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

Certification Date: 03 Dec 2015 Expiration Date: 03 Dec 2920

Certificate of Inspection

For ships on internations, voyages this cartificate Autilia the requirements of SQLAS 74 as amended, requisition V/14 for a SAFE MANNING DOCUMENT

Vossa Nume	Offic al Number	IMO Number	Cal :	Sign	Service	
KIRBY 28042	1175021				Tank Barge	
	C44 C 4 C 4 C 4 C 4 C 4 C 4 C 4 C 4 C 4		to to hollowane material			
Hailing Port	lahetsh lioh	Form	ipowur	Propulsion		
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LINITED STATES	party of special and the second					
LIMITED STATES						
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GALVESTON, Texas	Dalvery Date	Kasi Laid Dale	Gross Tons	Net Tons	DWT	Langth
OALVESTON, TEXAS	20 <b>0at20</b> 05	01Aug2005	R-1619	R-1619		R-297 5
UNITED STATES			<b>J</b> a.	ŀ		<b>⊁0</b>
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KIRBY INLAND WARINE LP		,		MARINE, LP		
55 WAUGH DRIVE, SUITE 1000			2 1/2 DEZA			
HOUSTON, TX 77007 UNITED STATES			NNELVIEW ED STATES			
Cold to the same trans to grow to the top						
This vessel must be manned with the fo 0 Certified Lifeboatmen, 0 Certified Tan					hich there mus	at be
0 Masters	0 Licensed Mates	3	0 Chief Engine			Suallifled Mamber
p Chief Males	0 First Class Plicts		0 First Assistar	nt Engineers		Englneer Depts Di'ers
0 Second Mates	o Radio Officers		0 Second Assis	stant Engineers		Crew Members
e Third Males	0 Able Scomen		0 Third Assista	int Engineers		
Master Fret Clase Pilots	d Ordinary Seamen		O lacensed Eng	gineers		
O Mate First Class Pilots	0 Deckhands		Q Non Licensed	Engineer Depts		
In addition, this vessel may carry 0 Pass Persons allowed: 0	sengers, 0 Other	Persons in cre	w. 0 Person	s in addition to	o crew, and no	Others. Total
Route Permitted And Conditions Of	Operation:					
and akes Pavs, and Sounds-	CON COR					
Also, in fair weather only, not more than twelve (	12) miles from shore	e between St. Mar	ks and Carraba	ille. Florida.		
This vessel has been granted a fresh water sen months in any 12 month period, the vessel must	ice examination inte	rval 26 per 46 CF	31.10-21(a)(a	2). If this vassel	is operated in sal	water more than 6
monins in any 12 monin penda, me vessei musi writing as soon as this change in status occurs.	r be inspected using	SER WAREI HIRLINGI	s per 40 och .	21. 10-2 If all 11 en	tet stier confinement .	Comment of the commen
***SEE NEXT PAGE FOR ADDITION						14
With this Inspection for Certification hav	ing been comple	ted at Port Arti	rur Texas Ul	NITED STATE	ES, the Officer	in Charge, Marine
Inspection, Marine Safety Unit Port Arth laws and the rules and regulations press	ur certified the v	essel, 'n all res	pects, is in c	onformity with	the applicable	vessel inspection
Acquel/Periodic/Re-Ins	rection	This	certificate is	sued by:	70)	LLUAUSE,
Date 1000 August	phony continuous represent a star extension continue to the star		LTO'	BRIEN, COR.	USCG, By di	rection
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# United States of America Department of Homeland Security United States Coast Guard

Certification Date: 03 Dec 2015 Expiration Date: 03 Dec 2020

## Certificate of Inspection

Vessel Name: KIRBY 28042

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

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

Exam Type	Next Exam	Last Exam	Prior Exam
DryDock	03Dec2025	03Dec2015	31Oct2005
Internal Structure	03Dec2020	03Dec2015	24Sep2010

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

Authorization: Flammable, Combustible and Specified Hazardous Cargoes

Total Capacity Units Highest Grade Type Part151 Regulated Part153 Regulated Part154 Regulated

31660 Barrels A Yes No No

#### \*Hazardous Bulk Solids Authority\*

Not Authorized

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

Tank Location Description	Maximum Load (short tons)	Maximum Density (lbs/gal)
1 P/S	755	13.6
2 P/S	755	13.6
3 P/S	738	13.6

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

Hull Type	Max Cargo Weight/Tank (short tons)	Maximum Draft (Ft/In)	Max Density (lbs/gal)	Route Description
II -	3481	10ft 3in	13.6	LAKES, BAYS AND SOUNDS
II	3481	10ft 3in	13.6	RIVERS
III	4285	11ft Oin	13.6	LAKES, BAYS AND SOUNDS
III	4285	11ft Oin	13.6	RIVERS





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

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## Certificate of Inspection

Vessel Name: KIRBY 28042

#### \*Conditions Of Carriage\*

Only Grade "A" and lower cargoes and specified hazardous cargoes named in the vessel's Cargo Authority Attachment (CAA), serial #C1-1300016, dated 02-Jan-13, may be carried, and then only in the tanks indicated.

