

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

Certification Date: 18 Jun 2021 Expiration Date: 18 Jun 2026

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 Numi	oer.	Call Sign	Service		
KIRBY 28162	1231264				Tank E	Barge	
							U.S.
Hailing Port	Hull Material	Horse	power	Propulsion			
WILMINGTON, DE	Steel						
UNITED STATES							
Place Built	Delivery Date	Keel Laid Date	Gross Tons	Net Tons	DWT	Length	
ASHLAND CITY, TN	29Mar2011	24Feb2011	R-1632	R-1632		R-300.0	
UNITED STATES							
	المال المالية	Billian				200	
Owner KIDRY INII AND MADINE I D		Operato		MARINE I P			
55 WAUGH DR STE 1000		1835	O MARKET	ST			
HOUSTON, TX 77007							
Place Built ASHLAND CITY, TN UNITED STATES Owner KIRBY INLAND MARINE LP 55 WAUGH DR STE 1000		24Feb2011 Operation KIRE 1835 CHA	R-1632 X SY INLAND 10 MARKET	MARINE, LP	DWT	300 Day 5	

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 Radio Officers	0 Second Assistant Engineers		
0 Third Mates	0 Able Seamen	0 Third Assistant Engineers		
0 Master First Class Pilot	0 Ordinary Seamen	0 Licensed Engineers		
0 Mate First Class Pilots	0 Deckhands	Qualified Member Engineer		1 Section

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 than twelve (12) miles from shore between St. Marks and Carrabelle, Florida.

This vessel has been granted a fresh water service examination interval per 46 CFR 31.10-21(a)(2). If this vessel is operated in salt water more than six (6) months in any twelve (12) month period, the vessel must be inspected using salt water intervals per 46 CFR 31.10-21(a)(1) and the cognizant OCMI notified in writing as soon as this change in status occurs.

SEE NEXT PAGE FOR ADDITIONAL CERTIFICATE INFORMATION

Annual/Periodic/Re-Inspection

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.

This cortificate issued by: 0

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Date	Zone	A/P/R	Signature ,	J. A. COLEMAN CDR, USCG, BY DIRECTION
5-4-22	Houston TX	1	Kandy Volan	Officer in Charge, Marine Inspection Houston-Galveston
814 123	Hoa	P	HAMILE	Inspection Zone



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

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Vessel Name: KIRBY 28162

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.

---Hull Exams---

Exam Type

Next Exam

Last Exam

Prior Exam

DryDock

31Mar2031

12May2021

29Mar2011

Internal Structure

31Mar2026

16Apr2021

04May2016

--- 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

28500

Barrels

Yes

No

Hazardous Bulk Solids Authority

Not Authorized

Loading Constraints - Structural

Tank Number	Max Cargo Weight per Tank (short tons)	Maximum Density (lbs/gal)
1 P/S	838	8.74
2 P/S	843	8.74
3 P/S	777	8.74

Loading Constraints - Stability

Hull Type	Maximum Load (short tons)	Maximum Draft (ft/in)	Max Density (lbs/gal)	Route Description
11	3804	10ft 0in	13.6	R, LBS
- III	4680	11ft 9in	13.6	R, LBS

Conditions Of Carriage

Only those cargoes named in the vessel's Cargo Authority Attachment (CAA), Serial # C1-1100494, dated February 23, 2011, may be carried, and then only in the tanks indicated. When the vessel is carrying cargoes containing greater than 0.5% benzene, the person in charge is responsible for ensuring the provisions of 46 CFR 197, Subpart C are applied.

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

The maximum design density of cargo which may be filled to the tank top is 8.74 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 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 collection system (VCS) has been evaluated and approved for multi-breasted tandem loading with this vessel.



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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 # C1-0901515 dated May 15, 2009 updated by MSC Letter # C1-1100494 dated February 23, 2011 and has been found acceptable for the collection of bulk liquid cargo vapors annotated with "Yes" in the CAA's VCS column. The VCS system has been approved with a pressure side of 6.0 psig P/V valve with Coast Guard Approval 162.017/167/2. The cargo tank top is suitable for a maximum allowable working pressure (MAWP) of 6.5 psig.

