

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

Certification Date: 16 Oct 2019
Expiration Date: 16 Oct 2024

Certificate of Inspection

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

Vessel Name

Official Number

IMO Number

Call Sign

Service

KIRBY 29116

1245370

Tank Barge

Hailing Port

WILMINGTON, DE

Hull Material

Steel

Horsepower

Propulsion

UNITED STATES

Place Built

Delivery Date

Keel Laid Date

Gross Tons

Net Tons

Length

Madisonville, LA

22Sep2014 14Aug2014

R-1632

R-1632

R-300.0

J- 10

DWT

UNITED STATES

Owner

KIRBY INLAND MARINE LP 55 Waugh Drive, Suite 1000 Houston, TX 77007 UNITED STATES Operator

KIRBY INLAND MARINE, LP

18350 Market St Channelview, TX 77530 UNITED STATES

This vessel must be manned with the following licensed and unlicensed Personnel. Included in which there must be 0 Certified Lifeboatmen, 0 Certified Tankermen, 0 HSC Type Rating, and 0 GMDSS Operators.

0 Masters

0 Licensed Mates

0 Chief Engineers

0 Oilers

0 Chief Mates

0 First Class Pilots

0 First Assistant Engineers

0 Second Mates

0 Third Mates

0 Radio Officers

0 Able Seamen

0 Second Assistant Engineers0 Third Assistant Engineers

0 Master First Class Pilot

0 Ordinary Seamen

0 Licensed Engineers

0 Mate First Class Pilots

0 Deckhands

0 Qualified Member Engineer

In addition, this vessel may carry 0 Passengers, 0 Other Persons in crew, 0 Persons in addition to crew, and no Others. Total Persons allowed: 0

Route Permitted And Conditions Of Operation:

---Lakes, Bays, and Sounds---

Also, in fair weather only, limited coastwise, not more twelve (12) miles from shore between St. Marks and Carrabelle, Florida.

This tank barge is participating in the Eighth and Ninth Coast Guard Districts' 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 Sector Houston-Galveston.

SEE NEXT PAGE FOR ADDITIONAL CERTIFICATE INFORMATION

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

Zin, Y	Annual/Periodi	ic/Re-In	spection
Date	Zone	A/P/R	Signature
9-30-20	HOU/GAL	A	DANNY MURRAY
8-27-21	HOU/GAL	P	DANNY MURRAY
8-23-20	HOV/GAL	A	DINNY MUZRAY
11-29-2023	CorposChraft	A	Michael W. Johnson Tr

This certificate issued by:

E. M. CARRERO CDR, USCG, BY DIRECTION

Officer in Charge, Marine Inspection

Houston-Galveston

Inspection Zone



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

Certification Date: 16 Oct 2019 **Expiration Date:** 16 Oct 2024

Certificate of Inspection

Vessel Name: KIRBY 29116

---Hull Exams---

Exam Type

Next Exam

Last Exam

Prior Exam

DryDock

30Sep2024

22Sep2014

Internal Structure

30Sep2022

16Oct2019

22Sep2014

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

Authorization:

GRADE "A" AND LOWER AND SPECIFIED HAZARDOUS CARGOES.

Total Capacity

Units

Highest Grade Type Part151 Regulated Part153 Regulated Part154 Regulated

29100

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	865	13.66
2 P/S	822	13.66
3 P/S	789	13.66

Loading Constraints - Stability

Hull Type	Maximum Load	Maximum Draft	Max Density	Route Description
	(short tons)	(ft/in)	(lbs/gal)	
П	3844	10ft 0in	13.66	R,LBS
Ш	4716	11ft 9in	13.66	R,LBS

Conditions Of Carriage

Only those cargoes named in the vessel's Cargo Authority Attachment (CAA), Serial# C1-1402513, dated July 21, 2014, may be carried, and then only in the tanks indicated. When the vessel is carrying cargoes containing greater than 0.5% benzene. the person in charge is responsible for ensuring the provisions of 46 CFR part 197, Subpart C are applied.

Per 46 CFR 150.130, the Person in Charge of the vessel is responsible for ensuring that the compatibility requirements of 46 CFR 150 are met. Cargoes must be checked for compatibility using the figures, tables, and appendices of 46 CFR 150 in conjunction with the compatibility group numbers from the "Compat Group No" column listed in the vessel's CAA.

The maximum design density of cargo which may be filled to the tank top is 8.74 lbs/gal. Cargoes with higher densities, up to 13.66 lbs/gal, may be carried as slack loads, but shall not exceed the tank weight limits as listed above.

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

In accordance with 46 CFR part 39.1017 and 39.5001(e) this vessel's Vapor Control System(VCS) has been evaluated and approved for multi-breasted tandem loading with other vessels specifically approved to tandem load with this vessel.

Vapor Control Authorization

In accordance with 46 CFR Part 39, excluding Part 39.4000, this vessel's VCS has been inspected to the plans approved by MSC letter C1-1402513, dated July 21, 2014, and has been found acceptable for the collection of bulk liquid cargo vapors annotated with "Yes" in the CAA's VCS column. The VCS has been approved with a pressure side of 6 psiq P/V valve with Coast Guard Approval 162.017/167/4. The cargo tank top is suitable for a maximum allowable working pressure (MAWP) of 6.5 psig.