Per 46 CFR 150.130, the Person In Charge of the barge 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 reactive group numbers from the "COMPAT GROUP NO" column listed in the vessel's CAA.

46 CFR 151.45-2(b) contains restrictions on operation box and square end barges as the lead barges of tows.

\*Vapor Control Authorization\*

In accordance with 46 CFR 39, excluding part 39.40, this vessel's vapor control system (VCS) has been inspected to the plans approved by Marine Safety Center letters Serial #C2-9904654 dated 27Jul99 and Serial #C2-0001667 dated 06/12/2000, and found acceptable for collection of bulk liquid cargo vapors annotated with "Yes" in the CAA's VCS column.

In accordance with 46 CFR 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\*

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 design density of cargo which may be filled to the tank top is 8.745 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.

--- Inspection Status ---



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

Certification Date: 03 Dec 2015 **Expiration Date:** 03 Dec 2020

## Certificate of Inspection

Vessel Name: KIRRY 28042

\*Cargo Tanks\*

Tank Id 1 P/S

> Internal Exam External Exam

Previous Last Previous Last Next Next

31Oct2005 03Dec2015 03Dec2025 31Oct2005 03Dec2015 03Dec2020

> Hydro Test Safety Valves

Previous Last Next

03Oct2005

2 P/S Tank Id

> External Exam Internal Exam

Previous Last Next Previous Last Next 31Oct2005 03Dec2015 03Dec2025 31Oct2005 03Dec2015 03Dec2020

> Hydro Test Safety Valves

Previous Last Next

03Oct2005

3 P/S Tank Id

> Internal Exam External Exam

Previous Last Next Previous Last Next 31Oct2005 03Dec2015 03Dec2025 31Oct2005 03Dec2015 03Dec2020

Hydro Test Safety Valves

Previous Last Next

03Oct2005

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

Required Only During Transfer of Cargo or Operation of Barge Machinery

--- Fire Fighting Equipment ---

Number of Fireman Outfits -Number of Fire Pumps - 0

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

Quantity Class Type

2 B-II

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



Serial #: C1-1300016 Dated:

02-Jan-13

# Certificate of Inspection

### Cargo Authority Attachment

Vessel Name: KIRBY 28042 Shipyard: West Gulf Marine

Hull #: 155 Official #: 1175021

46 CFR 151 Tank  Tank Group Information		dentificati		lics	Corne		Tanks		Carg		Enviror	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	Elec	Temp
A #1P/S,#2P/S,#3P/S	13.6	Atmos.	Amb.	II	1ii 2ii	Integral Gravity	PV	Closed	11	G-1	NR	NA	Portable	.50-60, .50-70(a), .50-70(b), .50-73,	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.