--- Inspection Status ---

Cargo Tanks

	Internal Exam			External Exan	n	
Tank Id	Previous	Last	Next	Previous	Last	Next
1 P/S	29Mar2011	16Apr2021	16Apr2031	-		-
2 P/S	29Mar2011	16Apr2021	16Apr2031	-	-	- ,
3 P/S	29Mar2011	16Apr2021	16Apr2031	-	-	-
			Hydro Test			
Tank Id	Safety Valves	3	Previous	Last	Next	
1 P/S	-		-	-	-	
2 P/S	-		-	-	F	
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 2 40-B

END

^{*}Vapor Control Authorization*





Cargo Authority Attachment

Vessel Name: KIRBY 28162

Official #: 1231264

Shipyard: Trinity Ashland City

Hull #: 4759

Tan	ank Group Information Cargo Identification		on		Cargo	Tanks			Cargo Transfer		Environmental Control		Fire	Special Requirements				
Tnk Grp	Tanks in Group	Density	Press.	Temp.	Hull Typ	Seg Tank	Туре	Vent	Gauge	Pipe Class	Cont	Tanks	Handling Space	Protection Provided	General	Materials of Construction	Elec Haz	Tem
A #	#1P/S, #2P/S, #3P/S	13.6	Atmos.	Amb.	II	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), (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.

List of Authorized Cargoes

Cargo Identification	Cargo Identification									
							Vapor Re			
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
Authorized Subchapter O Cargoes				C.						
Acetonitrile	ATN	37	0	С	Ш	Α	Yes	3	No	G
Acrylonitrile	ACN	15 ²	0	С	П	Α	Yes	4	.50-70(a), .55-1(e)	G
Adiponitrile	ADN	37	0	E	П	Α	Yes	1	No	G
Alkyl(C7-C9) nitrates	AKN	34 2	0	NA	III	Α	No	N/A	.50-81, .50-86	G
Aminoethylethanolamine	AEE	8	0	Е	111	Α	Yes	1	.55-1(b)	G
Ammonium bisulfite solution (70% or less)	ABX	43 2	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	111	Α	No	N/A	.56-1(a), (b), (c), (f), (g)	G
Anthracene oil (Coal tar fraction)	АНО	33	0	NA	11	Α	No	N/A	No	G
Benzene	BNZ	32	0	С	Ш	Α	Yes	1	.50-60	G
Benzene or hydrocarbon mixtures (having 10% Benzene or more)	ВНВ	32 ²	0	С	III	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	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	III	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	III	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	III	Α	No	N/A	.50-73, .55-1(j)	G
Chemical Oil (refined, containing phenolics)	COD	21	0	E	11	Α	No	N/A	.50-73	G
Chlorobenzene	CRB	36	0	D	III	Α	Yes	1	No	G
Chloroform	CRF	36	0	NA	111	Α	Yes	3	No	G
Coal tar naphtha solvent	NCT	33	0	D	III	Α	Yes	1	.50-73	G
Creosote	CCW	21 ²	0	Е	III	Α	Yes	1	No	G
Cresols (all isomers)	CRS	21	0	E	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		Ö	Е	Ш	Α	Yes	1	.55-1(f)	G
Crotonaldehyde	CTA	19 ²	0	С	II	A	Yes	4	.55-1(h)	G
Crude hydrocarbon feedstock (containing Butyraldehydes and Ethylpropyl acrolein)	CHG		0	С	Ш	Α	No	N/A	No	G
Cyclohexanone	ССН	18	0	D	III	A	Yes	1	.56-1(a), (b)	G
Cyclohexanone, Cyclohexanol mixture	CYX	18 ²	0	E	Ш	Α	Yes	1	.56-1 (b)	G
Cyclohexylamine	СНА	7	0		III	Α	Yes	1	.56-1(a), (b), (c), (g)	G

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

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

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



23-Feb-11

Certificate of Inspection

Cargo Authority Attachment

Vessel Name: KIRBY 28162 Official #: 1231264

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Shipyard: Trinity Ashland City