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

Certification Date: 16 Oct 2019 Expiration Date: 16 Oct 2024

Certificate of Inspection

Vessel Name: KIRBY 29116

 Inspection	Status
 Inspection	Status

Fuel Tanks

Internal Examinations

Tank ID Previous Last Next Starboard Stern - 22Sep2014 -

Cargo Tanks

	Internal Exam			External Exam	1	
Tank Id	Previous	Last	Next	Previous	Last	Next
1 P/S	-	22Sep2014	22Sep2024	-	=	-
2 P/S	-	22Sep2014	22Sep2024	-	-	-
3 P/S	-	22Sep2014	22Sep2024	-	-	-
			Hydro Test			
Tank Id	Safety Valves		Previous	Last	Next	
1 P/S	-		-	-	-	
2 P/S	-		-	-	-	
3 P/S	_		_	_	_	

--- Conditional Portable Fire Extinguisher Requirements---

Required Only During Transfer of Cargo or Operation of Barge Machinery

--- Fire Fighting Equipment ---

Fire Extinguishers - Hand portable and semi-portable

Quantity Class Type

40-B

END



Serial #: Dated:

C1-1402513

Certificate of Inspection

Cargo Authority Attachment

Vessel Name: KIRBY 29116

Shipyard: Trinity Marine-

Madisonville Hull #: 2215-21

81(b),

Official #: 1245370

C	FR	151	Tank	Group	Characteristics	

Tank Group Information	Cargo I	dentificat	ion	Tanks Cargo Environmental Cargo Transfer Control			Fire	Special Requirements									
Trik Grp Tanks in Group	Density	Press.	Temp.	Hull Typ	Seq	Туре	Vent	Gauge	Pipe Class	Cont	Tanks	Handling Space	Protection Provided	General	Materials of Construction	Elec Haz	Temp Cont
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, .50-81(a), .50-	55-1(b), (c), (e), (f), (h), (j), 56-1(a), (b), (c), (d), (e), (f), (g),	NR	No

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

- 2. Under Environmental Control, Handling Space, NR means that the tank group is suitable only for those cargoes which require no environmental control in the cargo handling space. NA means that the vessel does not have a cargo control space, and this requirement is not applied.
- 3. Under Electrical Hazard Class, NA means that the tank group is suitable only for those cargoes which have no electrical hazard class requirement. NR means that the vessel has no electrical

List of Authorized Cargoes

Cargo Identificatio	n						Conditions of Carriage						
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	Vapor Ro 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	111	Α	Yes	3	No	G			
Acrylonitrile	ACN	15 ²	0	С	li.	Α	Yes	4	.50-70(a), .55-1(e)	G			
Adiponitrile	ADN	37	0	E	11	Α	Yes	1	No	G			
Alkyl(C7-C9) nitrates	AKN	34 2	0	NA	III	Α	No	N/A	.50-81, .50-86	G			
Aminoethylethanolamine	AEE	8	0	E	(6)	Α	Yes	1	.55-1(b)	G			
Ammonium bisulfite solution (70% or less)	ABX	43 2	0	NA	111	Α	No	N/A	.50-73, .56-1(a), (b), (c)	G			
Ammonium hydroxide (28% or less NH3)	AMH	6	0	NA	111	Α	No	N/A	.56-1(a), (b), (c), (f), (g)	G			
Anthracene oil (Coal tar fraction)	AHQ	33	0	NA	l1	Α	No	N/A	No	G			
Benzene	BNZ	32	0	C	EII	Α	Yes	1	.50-60	G			
Benzene or hydrocarbon mixtures (having 10% Benzene or more)	внв	32 ²	0	С	[1]	Α	Yes	1	.50-60	G			
Benzene or hydrocarbon mixtures (containing Acetylene and 10% Benzene or more)	ВНА	32 ²	0	С	nı	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	III	Α	Yes	2	.50-70(a), .50-81(a), (b)	G			
Butyraldehyde (all isomers)	BAE	19	0	С	111	Α	Yes	1	.55-1(h)	G			
Camphor oil (light)	CPO	18	0	D	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	uı	A	No	N/A	.50-73, .55-1(j)	G			
Chemical Oil (refined, containing phenolics)	COD	21	0	Ε	11	Α	No	N/A	.50-73	G			
Chlorobenzene	CRB	36	0	D	III	Α	Yes	1	No	G			
Chloroform	CRF	36	0	NA	ill	Α	Yes	3	No	G			
Coal tar naphtha solvent	NCT	33	0	D	111	Α	Yes	1	.50-73	G			
Creosote	CCV	/ 21 2	0	E	111	Α	Yes	1	No	G			
Cresols (all isomers)	CRS	21	0	E	(91	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	111	Α	Yes	1	.55-1(f)	G			
Crotonaldehyde	CTA	19 ²	0	С	li.	Α	Yes	4	.55-1(h)	G			
Crude hydrocarbon feedstock (containing Butyraldehydes and Ethylpropyl acrolein)	CHG	l	0	С	Ш	Α	Yes	1	Na	G			
Cyclohexanone	ССН	18	0	D	III	Α	Yes	1	.56-1(a), (b)	G			
Cyclohexanone, Cyclohexanol mixture	CYX	18 ²	0	E	ill	Α	Yes	1	.56-1 (b)	G			