List of Authorized Cargoes

	ATN ACN ADN	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	Vapor Re App'd (Y or N)		Special Requirements in 46 CFR	Insp. Period
Authorized Subchapter O Cargoes  Acetonitrile Acrylonitrile Adiponitrile Alkyl(C7-C9) nitrates Aminoethylethanolamine Ammonium bisulfite solution (70% or less) Ammonium hydroxide (28% or less NH3) Anthracene oil (Coal tar fraction) Benzene	ATN ACN	Group No	Chapter	Grade						
Acetonitrile Acrylonitrile Adiponitrile Alkyl(C7-C9) nitrates Aminoethylethanolamine Ammonium bisulfite solution (70% or less) Ammonium hydroxide (28% or less NH3) Anthracene oil (Coal tar fraction) Benzene	ACN		0					The second second	101 Ochara and watta of	Pellod
Acrylonitrile Adiponitrile Alkyl(C7-C9) nitrates Aminoethylethanolamine Ammonium bisulfite solution (70% or less) Ammonium hydroxide (28% or less NH3) Anthracene oil (Coal tar fraction) Benzene	ACN		0	DIAME!					The second	
Adiponitrile  Alkyl(C7-C9) nitrates  Aminoethylethanolamine  Ammonium bisulfite solution (70% or less)  Ammonium hydroxide (28% or less NH3)  Anthracene oil (Coal tar fraction)  Benzene		15 2	0	С	III	Α	Yes	3	No	G
Alkyl(C7-C9) nitrates Aminoethylethanolamine Ammonium bisulfite solution (70% or less) Ammonium hydroxide (28% or less NH3) Anthracene oil (Coal tar fraction) Benzene	ADN		0	С	11	Α	Yes	4	.50-70(a), .55-1(e)	G
Aminoethylethanolamine Ammonium bisulfite solution (70% or less) Ammonium hydroxide (28% or less NH3) Anthracene oil (Coal tar fraction) Benzene		37	0	E	11	Α	Yes	1	No	G
Ammonium bisulfite solution (70% or less)  Ammonium hydroxide (28% or less NH3)  Anthracene oil (Coal tar fraction)  Benzene	AKN	34 2	0	NA	III	Α	No	N/A	.50-81, .50-86	G
Ammonium hydroxide (28% or less NH3) Anthracene oil (Coal tar fraction) Benzene	AEE	8	0	E	III	Α	Yes	1	.55-1(b)	G
Anthracene oil (Coal tar fraction) Benzene	ABX	43 2	0	NA	III	Α	No	N/A	.50-73, .56-1(a), (b), (c)	G
Benzene	AMH	6	0	NA	111	Α	No	N/A	.56-1(a), (b), (c), (f), (g)	G
	AHO	33	0	NA	11	Α	No	N/A	No	G
Benzene or hydrocarbon mixtures (having 10% Benzene or more)	BNZ	32	0	C	111	Α	Yes	1	.50-60	G
	внв	32 <sup>2</sup>	0	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	III	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	III	Α	Yes	1	.50-60	G
Butyl acrylate (all isomers)	BAR	14	0	D	III	Α	Yes	2	.50-70(a), .50-81(a), (b)	G
Butyl methacrylate	вмн	14	0	D	111	Α	Yes	2	.50-70(a), .50-81(a), (b)	G
Butyraldehyde (all isomers)	BAE	19	0	С	III	Α	Yes	1	.55-1(h)	G
Camphor oil (light)	СРО	18	0	D	11	Α	No	N/A	No	G
Carbon tetrachloride	CBT	36	0	NA	III	Α	No	N/A	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	111	Α	No	N/A	.50-73, .55-1(j)	G
Chemical Oil (refined, containing phenolics)	COD	21	0	Е	11	Α	No	N/A	,50-73	G
Chlorobenzene	CRB	36	0	D	III	Α	Yes	1	No	G
Chloroform	CRF	36	0	NA	III	Α	Yes	3	No	G
Coal tar naphtha solvent	NCT	33	0	D	III	Α	Yes	1	.50-73	G
Creosote	CCM	/ 212	0	E	III	Α	Yes	1	No	G
Cresols (all isomers)	CRS	21	0	Е	- 111	Α	Yes	1	No	G
Cresylate spent caustic	CSC	5	0	NA	III	Α	No	N/A	.50-73, .55-1(b)	G
Cresylic acid tar	CRX		0	E	III	Α	Yes	1	.55-1(f)	G
Crotonaldehyde	CTA	19 2	0	С	11	Α	Yes	4	.55-1(h)	G
Crude hydrocarbon feedstock (containing Butyraldehydes and Ethylpropyl acrolein)	CHG		0	С	111	Α	No	N/A	No	G
Cyclohexanone	ССН	18	0	D	III	Α	Yes	1	.56-1(a), (b)	G
Cyclohexanone, Cyclohexanol mixture	CYX	18 <sup>2</sup>	0	E	III	Α	Yes	1	.56-1 (b)	G
Cyclohexylamine	CHA	7	0	D	III	Α	Yes	1	.56-1(a), (b), (c), (g)	G
Cyclopentadiene, Styrene, Benzene mixture	CSB							1	.50-60, .56-1(b)	G

<sup>2.</sup> Under Environmental Control, Handling Space, NR means that the tank group is suitable only for those cargoes which require no environmental control in the cargo handling space. NA means that the vessel does not have a cargo control space, and this requirement is not applied.

<sup>3.</sup> Under Electrical Hazard Class, NA means that the tank group is suitable only for those cargoes which have no electrical hazard class requirement. NR means that the vessel has no electrical equipment located in a hazardous location.