Cargo Identification	on					Conditions of Carriage				
							Vapor R	ecovery		
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
Cyclopentadiene, Styrene, Benzene mixture	CSB	30	0	D	III	Α	Yes	1	.50-60, .56-1(b)	G
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	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	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	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	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	Ш	Α	Yes	3	No	G
1,3-Dichloropropane	DPC	36	0	С	111	Α	Yes	3	No	G
1,3-Dichloropropene	DPU	15	0	D	Ш	Α	Yes	4	No	G
Dichloropropene, Dichloropropane mixtures	DMX	15	0	С	H	Α	Yes	1	No	G
Diethanolamine	DEA	8	0	Е	Ш	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	Е	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	II	Α	Yes	3	.55-1(c)	G
N,N-Dimethylacetamide	DAC	10	0	E	III	A	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	III	A	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	III	A	No	N/A	.56-1(b)	G
Dodecyl diphenyl ether disulfonate solution	DOS	43	0	#	11	A	No	N/A	No	G
EE Glycol Ether Mixture	EEG	40	0	 D	111	A	No	N/A	No	G
Ethanolamine	MEA	8	0	E	111	A	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	Α		Α	Yes	6	.55-1(b)	G
N-Ethylbutylamine	EBA	7	0	D	III	A	Yes	3	.55-1(b)	G
N-Ethylcyclohexylamine	ECC	7	0	D	Ш	Α	Yes	1	.55-1(b)	G
Ethylene cyanohydrin	ETC	20	0	E	 III	A	Yes	1	No	G
Ethylenediamine	EDA	7 2	0	D	111	A	Yes	1	.55-1(c)	G
Ethylene dichloride	EDC	36 ²	0	C	111	A	Yes	1	No	G
Ethylene glycol hexyl ether	EGH	40	0	E	III	A	No	N/A	No	G
Ethylene glycol monoalkyl ethers	EGC	40	0	D/E	111	A	Yes	1	No	G
Ethylene glycol propyl ether	EGP	40	0	E	111	A	Yes	1	No	G
2-Ethylhexyl acrylate	EAI	14	0	E	III	A	Yes	2	.50-70(a), .50-81(a), (b)	G
Ethyl methacrylate	ETM	14	0	D/E		A		2	.50-70(a)	G
2-Ethyl-3-propylacrolein	EPA	19 ²	0	E	111	A	Yes		No	G
Formaldehyde solution (37% to 50%)	FMS	19 ²	0	D/E		A A	Yes	1	.55-1(h)	G
Furfural	FFA	19	0	D/E	111	A A	Yes	1	.55-1(h)	G
Glutaraldehyde solution (50% or less)	GTA	19	0	NA	III	A			No No	G
			0	E		A	No Yes	N/A 1	.55-1(c)	G
	HMC									
Hexamethylenediamine solution	HMC	7								
	HMC HMI HFN	7	0	C C		A	Yes	1	.56-1(b), (c) .50-70(a), .50-81(a), (b)	G



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Certificate of Inspection

Cargo Authority Attachment

Vessel Name: KIRBY 28162 Official #: 1231264

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Shipyard: Trinity Ashland City

