkanes (C6-C9)	OAX	31	D	C		Α	Yes	1		
Octanic (all isomers)	OAY	4	D	E		Α	Yes	1		
Octanol (all isomers)	OCX	20 2	D	E		A	Yes	1		
Octene (all isomers)	OTX	30	D	С		Α	Yes	2		
Octene (all isomers) Oil, fuel: No. 2	OTW	33	D	D/E		A	Yes	1		
Oil, fuel: No. 2-D	OTD	33	D	D		A	Yes	1		
	OFR	33	D	D/E		A	Yes	1		
Oil, fuel: No. 4	OFV	33	D	D/E		A	Yes	1		
Oil, fuel: No. 5	OSX	33	D	E		A	Yes	1-		
Oil, fuel: No. 6	OIL	33	D	C/D		A	Yes	1		
Oil, misc: Crude	ODS	33	D	D/E		A	Yes	1		
Oil, misc: Diesel	OGP	33	D	E .		A	Yes	1		
Oil, misc: Gas, high pour				. E		A	Yes	1		
Oil, misc: Lubricating	OLB	33	D					1		
Oil, misc: Residual	ORL	33	D	E		Α .	Yes	1		
Oil, misc: Turbine	OTB	33	D			A	Yes	5		
Pentane (all isomers)	PTY	31	D	A						
Pentene (all isomers)	PTX	30	D	A		A	Yes	5		
n-Pentyl propionate	PPE	34	D	D		A	Yes	1		
alpha-Pinene	PIO	30	D	D		Α	Yes	1		
beta-Pinene	PIP	30	D	D		A	Yes	- 1		
Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether	PAG	40	D	E		A	Yes	1		
Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether acetate	PAF	.34	D	E		A	Yes	1		
Polybutene	PLB	30	D	E		A	Yes	1		
Polypropylene glycol	PGC	40	D	E		A	Yes	1		
iso-Propyl acetate	IAC	34	D	C		A	Yes	1		
n-Propyl acetate	PAT	34	D	С		Α	Yes	1		
iso-Propyl alcohol	IPA	20 2	D	С		Α	Yes	1		
n-Propyl alcohol	PAL	20 <sup>2</sup>	D	С		Α	Yes	1		
Propylbenzene (all isomers)	PBY	32	D D	D D		Α	Yes	1		

Department of Homeland Security

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## Certificate of Inspection

### Cargo Authority Attachment

Vessel Name: SMI 30060

Official #: 1252012

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Shipyard: Trinity Ashland City

Cargo Identification						Conditions of Carriage				
							Vapor Recovery			
Name	Chem	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	App'd (Y or N)	VCS Category	Special Requirements in 46 CFR 151 General and Mat'ls of	Insp. Period
Propylene glycol	PPG	20 <sup>2</sup>	D	E		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	Е		Α	Yes	1		
Tetraethylene glycol	TTG	40	D	E		Α	Yes	1		
Tetrahydronaphthalene .	THN	32	D	E		Α	Yes	1		
Toluene	TOL	32	D	С		Α	Yes	1		
Tricresyl phosphate (less than 1% of the ortho isomer)	TCP	34	D	E		Α	Yes	1		
Triethylbenzene	TEB	32	D	E		Α	Yes	1		
Triethylene glycol	TEG	40	D	Ε		Α	Yes	1		
Triethyl phosphate	TPS	34	D ,	E		Α	Yes	1		
Trimethylbenzene (all isomers)	TRE	32	D	{D}		Α	Yes	1		
Trixylenyl phosphate	TRP	34	D	Ε		Α	Yes	. 1		
Undecene	UDC	30	D	D/E		Α	Yes	1		
1-Undecyl alcohol	UND	20	D	E		Α	Yes	1		
Xylenes (ortho-, meta-, para-)	XLX	32	D	D		Α	Yes	1		



Dated 14-Mar-14



## Certificate of Inspection

### Cargo Authority Attachment

Vessel Name: SMI 30060

Official #: 1252012

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Shipyard: Trinity Ashland

Hull #: 5043

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

Cargo Identification

Name Chem Code The proper shipping name as listed in 46 CFR Table 30.25-1, 46 CFR Table 151.05, and 46 CFR Part 153 Table 2.

The three letter designation assigned to the cargo in the Chemical Hazards Response Information System (CHRIS) Manual.

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 Chart. For additional compatibility information, contact Commandant (CG-3PSO-3), U.S. Coast Guard, 2100 Second Street, SW, Washington, DC 20593-0001. Telephone

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

Subchapter Subchapter D Subchapter O Note 3

Note 1 Note 2

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 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.

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

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 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

Tank Group Vapor Recover 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 crs. 156.120, 35 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

(Polymerizas) 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 39.20-9. requirement is in addition to the requirements of Category 1

(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