Certificate of Inspection

## Cargo Authority Attachment

Vessel Name: KIRBY 28042 Official #: 1175021

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Shipyard: West Gulf Marine

Serial #: C1-1300016

02-Jan-13

Cargo Identification	1						(	Condi	tions of Carriage	
							Vapor R	ecovery		1/2 2 2 2
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
iso-Decyl acrylate	IAI	14	0	E	III	Α	Yes	2	.50-70(a), .50-81(a), (b), .55-1(c)	G
Dichlorobenzene (all isomers)	DBX	36	0	E	Ш	Α	Yes	3	.56-1(a), (b)	G
1,1-Dichloroethane	DCH	36	0	С	III	Α	Yes	1	No	G
2,2'-Dichloroethyl ether	DEE	41	0	D	- 11	Α	Yes	1	.55-1(f)	G
Dichloromethane	DCM	36	0	NA	III	Α	Yes	5	No	G
2,4-Dichlorophenoxyacetic acid, diethanolamine salt solution	DDE	43	0	Е	Ш	Α	No	N/A	.56-1(a), (b), (c), (g)	G
2,4-Dichlorophenoxyacetic acid, dimethylamine salt solution	DAD	0 1,2	0	Α	III	Α	No	N/A	.56-1(a), (b), (c), (g)	G
2,4-Dichlorophenoxyacetic acid, triisopropanolamine salt solution	DTI	43 2	0	Е	III	Α	No	N/A	.56-1(a), (b), (c), (g)	G
1,1-Dichloropropane	DPB	36	0	С	III	Α	Yes	3	No	G
1,2-Dichloropropane	DPP	36	0	С	III	А	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	Α	Yes	4	No	G
Dichloropropene, Dichloropropane mixtures	DMX	15	0	С	Н	Α	Yes	1	No	G
Diethanolamine	DEA	8	0	E	III	А	Yes	1	.55-1(c)	G
Diethylamine	DEN	7	0	С	111	Α	Yes	3	.55-1(c)	G
Diethylenetriamine	DET	72	0	E	III	Α	Yes	1	.55-1(c)	G
Diisobutylamine	DBU	7	0	D	111	A	Yes	3	.55-1(c)	G
Diisopropanolamine	DIP	8	0	Е	111	Α	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	E	III	Α	Yes	3	.56-1(b)	G
Dimethylethanolamine	DMB	8	0	D	III	Α	Yes	1	.56-1(b), (c)	G
Dimethylformamide	DMF	10	0	D	111	Α	Yes	1	.55-1(e)	G
Di-n-propylamine	DNA	7	0	С	II.	A	Yes	3	.55-1(c)	G
Dodecyldimethylamine, Tetradecyldimethylamine mixture	DOT	7	0	Е	III	A	No	N/A	.56-1(b)	G
Dodecyl diphenyl ether disulfonate solution	DOS	43	0	#	II	A	No	N/A	No	G
EE Glycol Ether Mixture	EEG	40	0	D	III	Α	No	N/A	No	G
Ethanolamine	MEA	8	0	E	III	Α	Yes	1	.55-1(c)	G
Ethyl acrylate	EAC	14	0	C	111	A	Yes	2	.50-70(a), .50-81(a), (b)	G
Ethylamine solution (72% or less)	EAN	7	0	A	11	A	No	N/A	.55-1(b)	G
N-Ethylbutylamine	EBA	7	0	D	111	A	Yes	3	.55-1(b)	G
N-Ethylcyclohexylamine	ECC	7	0	D	III	A	Yes	1	.55-1(b)	G
Ethylene cyanohydrin	ETC	20	0	E	111	A	Yes	1	No	G
Ethylenediamine	EDA	7 2	0	D	III	A	Yes	1	.55-1(c)	G
	EDC	36 <sup>2</sup>	0	C	111	A	Yes	1	No	G
Ethylene dichloride	EGH	40	0	E	111	A	No	N/A	No	G
Ethylene glycol hexyl ether	EGC	40	0	D/E	III	A	Yes	1	No	G
Ethylene glycol monoalkyl ethers	EGP	40	0	E	III		1 4 4 4	1	No	G
Ethylene glycol propyl ether						Α	Yes	2	.50-70(a), .50-81(a), (b)	G
2-Ethylhexyl acrylate	EAI	14	0	E D/F	111	A	Yes	2	.50-70(a)	G
Ethyl methacrylate	ETM	14	0	D/E	111	A	Yes		No No	G
2-Ethyl-3-propylacrolein	EPA	19 2	0	E D/E	III	A	Yes	1	.55-1(h)	G
Formaldehyde solution (37% to 50%)	FMS	19 2	0	D/E	III	A	Yes	1	.55-1(h)	G
Furfural (Characteristics of 50% control)	FFA	19	0	D	111	A	Yes	1	No No	G
Glutaraldehyde solution (50% or less)	GTA	19	0	NA	111	A	No	N/A	.55-1(c)	- G
Hexamethylenediamine solution	НМС	7	0	E	III	A	Yes	1	.56-1(b), (c)	G
Hexamethyleneimine	HMI	7	0	C	11	A	Yes	1		G
Hydrocarbon 5-9	HFN	00	0	C	III	A	Yes	1	.50-70(a), .50-81(a), (b)	G
Isoprene	IPR	30	0	A	III	A	No	N/A	.50-70(a), .50-81(a), (b)	
Isoprene, Pentadiene mixture	IPN		0	В	111	Α	No	N/A	.50-70(a), .55-1(c)	G