Cargo Identification	1					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	
Isoprene, Pentadiene mixture	IPN		0	В	Ш	Α	No	N/A	.50-70(a), .55-1(c)	G	
Kraft pulping liquors (free alkali content 3% or more)(including: Black Green, or White liquor)	KPL	5	0	NA	Ш	Α	No	N/A	.50-73, .56-1(a), (c), (g)	G	
Mesityl oxide	MSO	18 ²	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	111	Α	Yes	1	No	G	
Methyl diethanolamine	MDE	8	0	E	Ш	Α	Yes	1	.56-1(b), (c)	G	
2-Methyl-5-ethylpyridine	MEP	9	0	E	III	Α	Yes	1	.55-1(e)	G	
Methyl methacrylate	MMM	1 14	0	С	Ш	Α	Yes	2	.50-70(a), .50-81(a), (b)	G	
2-Methylpyridine	MPR	9	0	D	111	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	III	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	III	A	Yes	1	.50-81	G	
1,3-Pentadiene	PDE	30	0	Α		A	Yes	7	.50-70(a), .50-81	G	
Perchloroethylene	PER	36	0	NA NA	<u> </u>	A	No	N/A	No	G	
Polyethylene polyamines	PEB	7 ²	0	E	111	A			.55-1(e)	G	
iso-Propanolamine	MPA	8	0	E			Yes	11	.55-1(c)		
Propanolamine (iso-, n-)	PAX	8	0		111	A	Yes	1		G	
iso-Propylamine	IPP			E	111	A	Yes		.56-1(b), (c)	G	
Pyridine		7	0	A		A	Yes	5	.55-1(c)	G	
	PRD	9	0	С	111	A	Yes	1	.55-1(e)	G	
Sodium acetate, Glycol, Water mixture (3% or more Sodium Hydroxid			0		111	Α	No	N/A	.50-73, .55-1(j)	G	
Sodium aluminate solution (45% or less)	SAU	5	0	NA	111	Α	No	N/A	.50-73, .56-1(a), (b), (c)	G	
Sodium chlorate solution (50% or less)	SDD	0 1,2	0	NA	111	Α	No	N/A	.50-73	G	
Sodium hypochlorite solution (20% or less)	SHQ	5	0	NA	111	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	111	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	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	II	Α	No	N/A	.50-73, .55-1(b)	G	
Styrene (crude)	STX		0	D	Ш	Α	Yes	2	No	G	
Styrene monomer	STY	30	0	D	Ш	Α	Yes	2	.50-70(a), .50-81(a), (b)	G	
1,1,2,2-Tetrachloroethane	TEC	36	0	NA	Ш	Α	No	N/A	No	G	
Tetraethylenepentamine	TTP	7	0	E	111	Α	Yes	1	.55-1(c)	G	
Tetrahydrofuran	THF	41	0	С	III	Α	Yes	1	.50-70(b)	G	
Toluenediamine	TDA	9	0	Е	П	Α	No	N/A	.50-73, .56-1(a), (b), (c), (g)	G	
1,2,4-Trichlorobenzene	TCB	36	0	Ε	111	Α	Yes	1	No	G	
1,1,2-Trichloroethane	TCM	36	0	NA	111	Α	Yes	1	.50-73, .56-1(a)	G	
Trichloroethylene	TCL	36 ²	0	NA	HÍ	Α	Yes	1	No	G	
1,2,3-Trichloropropane	TCN	36	0	E	11	Α	Yes	3	.50-73, .56-1(a)	G	
Triethanolamine	TEA	8 ²	0	E	Ш	Α	Yes	1	.55-1(b)	G	
Triethylamine	TEN	7	0	С	11	Α	Yes	3	.55-1(e)	G	
Triethylenetetramine	TET	7 2	0	E	Ш	Α	Yes	1	.55-1(b)	G	
Triphenylborane (10% or less), caustic soda solution	TPB	5	0	NA	III	A	No	N/A	.56-1(a), (b), (c)	G	
Trisodium phosphate solution	TSP	5	0	NA	111	A	No	N/A	.50-73, .56-1(a), (c).	G	
Urea, Ammonium nitrate solution (containing more than 2% NH3)	UAS	6	0	NA	111	A	No	N/A	.56-1(b)	G	
Vanillin black liquor (free alkali content, 3% or more).	VBL	5	0	NA	111	A	No	N/A	.50-73, .56-1(a), (c), (g)	G	
Vinyl acetate	VAM	13	0	C	Ш	A	Yes	2	.50-70(a), .50-81(a), (b)	G	
Vinyl neodecanate	VND	13	0	E	111	A			.50-70(a), .50-81(a), (b)	G	
-	A 14D	10	0	_	111	^	No	N/A	.55 , U(a), .50-01(a), (b)	G	



Serial #: C1-1100494

Dated: 23-Feb-11

Certificate of Inspection

Cargo Authority Attachment

Vessel Name: KIRBY 28162
Official #: 1231264

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Shipyard: Trinity Ashland City