Serial #: C1-1402513 Dated:

21-Jul-14

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Cargo Authority Attachment

Vessel Name: KIRBY 29116

Shipyard: Trinity Marine-Madisonville

Hull #: 2215-21

Official #: 1245370

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Cargo Identificati	on						(Condi	tions of Carriage	
							Vapor R	ecovery		
Name Cyclohexylamine	Chem Code CHA	Compat Group No 7	Sub Chapter O	Grade D	Hull Type i	Tank Group A	App'd (Y or N) Yes	VCS Category 1	Special Requirements in 46 CFR 151 General and Mat'ls of .56-1(a), (b), (c), (g)	Insp. Period G
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	ISI	Α	Yes	2	.50-70(a), .50-81(a), (b), .55-1(c)	G
Dichlorobenzene (all isomers)	DBX	36	0	E	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	11	Α	Yes	1	.55-1(f)	G
Dichloromethane	DCM	36	0	NA	111	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	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	ţ	Α	Yes	3	No	G
1,3-Dichloropropane	DPC	36	0	С	til.	Α	Yes	3	No	G
1,3-Dichloropropene	DPU	15	0	D	ii	Α	Yes	4	No	G
Dichloropropene, Dichloropropane mixtures	DMX	15	0	С	11	Α	Yes	1	No	G
Diethanolamine	DEA	8	0	E	10	Α	Yes	1	.55-1(c)	G
Diethylamine	DEN	7	0	С	III	Α	Yes	3	.55-1(c)	G
Diethylenetriamine	DET	7 2	0	E	111	Α	Yes	1	.55-1(c)	G
Diisobutylamine	DBU	7	0	D	ŧII	A	Yes	3	.55-1(c)	G
Diisopropanolamine	DIP	8	0	E	ŧII	Α	Yes	1	.55-1(c)	G
Diisopropylaminę	DIA	7	0	С		Α	Yes	3	.55-1(c)	G
N,N-Dimethylacetamide	DAC	10	0	E	Itt	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	Α	Yes	3	.55-1(c)	G
Dodecyldimethylamine, Tetradecyldimethylamine mixture	DOT	7	0	E	111	Α	No	N/A	.56-1(b)	G
Dodecyl diphenyl ether disulfonate solution	DOS	43	0	#	II	Α	No	N/A	No	G
EE Glycol Ether Mixture	EEG	40	0	D	111	Α	No	N/A	No	G
Ethanolamine	MEA	8	0	Ε	III	Α	Yes	1	.55-1(c)	G
Ethyl acrylate	EAC	14	0	С	III	Α	Yes	2	.50-70(a), .50-81(a), (b)	G
Ethylamine solution (72% or less)	EAN	7	0	Α	II	Α	Yes	6	.55-1(b)	G
N-Ethylbutylamine	EBA	7	0	Đ	111	Α	Yes	3	.55-1(b)	G
N-Ethylcyclohexylamine	ECC	7	0	D	111	Α	Yes	1	.55-1(b)	G
Ethylene cyanohydrin	ETC	20	0	Е	III	Α	Yes	1	No	G
Ethylenediamine	EDA	7 2	0	D	111	Α	Yes	1	.55-1(c)	G
Ethylene dichloride	EDC	36 ²	0	С	ill	Α	Yes	1	No	G
Ethylene glycol hexyl ether	EGH	40	0	E	III	Α	No	N/A	No	G
Ethylene glycol monoalkyl ethers	EGC	40	0	D/E	111	Α	Yes	1	No	G
Ethylene glycol propyl ether	EGP	40	0	E	111	Α	Yes	1	No	G
2-Ethylhexyl acrylate	EAI	14	0	Е	[]]	Α	Yes	2	.50-70(a), .50-81(a), (b)	G
Ethyl methacrylate	ETM	14	0	D/E	(II	Α	Yes	2	.50-70(a)	G
2-Ethyl-3-propylacrolein	EPA	19 ²	0	E	ill	Α	Yes	1	No	G
Formaldehyde solution (37% to 50%)	FMS	19 ²	0	D/E	ill	Α	Yes	1	.55-1(h)	G
Furfural	FFA	19	0	D	111	A	Yes		.55-1(h)	G
Glutaraldehyde solution (50% or less)	GTA	19	0	NA	111	Α	No	N/A	No	G
Hexamethylenediamine solution	НМС		0	E	111	A	Yes	1	.55-1(c)	G
Hexamethyleneimine	HMI	7	0	c	- 11	A	Yes		.56-1(b), (c)	G
Hydrocarbon 5-9	HFN		0	С	111	Α	Yes		.50-70(a), .50-81(a), (b)	G



C1-1402513 Dated:

21-Jul-14

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Cargo Authority Attachment

Shipyard: Trinity Marine-

Madisonville 2215-21

Vessel Name: KIRBY 29116 Official #: 1245370

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Soprene Code Group No Carbon Grade Type Group Group Name Nam	Cargo Identification							Conditions of Carriage					
Supprise Supprise											T		
		Code	Group No	Chapter	•	Type	Group	(Y or N)	Category	151 General and Mattls of	Insp. Period G		
Kart pulping layours (free a half content 3% or money) (including: Black, KPL 5 0 NA III A No NIA 59-73, 56-101, 401, 401		IPN		0	В	111		No	N/A	.50-70(a), .55-1(c)	G		
Meelty acceptance	Kraft pulping liquors (free alkali content 3% or more)(including: Black,	KPL	5	0						.50-73, .56-1(a), (c), (g)	G		
Methyl cacylate		MSO	18 ²	0	D	111	A	Yes	1	No	G		
Methylocyclopentacinned intere MCK M	Methyl acrylate	MAM	14	0	С	III	Α	Yes	2	.50-70(a), .50-81(a), (b)	G		
Methy dethanolamine	~	MCK	30	0	С	111	A	Yes	1	No	G		
Mothly methacrylate		MDE	8	0	Ε	101	Α	Yes	1	.56-1(b), (c)	G		
Methy Interhacrylate	2-Methyl-5-ethylpyridine	MEP	9	0	Ε	111	Α	Yes	1	.55-1(e)	G		
A		MMM	14	0	С	III	Α	Yes	2	.50-70(a), .50-81(a), (b)	G		
MPL 7 0 D III A Yes 1 55-16	2-Methylpyridine	MPR	9	0	D	111	Α	Yes	3	.55-1(c)	G		
Morpholine MPL 7 2		MSR	30	0	D	III	Α	Yes	2	.50-70(a), .50-81(a), (b)	G		
Nitroethane	· · · · · · · · · · · · · · · · · · ·	MPL	7 ²	0	D	III	Α	Yes	1	.55-1(c)	G		
Post-incontropteme		NTE	42	0	D	[]	Α	No	N/A	.50-81, .56-1(b)	G		
1,3-Pentadiene PDE 30 O A III A Yes 7 56-70(a), 56-81 Perchitoroethylene PER 36 O NA III A NO NIA NIA NO NIA NIA NO NIA NIA NO NIA		NPM	42	0	D	[]]		Yes	1	.50-81	G		
Polyethylene polyamines		PDE	30	0	Α	111	Α	Yes	7	.50-70(a), .50-81	G		
Polyethylene polyamines		PER	36			III		No	N/A	No	G		
Sep-Propanolamine MPA		PEB	7 2	0				Yes			G		
Propenciamine (iso-, n-)			8							.55-1(c)	G		
Sec-Propylamine									1	.56-1(b), (c)	G		
Pridine		IPP	7	-				Yes	5	.55-1(c)	G		
Sodium acetate, Glycol, Water mixture (3% or more Sodium Hydroxide) SAP O III A No N/A 5-73, 55-1(0)		PRD	9	0		111		Yes	1	.55-1(e)	G		
Sodium aluminate solution (45% or less)		SAP		0						.50-73, .55-1(j)	G		
Sodium chlorate solution (50% or less)			5		NA						G		
Sodium hypochlorite solution (20% or less)											G		
Sodium sulfide, hydrosulfide solution (H2S 15 ppm or less)	<u>-</u>		5								G		
Sodium sulfide, hydrosulfide solution (H2S greater than 15 ppm but less than 200 ppm) SSJ 0 1.2 O NA II A No N/A 50-73, 55-1(b)				0							G		
Sodium sulfide, hydrosulfide solution (H2S greater than 200 ppm) SSJ 0 1.2 O NA II A No N/A .50-73, .55-1(b)	Sodium sulfide, hydrosulfide solution (H2S greater than 15 ppm but		0 1,2							.50-73, .55-1(b)	G		
Styrene (crude)		SSJ	0 1,2	0	NA	ţi.	Α	No	N/A	.50-73, .55-1(b)	G		
Styrene monomer		STX		0	D	III		Yes	2	No	G		
1,1,2,2-Tetrachloroethane TEC 36 O NA III A No N/A No Tetraethylenepentamine TTP 7 O E III A Yes 1 .55-1(c) Tetrahydrofuran THF 41 O C III A Yes 1 .50-70(b) Toluenediamine TDA 9 O E II A No N/A .50-73, .56-1(e) 1,2,4-Trichlorobenzene TCB 36 O E III A Yes 1 No 1,1,2-Trichloroethane TCM 36 O NA III A Yes 1 .50-73, .56-1(e) Trichloroethylene TCL 36 ° O NA III A Yes 1 No 1,2,3-Trichloropropane TCN 36 ° O E II A Yes 1 No 1,2,3-Trichloropropane TEA 8 ° O		STY	30	0	D	BI	A	Yes		.50-70(a), .50-81(a), (b)	G		