Serial #: C1-1300016 Dated:

02-Jan-13

# Certificate of Inspection

Cargo Authority Attachment

Vessel Name: KIRBY 28042 Official #: 1175021

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Shipyard: West Gulf Marine

Cargo Identification	Cargo Identification										
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	
Kraft pulping liquors (free alkali content 3% or more)(including: Black Green, or White liquor)	, KPL	5	0	NA	111	А	No	N/A	.50-73, .56-1(a), (c), (g)	G	
Mesityl oxide	MSO	18 <sup>2</sup>	0	D	III	А	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	111	Α	Yes	1	No	G	
Methyl diethanolamine	MDE	8	0	E	III	Α	Yes	1	.56-1(b), (c)	G	
2-Methyl-5-ethylpyridine	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	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	72	0	D	111	Α	Yes	1	.55-1(c)	G	
Nitroethane	NTE	42	0	D	11	Α	No	N/A	.50-81, .56-1(b)	G	
1- or 2-Nitropropane	NPM	42	0	D	III	А	Yes	1	.50-81	G	
1,3-Pentadiene	PDE	30	0	Α	111	Α	No	N/A	.50-70(a), .50-81	G	
Perchloroethylene	PER	36	0	NA	III	A	No	N/A	No	G	
Polyethylene polyamines	PEB	72	0	E	111	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	III	A	Yes	1	.56-1(b), (c)	G	
iso-Propylamine	IPP	7	0	A	11	A	Yes	5	.55-1(c)	G	
Pyridine	PRD	9	0	C	III	A	Yes	1	.55-1(e)	G	
Sodium acetate, Glycol, Water mixture (3% or more Sodium Hydroxid			0		111	A	No	N/A	.50-73, .55-1(j)	G	
Sodium aluminate solution (45% or less)	SAU	5	0	NA	111	A	No	N/A	.50-73, .56-1(a), (b), (c)	G	
Sodium chlorate solution (50% or less)	SDD	0 1,2		NA	111	A	No	N/A	.50-73	G	
Sodium hypochlorite solution (20% or less)	SHQ	5	0	NA	111	A	No	N/A	.50-73, .56-1(a), (b)	G	
Sodium sulfide, hydrosulfide solution (H2S 15 ppm or less)	SSH	0 1,2		NA	III	A	Yes	1	.50-73, .55-1(b)	G	
Sodium sulfide, hydrosulfide solution (H2S greater than 15 ppm but less than 200 ppm)	SSI	0 1,2		NA	111	A	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	A	No	N/A	.50-73, .55-1(b)	G	
Styrene (crude)	STX		0	D	111	A	Yes	2	No	G	
Styrene monomer	STY	30	0	D	III	A	Yes	2	.50-70(a), .50-81(a), (b)	G	
1,1,2,2-Tetrachloroethane	TEC	36	0	NA	III	A	No	N/A	No	G	
	TTP	7	0	E	111	A	Yes	1	.55-1(c)	G	
Tetraethylenepentamine	THE	41	0	C	111	A	Yes	1	.50-70(b)	G	
Tetrahydrofuran Teluang diamina	TDA	9	0	E	II	A	No	N/A	.50-73, .56-1(a), (b), (c), (g)	G	
Toluenediamine	TCB	36	0	E	111	A	Yes	1	No	G	
1,2,4-Trichlorobenzene	TCM	36	0	NA	111	A	Yes	1	.50-73, .56-1(a)	G	
1,1,2-Trichloroethane	TCL	36 <sup>2</sup>	0	NA	III	A	Yes	1	No	G	
Trichloroethylene							-	3	.50-73, .56-1(a)	G	
1,2,3-Trichloropropane	TCN	36	0	E	11	A	Yes		.55-1(b)	G	
Triethanolamine Triethanolamine	TEA	8 2	0	E	111	A	Yes	3	.55-1(e)	G	
Triethylamine Triethylamine	TEN	7 7 2	0	C	11	Α	Yes	1	.55-1(b)	G	
Triethylenetetramine	TET				111	A	Yes		.56-1(a), (b), (c)	G	
Triphenylborane (10% or less), caustic soda solution	TPB	5	0	NA	- 111	A	No	N/A	.50-73, .56-1(a), (c).	G	
Trisodium phosphate solution	TSP	5	0	NA	111	A	No	N/A	.56-1(b)	G	
Urea, Ammonium nitrate solution (containing more than 2% NH3)	UAS	6	0	NA	III	A	No	N/A	.50-73, .56-1(a), (c), (g)	G	
Vanillin black liquor (free alkali content, 3% or more).	VBL	5	0	NA	111	A	No	N/A	.50-70(a), .50-81(a), (b)	G	
Vinyl acetate	VAM	13	0	С	III	A	Yes	2	.50-70(a), .50-81(a), (b)	G	
Vinyl neodecanate	VND	13	0	E	111	A	No	N/A			
Vinyltoluene	VNT	13	0	D	III	Α	Yes	2	.50-70(a), .50-81, .56-1(a), (b), (c), (	G	