Cargo Identificatio	n					Conditions of Carriage						
							I commence the second	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		
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	i ²			
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	Ε		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	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 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	D		Α	Yes	1				
Caprolactam solutions	CLS	22	D	E		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		A	Yes	1				
iso-Decaldehyde	IDA	19	D	E		Α	Yes	1				
n-Decaldehyde	DAL	19	D	E		Α	Yes	1				
Decene	DCE	30	D	D		A	Yes	1		******		
Decyl alcohol (all isomers)	DAX	20 ²	D	E	- months modules con	A	Yes	1				
n-Decylbenzene, see Alkyl(C9+)benzenes	DBZ	32	D	E	-	A	Yes	1				
Diacetone alcohol	DAA	20 ²	D			A	Yes	1				
ortho-Dibutyl phthalate	DPA	34	D	E	V-0-10-1	A	Yes	1				
Diethylbenzene	DEB	32	D	D		A	Yes	1				
Diethylene glycol	DEG	40 ²	D	E		A	Yes	1				
Diisobutylene	DBL	30	D	C		A	Yes	1				
Diisobutyl ketone	DIK	18	D	D		A						
Diisopropylbenzene (all isomers)	DIX	32	D	E	-		Yes	1				
Dimethyl phthalate	DTL	34	D	E		Α	Yes	1				
Dioctyl phthalate	DOP					Α	Yes	1				
Dipentene Dipentene	DPN	34	D	E		A	Yes	1				
Diphenyl	DIL		D	D /F		Α	Yes	1				
Diphenyl, Diphenyl ether mixtures	DDO	32	D D	D/E E		Α	Yes	1				
Diphenyl ether mixtures	DPE					A	Yes	1				
Dipropylene glycol		41	D	{E}		A	Yes	11				
Distillates: Flashed feed stocks	DPG	40	D	E		A	Yes	1				
	DFF	33	D	E		A	Yes	1				
Distillates: Straight run	DSR	33	D	E		A	Yes	1				
Dodecene (all isomers)	DOZ	30	D	D		A	Yes	11				
Dodecylbenzene, see Alkyl(C9+)benzenes	DDB	32	D	E		A	Yes	1				
2-Ethoxyethyl acetate	EEA	34	D	D		Α	Yes	1				
Ethoxy triglycol (crude)	ETG	40	D	E		Α	Yes	1				

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



23-Feb-11

Certificate of Inspection

Cargo Authority Attachment

Vessel Name: KIRBY 28162 Official #: 1231264

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Shipyard: Trinity Ashland City

Cargo Identification	on					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		
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		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	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 ²	D	E		Α	Yes	1				
Gasoline blending stocks: Alkylates	GAK	33	D	A/C		Α	Yes	1				
Gasoline blending stocks: Reformates	GRF	33	D	A/C		Α	Yes	1				
Gasolines: Automotive (containing not over 4.23 grams lead per 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		/w		
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	E		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 ²	D	B/C	-	Α	Yes	1				
Hexanoic acid	НХО	4	D	Е		Α	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	E	Land Control of Control of Control	Α	Yes	1				
Isophorone	IPH	18 ²	D	E		Α	Yes	1				
Jet fuel: JP-4	JPF	33	D	E		Α	Yes	1				
Jet fuel: JP-5 (kerosene, heavy)	JPV	33	D	D		Α	Yes	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				
Methyl butyl ketone	MBK	18	D	С		Α	Yes	1				



23-Feb-11

Certificate of Inspection

Cargo Authority Attachment

Vessel Name: KIRBY 28162 Official #: 1231264

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Shipyard: Trinity Ashland City