Tetraethylenepentamine TTP 7 O E III A Yes 1 .55-1(c) Tetrahydrofuran THF 41 O C III A Yes 1 .50-70(b) Toluenediamine TDA 9 O E II A No N/A .50-73, .56-1(a), (b), (c), (g) 1,2,4-Trichlorobenzene TCB 36 O E III A Yes 1 No 1,1,2-Trichloroethane TCM 36 O NA III A Yes 1 No Trichloroethylene TCL 36 2 O NA III A Yes 1 No		TEC	36	0	NA	111	Α	No	N/A	No No	G		
Tetrahydrofuran THF 41 O C III A Yes 1 .50-70(b) Toluenediamine TDA 9 O E II A No N/A .50-73, .56-1(a), (b), (c), (g) 1,2,4-Trichlorobenzene TCB 36 O E III A Yes 1 No 1,1,2-Trichlorobenzene TCM 36 O NA III A Yes 1 .50-73, .56-1(a) 1,2,3-Trichlorobenzene TCL 36 ² O NA III A Yes 1 .50-73, .56-1(a) 1,2,3-Trichloroptopane TCN 36 O E II A Yes 3 .50-73, .56-1(a) 1,2,3-Trichloroptopane TCN 36 O E II A Yes 3 .50-73, .56-1(a) 1,2,3-Trichloroptopane TEA 8 ² O E III A Yes 3 .50-73, .56-1(a) 1,2,3-Trichloroptopane		TTP	7	0							G		
Toluenediamine TDA 9 O E II A No N/A .50-73, .56-1(a), (b), (c), (g) 1,2,4-Trichlorobenzene TCB 36 O E III A Yes 1 No 1,1,2-Trichlorobenzene TCM 36 O NA III A Yes 1 .50-73, .56-1(a) Trichlorobethylene TCL 36 ² O NA III A Yes 1 No 1,2,3-Trichloropropane TCN 36 O E II A Yes 3 .50-73, .56-1(a) Triethyloropropane TEA 8 ² O E III A Yes 3 .50-73, .56-1(a) Triethylamine TEA 8 ² O E III A Yes 3 .55-1(b) Triethylamine TET 7 ² O E III A Yes 3 .55-1(b) Triethylamine TET 7 ²		THF	41	0	С	111	Α	Yes	1	.50-70(b)	G		
1,2,4-Trichlorobenzene TCB 36 O E III A Yes 1 No 1,1,2-Trichloroethane TCM 36 O NA III A Yes 1 .50-73, .56-1(a) Trichloroethylene TCL 36 ² O NA III A Yes 1 No 1,2,3-Trichloroptopane TCN 36 O E II A Yes 3 .50-73, .56-1(a) Triethylamine TEA 8 ² O E III A Yes 3 .55-1(b) Triethylenetetramine TET 7 ² O E III A Yes 3 .55-1(b) Triphenylborane (10% or less), caustic soda solution TPB 5 O NA III A No N/A .56-1(a), (b), (c) Trisodium phosphate solution TSP 5 O NA III A No N/A .50-73, .56-1(a), (c). (c) Urea, A	<u> </u>	TDA	9	0		11		No	N/A	.50-73, .56-1(a), (b), (c), (g)	G		
1,1,2-Trichloroethane TCM 36 O NA III A Yes 1 .50-73, .56-1(a) Trichloroethylene TCL 36 ² O NA III A Yes 1 No 1,2,3-Trichloropropane TCN 36 O E II A Yes 3 .50-73, .56-1(a) Triethylamine TEA 8 ² O E III A Yes 1 .55-1(b) Triethylenetetramine TET 7 O C II A Yes 3 .55-1(b) Triphenylborane (10% or less), caustic soda solution TPB 5 O NA III A No N/A .56-1(a), (b), (c) Trisodium phosphate solution TSP 5 O NA III A No N/A .50-73, .56-1(a), (c). Urea, Ammonium nitrate solution (containing more than 2% NH3) UAS 6 O NA III A No N/A .50-73, .56-1(a), (c). (g)		ТСВ	36	0		111		Yes	1	No	G		
Trichloroethylene TCL 36 ² O NA III A Yes 1 No 1,2,3-Trichloropropane TCN 36 ² O E II A Yes 3 .50-73, .56-1(e) Triethylamine TEA 8 ² O E III A Yes 1 .55-1(e) Triethylamine TEN 7 O C II A Yes 3 .55-1(e) Triethylenetetramine TET 7 ² O E III A Yes 1 .55-1(e) Triphenylborane (10% or less), caustic soda solution TPB 5 O NA III A No N/A .56-1(e), (e), (e) Trisodium phosphate solution TSP 5 O NA III A No N/A .50-73, .56-1(e), (e). Urea, Ammonium nitrate solution (containing more than 2% NH3) UAS 6 O NA III A No N/A .50-73, .56-1(e), (e). (e			36	0		(1)		Yes	1	.50-73, .56-1(a)	G		