Certificate of Inspection

## Cargo Authority Attachment

Vessel Name: KIRBY 28042 Official #: 1175021

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Shipyard: West Gulf Marine

Serial #: C1-1300016

02-Jan-13

Dated:

Cargo Identification		Conditions of Carriage								
		T						Recovery		
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	App'd	VCS Category	Special Requirements in 46 CFR 151 General and Mat'ls of	Insp. Period
Subchapter D Cargoes Authorized for Vapor Contr	ol									
Acetone	ACT	18 <sup>2</sup>	D	С		Α	Yes	1		
Acetophenone	ACP	18	D	E	Z (ije	Α	Yes	1		
Alcohol(C12-C16) poly(1-6)ethoxylates	APU	20	D	E		Α	Yes	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	E		Α	Yes	1	Self Park Park	
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	E		Α	Yes	1		
Butyl acetate (all isomers)	BAX	34	D	D		Α	Yes	1		
Butyl alcohol (iso-)	IAL	20 2	D	D		Α	Yes	1		
Butyl alcohol (n-)	BAN	20 <sup>2</sup>	D	D		Α	Yes	1		
Butyl alcohol (sec-)	BAS	20 2	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	THE STATE OF THE STATE OF	
Caprolactam solutions	CLS	22	D	Е		Α	Yes	1		
Cyclohexane	CHX	31	D	С		Α	Yes	1		
Cyclohexanol	CHN	20	D	E		Α	Yes	1		
1,3-Cyclopentadiene dimer (molten)	CPD	30	D	D/E		Α	Yes	2		
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		
Decene	DCE	30	D	D		Α	Yes	1		
Decyl alcohol (all isomers)	DAX	20 <sup>2</sup>	D	Е		Α	Yes	1		
n-Decylbenzene, see Alkyl(C9+)benzenes	DBZ	32	D	E	900	Α	Yes	1		
Diacetone alcohol	DAA	20 <sup>2</sup>	D	D		Α	Yes	1		
ortho-Dibutyl phthalate	DPA	34	D	E		Α	Yes	1		
Diethylbenzene	DEB	32	D	D		Α	Yes	1		
Diethylene glycol	DEG	40 <sup>2</sup>	D	E		Α	Yes	1		
Diisobutylene	DBL	30	D	С	Daniel .	Α	Yes	1		- 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	Е		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		Α	Yes	1		7433
Diphenyl ether	DPE	41	D	{E}	17/3	A	Yes	1		
Dipropylene glycol	DPG	40	D	E	No.	Α	Yes	1		N THE
Distillates: Flashed feed stocks	DFF	33	D	E		A	Yes	1		
Distillates: Straight run	DSR	33	D	E		A	Yes	1		200
Dodecene (all isomers)	DOZ	30	D	D		A	Yes	1		1 7 1
Dodecylbenzene, see Alkyl(C9+)benzenes	DDB	32	D	E		A	Yes	1		
2-Ethoxyethyl acetate	EEA	34	D	D		A	Yes	1	A TOTAL STREET	-
Ethoxy triglycol (crude)	ETG	40	D	E		A	Yes	1		
Luloxy digiyool (oldde)	-10	-10			-		.00			