1,2,3-Trichloropropane TCN 36 O E II A Yes 3 .50-73, .56-1(a) Triethanolamine TEA 8 2 O E III A Yes 1 .55-1(b) Triethylamine TEN 7 O C II A Yes 3 .55-1(a) Triethylamine TET 7 2 O E III A Yes 1 .55-1(a) Triphenylborane (10% or less), caustic soda solution TPB 5 O NA III A No N/A .56-1(a), (b), (c) Trisodium phosphate solution TSP 5 O NA III A No N/A .56-1(a), (c). Urea, Ammonium nitrate solution (containing more than 2% NH3) UAS 6 O NA III A No N/A .56-1(a), (c). (g) Vanillin black liquor (free alkali content, 3% or more). VBL 5 O NA III A No N/A .50-73, .56-1(a), (c). (g)			36 ²	0				Yes	1	No	G		
Triethanolamine TEA 8 ² O E III A Yes 1 .55-1(b) Triethylamine TEN 7 O C II A Yes 3 .55-1(c) Triethylamine TET 7 ² O E III A Yes 1 .55-1(b) Triphenylborane (10% or less), caustic soda solution TPB 5 O NA III A No N/A .56-1(a), (b), (c) Trisodium phosphate solution TSP 5 O NA III A No N/A .50-73, .56-1(a), (c). Urea, Ammonium nitrate solution (containing more than 2% NH3) UAS 6 O NA III A No N/A .56-1(a), (c), (c). Vanillin black liquor (free alkali content, 3% or more). VBL 5 O NA III A No N/A .50-73, .56-1(a), (c). (g)										.50-73, .56-1(a)	G		
Triethylamine TEN 7 O C II A Yes 3 .55-1(e) Triethylenetetramine TET 7 ° 2 ° O E III A Yes 1 .55-1(b) Triphenylborane (10% or less), caustic soda solution TPB 5 O NA III A No N/A .56-1(a), (b), (c) Trisodium phosphate solution TSP 5 O NA III A No N/A .50-73, .56-1(a), (c). Urea, Ammonium nitrate solution (containing more than 2% NH3) UAS 6 O NA III A No N/A .56-1(a) Vanillin black liquor (free alkali content, 3% or more). VBL 5 O NA III A No N/A .50-73, .56-1(a), (c). (g)	<u> </u>									.55-1(b)	G		
Triethylenetetramine TET 7 2 O E III A Yes 1 .55-1(b) Triphenylborane (10% or less), caustic soda solution TPB 5 O NA III A No N/A .56-1(a), (b), (c) Trisodium phosphate solution TSP 5 O NA III A No N/A .50-73, .56-1(a), (c). Urea, Ammonium nitrate solution (containing more than 2% NH3) UAS 6 O NA III A No N/A .56-1(a), (c). Vanillin black liquor (free alkali content, 3% or more). VBL 5 O NA III A No N/A .50-73, .56-1(a), (c). (g)			7							.55-1(e)	G		
Triphenylborane (10% or less), caustic soda solution TPB 5 O NA III A No N/A .56-1(a), (b), (c) Trisodium phosphate solution TSP 5 O NA III A No N/A .50-73, .56-1(a), (c). Urea, Ammonium nitrate solution (containing more than 2% NH3) Vanillin black liquor (free alkali content, 3% or more). VBL 5 O NA III A No N/A .50-73, .56-1(a), (c). (g)	· · · · · · · · · · · · · · · · · · ·									.55-1(b)	G		
Trisodium phosphate solution TSP 5 O NA III A No N/A 50-73, 56-1(e), (e). Urea, Ammonium nitrate solution (containing more than 2% NH3) Vanillin black liquor (free alkali content, 3% or more). VBL 5 O NA III A No N/A 50-73, 56-1(e), (e).	· · · · · · · · · · · · · · · · · · ·									.56-1(a), (b), (c)	G		
Urea, Ammonium nitrate solution (containing more than 2% NH3) Vanillin black liquor (free alkali content, 3% or more). VBL 5 O 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 O NA III A No N/A .50-73, .56-1(e), (c), (g)											G		
Tallian shart index (free shall extrem).										<u> </u>	G		
										· · · · · · · · · · · · · · · · · · ·	G		
Vinyl neodecanate VND 13 O E III A No N/A .50-70(a), .50-81(a), (b)											G		