Serial #: C1-1300016

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# Certificate of Inspection

Cargo Authority Attachment

Vessel Name: KIRBY 28042 Page 5 of 8 Official #: 1175021

Shipyard: West Gulf Marine

Cargo Identificatio	Conditions of Carriage									
								Recovery	One del Deservice and in 40 OFD	
Name	Chem	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
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	MAG	Α	Yes	1		
Ethyl butanol	EBT	20	D	D		Α	Yes	1		
Ethyl tert-butyl ether	EBE	41	D	С		Α	Yes	1		
Ethyl butyrate	EBR	34	D	D		Α	Yes	1		
Ethyl cyclohexane	ECY	31	D	D		Α	Yes	1		
Ethylene glycol	EGL	20 2	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		
Ethylene glycol phenyl ether	EPE	40	D	E		Α	Yes	1		
Ethyl-3-ethoxypropionate	EEP	34	D	D		Α	Yes	1		
2-Ethylhexanol	EHX	20	D	E		Α	Yes	1		
Ethyl propionate	EPR	34	D	C	E. Lui	Α	Yes	1		N/E
Ethyl toluene	ETE	32	D	D		Α	Yes	1		
Formamide	FAM	10	D	E	43.15	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		a ang
Gasoline blending stocks: Reformates	GRF	33	D	A/C		Α	Yes	1	CHARLES LATE TO THE SAI	
Gasolines: Automotive (containing not over 4.23 grams lead per gallon)	GAT	33	D	С		Α	Yes	1		
Gasolines: Aviation (containing not over 4.86 grams of lead per gallon)	GAV	33	D	С		Α	Yes	1		
Gasolines: Casinghead (natural)	GCS	33	D	A/C		Α	Yes	1		24.742
Gasolines: Polymer	GPL	33	D	A/C		Α	Yes	1		
Gasolines: Straight run	GSR	33	D	A/C		Α	Yes	1	(1) A 10 (1) (1) (1)	
Glycerine	GCR	20 2	D	E		Α	Yes	1		
Heptane (all isomers), see Alkanes (C6-C9) (all isomers)	HMX	31	D	C		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	THE PERSON NAMED IN	
Heptyl acetate	HPE	34	D	E		Α	Yes	1		A MA
Hexane (all isomers), see Alkanes (C6-C9)	HXS	31 2	D	B/C	Single	Α	Yes	1		10.25
Hexanoic acid	НХО	4	D	E	No.	Α	Yes	1		
Hexanol	HXN	20	D	D		Α	Yes	1		
Hexene (all isomers)	HEX	30	D	С	to Orle	Α	Yes	2		
Hexylene glycol	HXG	20	D	E		Α	Yes	1		463
Isophorone	IPH	18 2	D	E	Contract of the last	Α	Yes	1	CHARLES TO TAXABLE	E SHALL
Jet fuel: JP-4	JPF	33	D	E		Α	Yes	1		
Jet fuel: JP-5 (kerosene, heavy)	JPV	33	D	D	TO AL	Α	Yes	1		
Kerosene	KRS	33	D	D		A	Yes	1		
Methyl acetate	MTT	34	D	D	D Lun	A	Yes	1		
Methyl alcohol	MAL	20 2	D	C	13736	A	Yes	1		
Methylamyl acetate	MAC	34	D	D		A	Yes	1		
Methylamyl alcohol	MAA	20	D	D	772	A	Yes	1		2773
Methyl amyl ketone	MAK	18	D	D		A	Yes	1		
	MBE	41 2	D	C		A	Yes	1		
Methyl tert-butyl ether  Methyl butyl ketone	MBK	18	D	C		A	Yes	1		
*** This document is only valid when att	200					Alle N			( Iuanastian ***	



Serial #: C1-1300016 Dated:

02-Jan-13

# Certificate of Inspection

## Cargo Authority Attachment

Vessel Name: KIRBY 28042 Official #: 1175021

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Shipyard: West Gulf Marine

Cargo Identification	1							Condi	tions of Carriage	
			1976					Recovery		
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	App'd	VCS		Insp. Period
Methyl butyrate	MBU	34	D	С		Α	Yes	1		
Methyl ethyl ketone	MEK	18 <sup>2</sup>	D	С		Α	Yes	1		
Methyl heptyl ketone	MHK	18	D	D		Α	Yes	1		
Methyl isobutyl ketone	MIK	18 <sup>2</sup>	D	С	1009	Α	Yes	1		GO N
Methyl naphthalene (molten)	MNA	32	D	E		Α	Yes	1		
Mineral spirits	MNS	33	D	D		Α	Yes	1		
Myrcene	MRE	30	D	D	4 15	Α	Yes	1		
Naphtha: Heavy	NAG	33	D	#		Α	Yes	1		
Naphtha: Petroleum	PTN	33	D	#		Α	Yes	1		
Naphtha: Solvent	NSV	33	D	D		A	Yes	1		
Naphtha: Stoddard solvent	NSS	33	D	D		Α	Yes	1		
Naphtha: Varnish makers and painters (75%)	NVM	33	D	С		Α	Yes	1		
Nonane (all isomers), see Alkanes (C6-C9)	NAX	31	D	D		Α	Yes	1		
Nonene (all isomers)	NON	30	D	D		Α	Yes	2		
Nonyl alcohol (all isomers)	NNS	20 2	D	E		A	Yes	1		
Nonyl phenol	NNP	21	D	E		A	Yes	1		
Nonyl phenol poly(4+)ethoxylates	NPE	40	D	E		A	Yes	1		
Octane (all isomers), see Alkanes (C6-C9)	OAX	31	D	С		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	770	A	Yes	2		
Oil, fuel: No. 2	OTW	33	D	D/E	T	A	Yes	1		
Oil, fuel: No. 2-D	OTD	33	D	D	2	A	Yes	1		
Oil, fuel: No. 4	OFR	33	D	D/E		A	Yes	1	SEL CONTROL OF THE SECOND	
Oil, fuel: No. 5	OFV	33	D	D/E		A	Yes	1		_
Oil, fuel: No. 6	OSX	33	D	E		A	Yes	1		
Oil, misc: Crude	OIL	33	D	C/D		A	Yes	1	The same of the same of	-
Oil, misc: Diesel	ODS	33	D	D/E	THE RES	A	Yes	1		
Oil, misc: Gas, high pour	OGP	33	D	E		A	Yes	1		
Oil, misc: Lubricating	OLB	33	D	E		A	Yes	1		
Oil, misc: Residual	ORL	33	D	E		A	Yes	1		- 1
Oil, misc: Turbine	ОТВ	33	D	E		A	Yes	1		
Pentane (all isomers)	PTY	31	D	A	100	A	Yes	5		
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		A	Yes	1		
beta-Pinene	PIP	30	D	D	10.00	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	700	A	Yes	1		
iso-Propyl acetate	IAC	34	D	C		A	Yes	1		
n-Propyl acetate	PAT	34	D	С		A	Yes	1		
iso-Propyl alcohol	IPA	20 2	D	C		A	Yes	1		
n-Propyl alcohol	PAL	20 2	D	С		A	Yes	1		
Propylbenzene (all isomers)	PBY	32	D	D		A	Yes	1		
iso-Propylcyclohexane	IPX	31	D	D	100	A	Yes	1		
Propylene glycol	PPG	20 2	D	E		A	Yes	1		-
1 10k3.0.10 gi300i		20-		_	-	^	105			



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# Certificate of Inspection

Cargo Authority Attachment

Vessel Name: KIRBY 28042 Official #: 1175021 Page 7 of 8 Shipyard: West Gulf Marine

Cargo Identifica	ation					Conditions of Carriage					
						NEW	Vapor F	Recovery			
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	
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	Е	ME	Α	Yes	1			
Toluene	TOL	32	D	С		Α	Yes	1			
Tricresyl phosphate (less than 1% of the ortho isomer)	TCP	34	D	Е		Α	Yes	1			
Triethylbenzene	TEB	32	D	E		Α	Yes	1			
Triethylene glycol	TEG	40	D	E		Α	Yes	1			
Triethyl phosphate	TPS	34	D	Е		А	Yes	1			
Trimethylbenzene (all isomers)	TRE	32	D	{D}		Α	Yes	1			
Trixylenyl phosphate	TRP	34	D	E		Α	Yes	1			
Undecene	UDC	30	D	D/E		Α	Yes	1			
1-Undecyl alcohol	UND	20	D	E	200	Α	Yes	1			
Xylenes (ortho-, meta-, para-)	XLX	32	D	D	17 44	Α	Yes	1			



Serial # C1-1300016 Dated

02-Jan-13

## Certificate of Inspection Cargo Authority Attachment

Vessel Name: KIRBY 28042 Official #: 1175021

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Shipyard: West Gulf Mari

Hull #: 155

#### 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

Note 1 Note 2 Compatibility Chart. For additional compatibility information, contact Commandant (CG-3PSO-3), U.S. Coast Guard, 2100 Second Street, SW, Washington, DC 20593-Telephone (202) 372-1425

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

Subchapter Subchapter D Note 3

The subchapter in Title 46 Code of Federal Regulations under which the cargo has been classified.

Those flammable and combustible liquids listed in 46 CFR Table 30.25-1.

Those hazardous cargoes listed in 46 CFR Table 151.05 and 46 CFR Part 153 Table 2.

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

Grade

The cargo classification assigned to each flammable or combustible liquid. Grades inside of "{ }" indicate a provisional assignment based upon literature sources which were not verified by manufacturers data. The Person-in-Charge shall verify the cargo grade based on Manufacturers data and ensure that the barge is authorized for carriage of that grade of cargo. Flammable liquid cargoes, as defined in 46 CFR 30-10.22

A. B. C Note 4

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.

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 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 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 39.30-11). 1(b)) must use appropriate friction factors, vapor densities and vapor growth rates.

Category 2

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

Category 3

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

Category 4

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

Category 5

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

Category 6 Category 7

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

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