Serial #: C1-1402513 Dated:

21-Jul-14

Certificate of Inspection

Cargo Authority Attachment

Vessel Name: KIRBY 29116

Shipyard: Trinity Marine-Madisonville

Hull #: 2215-21

Official #: 1245370

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Cargo Identification			_					Condi	tions of Carriage	
		T					Vapor R			
Name Vinyltoluene	Chem Code VNT	Compat Group No 13	Sub Chapter O	Grade D	Huli Type III	Tank Group A	App'd (Y or N) Yes	VCS Category 2	Special Requirements in 46 CFR 151 General and Mattis of .50-70(a), .50-81, .56-1(a), (b), (c), (Insp. Period G
Subchapter D Cargoes Authorized for Vapor Contr	ol		-							
Acetone	ACT	18 ²	D	С		Α	Yes	1		_
Acetophenone	ACP	18	D	E		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		
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	Ε		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 ²	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	Đ		Α	Yes	1		
Caprolactam solutions	CLS	22	D	E		Α	Yes	1		
Cyclohexane	CHX	31	D	С		Α	Yes	1		
Cyclohexanol	CHN	20	D	Ε		Α	Yes	1		
1,3-Cyclopentadiene dimer (molten)	CPD	30	D	D/E		Α	Yes	2		
p-Cymene	CMP	32	D	D		Α	Yes	11		
iso-Decaldehyde	IDA	19	D	E		Α	Yes	1		
n-Decaldehyde	DAL	19	D	E		Α	Yes	1		
Decene	DCE	30	D	D		Α	Yes	1	<u></u>	
Decyl alcohol (all isomers)	DAX	20 ²	D	E		Α	Yes	1		
n-Decylbenzene, see Alkyl(C9+)benzenes	DBZ	32	D	E		Α	Yes	1		
Diacetone alcohol	DAA	20 ²	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 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	<u>E</u>		Α	Yes	11		
Dioctyl phthalate	DOP	34	D	E		A	Yes	1		
Dipentene	DPN	30	D	D		Α	Yes	11	ŗ	
Diphenyl	DIL	32	D	D/E		A	Yes	1		
Diphenyl, Diphenyl ether mixtures	DDO	33	D	Ε		Α	Yes	1		
Diphenyl ether	DPE	41	D	{E}		A	Yes	1		
Dipropylene glycol	DPG	40	<u>D</u>	<u>E</u>		<u> </u>	Yes	1		
Distillates: Flashed feed stocks	DFF	33	<u>D</u>	<u> </u>		A	Yes	1		
Distillates: Straight run	DSR	33	D	<u>E</u>		<u>A</u>	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		



Certificate of Inspection

Cargo Authority Attachment

Vessel Name: KIRBY 29116

Shipyard: Trinity Marine-

Madisonville

Dated:

Serial #: C1-1402513

21-Jul-14

Hull #: 2215-21

Official #: 1245370

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Cargo Identification	n							Condi	tions of Carriage	
							Vapor F	Recovery		1
Norre	Chem	Compat	Sub	Grade	Hull	Tank	App'd	VCS	Special Requirements in 46 CFR	Insp.
Name Ethoxy triglycol (crude)	I Code ETG	IGroup No l	D	E	Type	Group A	Yes	1	151 General and Mattls of	Period
Ethyl acetate	ETA	34	D	С		A	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		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		A	Yes	1		
Ethylene glycol butyl ether acetate	EMA	34	D	Ε		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		A	Yes	1		
Ethyl propionate	EPR	34	D	С		Α	Yes	1		
Ethyl toluene	ETE	32	D	D		A	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		A/C		Α	Yes	1		
Gasoline blending stocks: Reformates	GRF	33		A/C		A	Yes	1		
Gasolines: Automotive (containing not over 4.23 grams lead per	GAT	33	D	C		A	Yes	1		
gailon)	• • • • • • • • • • • • • • • • • • • •							-		
Gasolines: Aviation (containing not over 4.86 grams of lead per	GAV	33	D	Ç		Α	Yes	1		
gailon)										
Gasolines: Casinghead (natural)	GCS	33	D	A/C	-	Α	Yes	1		
Gasolines: Polymer	GPL	33	D	A/C		A	Yes	1		
Gasolines: Straight run	GSR	33	D	A/C		<u> </u>	Yes	1	····	
Glycerine	GCR	20 ²	D	E		Α	Yes	1		
Heptane (all isomers), see Alkanes (C6-C9) (all isomers)	HMX	31	<u>D</u>	<u> </u>		Α	Yes	1		
Heptanoic acid	HEP	4	D	Е		Α	Yes	1		
Heptanol (all isomers)	HTX	20	D	D/E		A	Yes	1		
Heptene (all isomers)	HPX	30	D	С		Α	Yes	2		
Heptyl acetate	HPE	34	D	E		A	Yes	1		
Hexane (all isomers), see Alkanes (C6-C9)	HXS	31 ²	<u>D</u>	B/C		A	Yes	1		
Hexanoic acid	HXO	4	D	E		A	Yes	1		
Hexanol	HXN	20	D	D		Α	Yes	1		
Hexene (all isomers)	HEX	30	D	С		Α	Yes	2		
Hexylene glycol	HXG	20	D	<u>E</u>		A	Yes	1		
Isophorone	IPH	18 ²	D	Е		Α	Yes	1		
Jet fuel: JP-4	JPF	33	D	E		Α	Yes	11		
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	1		
Methyl alcohol	MAL	20 ²	D	С		Α	Yes	1		
Methylamyl acetate	MAC	34	D	D		Α	Yes	1		
Methylamyl alcohol	MAA	20	D	D		Α	Yes	1		
Methyl amyl ketone	MAK	18	D	D		Α	Yes	1		
Methyl tert-butyl ether	MBE	41 2	D	С		Α	Yes	1		

^{***} This document is only valid when attached to, and referenced by a current, valid Certificate of Inspection. ***



enai #: Dated:

C1-1402513 21-Jul-14

Certificate of Inspection

Cargo Authority Attachment

Vessel Name: KIRBY 29116

Shipyard: Trinity Marine-Madisonville

Huli #: 2215-21

Official #: 1245370

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Cargo Identification							Conditions of Carriage				
Name	Chem	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	App'd (Y or N)	Recovery VCS Category	Special Requirements in 46 CFR	Insp. Period	
Methyl butyl ketone	MBK	18	D	С		Α	Yes	1			
Methyl butyrate	MBU	34	D	С		A	Yes	1			
Methyl ethyl ketone	MEK	18 ²	D	С		Α	Yes	1			
Methyl heptyl ketone	MHK	18	Đ	D		Α	Yes	11			
Methyl isobutyl ketone	MIK	18 ²	D	С		Α	Yes	1			
Methyl naphthalene (molten)	MNA	32	D	E		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	#		Α	Yes	1			
Naphtha: Petroleum	PTN	33	D	#		Α	Yes	1			
Naphtha: Solvent	NSV	33	D	Đ		Α	Yes	1			
Naphtha: Stoddard solvent	NSS	33	D	Đ		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		Α	Yes	1			
Nonyl phenol	NNP	21	D	Ε		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	Ε			Yes	1			
Octanol (all isomers)	OCX	20 ²	D	E		A	Yes	1			
Octene (all isomers)	OTX	30	D	С		Α	Yes	2			
Oil, fuel: No. 2	OTW	33	D	D/E		Α	Yes	1			
Oil, fuel: No. 2-D	OTD	33	D	D		A	Yes	1			
Oil, fuel: No. 4	OFR	33	D	D/E		Α	Yes	1			
Oil, fuel: No. 5	OFV	33	D	D/E		A	Yes	1			
Oil, fuel: No. 6	OSX	33	D	E		Α	Yes	1			
Oil, misc: Crude	OIL	33	D	C/D		Α	Yes	1			
Oil, misc: Diesel	ODS	33	D	D/E		Α	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			
Oil, misc: Turbine	OTB	33	D	E		Α	Yes	1			
Pentane (all isomers)	PTY	31	D	A		Α	Yes	5			
Pentene (all isomers)	PTX	30		A		Α	Yes	5			
n-Pentyl propionate	PPE	34		D		A	Yes	1			
alpha-Pinene	PIO	30	D	D		A	Yes	1			
beta-Pinene	PIP	30	D	D		A	Yes	1			
Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether	PAG	40		E		A	Yes	1			
Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether acetate	PAF	34		E		A	Yes	<u>.</u> 1			
Polybutene	PLB	30		E			Yes	<u>'</u>			
Polypropylene glycol	PGC	40		E			Yes	1			
iso-Propyl acetate	IAC	34		c			Yes	<u>·</u>			
n-Propyl acetate	PAT	34	<u> </u>	-c			Yes	1			
· · · · · · · · · · · · · · · · · · ·	IPA	20 ²	<u>D</u>	-c -		${A}$	Yes	<u>'</u>			
iso-Propyl alcohol	PAL	20 ²		-		-	Yes	_			
n-Propyl alcohol	PBY	32	D	<u> </u>		$\frac{}{A}$	Yes	1			
Propyibenzene (all isomers)	IPX	31	D	_ <u>D</u>		^		1			
iso-Propylcyclohexane	IFX_	J1	. U				Yes	1			



Serial #: C1-1402513 Dated:

21-Jul-14

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Vessel Name: KIRBY 29116

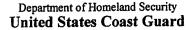
Shipyard: Trinity Marine-Madisonville

Hull #: 2215-21

Official #: 1245370

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Cargo Identification						Conditions of Carriage					
			I				Vapor Recovery				
Name Propylene glycol	Chem Code PPG	Compat Group No 20 ²	Sub Chapter D	Grade E	Hull Type	Tank Group A	App'd (Y or N) Yes	VCS Category 1	Special Requirements in 46 CFR 151 General and Mat'ls of	Insp. Period	
Propylene glycol methyl ether acetate	PGN	34	D	D		A	Yes	1	1,2,1		
Propylene tetramer	PTT	30	D	D		A	Yes	1			
Suifolane	SFL	39	D	E		Α	Yes	1			
Tetraethylene glycol	TTG	40	D	Ε		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	E		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	E		Α	Yes	1			
Undecene	UDC	30	D	D/E		Α	Yes	1			
1-Undecyl alcohol	UND	20	D	Ε		Α	Yes	1			
Xylenes (ortho-, meta-, para-)	XLX	32	D	D		A	Yes	1			



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Vessel Name: KIRBY 29116 Official #: 1245370

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Shipyard: Trinity Marine-

Hull #: 2215-21

Explanation of terms & symbols used in the Table:

Cargo Identification

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

Chem Code

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 ne 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 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.

Note 1

Note 2

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

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

Those flammable and combustible liquids listed in 48 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

A, B, C Note 4 carriage of that grade of cargo.
Flammable liquid cargoes, as defined in 46 CFR 30-10.22.

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

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

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

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

NA Hull Type

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 Recove

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 Recoven 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

Category 3

(Highly toxic) VCSs for these toxic cargoes cannot use a splil 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.