Cargo Identification						Conditions of Carriage					
						-	Committee of the Commit				
Chem			Grade	Hull Type	Tank Group		VCS Category	Special Requirements in 46 CFR 151 General and Mat'ls of	Insp. Period		
MBU	34	D	С		Α	Yes	1				
MEK	18 ²	D	С		Α	Yes	1				
MHK	18	D	D		Α	Yes	1				
MIK	18 ²	D	С		Α	Yes	1				
MNA	32	D	E		Α	Yes	1				
MNS	33	D	D		Α	Yes	1				
MRE	30	D	D		Α	Yes	1				
NAG	33	D	#		Α	Yes	1				
PTN	33	D	#		Α	Yes	1				
NSV	33 .	D	D		Α	Yes	1	Held (1994) (1994) (New York) (1994)			
NSS	33	D	D		Α	Yes	1				
NVM	33	D	С		Α	Yes	1				
NAX	31	D	D		Α	Yes	1				
NON	30	D	D		Α	Yes	2				
NNS	20 ²	D	E		Α	Yes	1				
NNP	21	D	E		Α	Yes	1				
NPE	40	D	Е		Α	Yes	1				
OAX	31	D	С		Α	Yes	1				
OAY	4	D	Е		Α	Yes	1	And the second s	474		
OCX	20 ²	D	E		Α	Yes	1				
OTX	30	D	С		Α	Yes	2		***************************************		
OTW	33	D	D/E		Α	Yes	1				
OTD	33	D	D		Α	Yes	1				
OFR	33	D	D/E		Α	Yes	1	*			
OFV	33	D	D/E		Α	Yes	1				
OSX	33	D	E		A	Yes	1				
	33	D	C/D		Α	Yes	1				
		D			Α	Yes	1				
		D				Yes	1				
		D				****					
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PPG	20 ²	D	E		A	Yes	1				
	Chem Code MBU MEK MIK MIK MNA MNS MRE NAG PTN NSV NSS NVM NAX NON NNS NNP NPE OAX OAY OCX OTX OTW OTD OFR	Chem Code Compat Group No MBU 34 MEK 18 2 MHK 18 MIK 18 2 MNA 32 MNS 33 MRE 30 NAG 33 PTN 33 NSV 33 NVM 33 NAX 31 NON 30 NNS 20 2 NNP 21 NPE 40 OAX 31 OAY 4 OCX 20 2 OTX 30 OTW 33 OFR 33 OFR 33 OFR 33 OFR 33 OFB 33 ORL 33 ORL 33 ORL 33 ORL 33 ORL 33 PPE 34 PIO	Chem Code Compat Group No Chapter Sub Chapter MBU 34 D MEK 18 2 D MHK 18 D MIK 18 2 D MNA 32 D MNS 33 D NAG 33 D NSV 33 D NSS 33 D NVM 33 D NNS 33 D NNS 33 D NNM 30 D NNS 33 D NNS 33 D NNS 33 D NNP 21 D NNP 21 D NNP 21 D OAX 31 D OAX 31 D OTX 30 D OTW 33 D OTW 33 D OFR <td>Chem Code Compat Group No Chapter Sub Chapter Grade MBU 34 D C MEK 18 2 D C MHK 18 D D MIK 18 2 D C MNA 32 D E MNS 33 D D MRE 30 D D NAG 33 D # PTN 33 D # NSV 33 D D NSS 33 D D NVM 33 D D NNS 30 D E NNS 20 2 D E NNPE 40 D E OAX</td> <td>Chem Code Compat Group No Chapter Grade Sub Chapter Grade Hull Type MBU 34 D C MEK 18 2 D C MIK 18 8 D D MIK 18 2 D C MNA 32 D E MNS 33 D D NAG 33 D # PTN 33 D # NSV 33 D D NSS 33 D D NVM 33 D D NNS 33 D D NNM 31 D D NNN 20 2 D E NNP 21 D E NNP 21 D E OAX 31 D C OAX 31 D C OTW 33 D D/E</td> <td>Chem Code Compat Group No Sub Chapter Chapter Grade Hull Type Tank Group MBU 34 D C A MEK 18 2 D C A MIK 18 D D A MIK 18 2 D C A MNA 32 D E A MNS 33 D D A NAG 33 D # A NSS 33 D # A NSS 33 D D A NNS 20 2 D E A NNN 20 2 D E A NNS 20 2 D E A OAX 31 D C<!--</td--><td>Chem Code Compat Group No Chapter Sub Group Grade Hull Type Tank Group For No Group Vapor For App'd (Y or N) MBU 34 D C A Yes MHK 18 ² D C A Yes MIK 18 ² D C A Yes MNA 32 D E A Yes MRE 30 D D A Yes NAG 33 D B A Yes NSS 33 D D A Yes <td>Chem Code Code Group No Chapter Code Sub Group No Chapter Code Grade Type Hull Group Row Group Vapor Recovery Apple VCS (Y or N) Category MBU 34 D C A Yes 18 2 D C A Yes 1 D C A Yes 1 MHK 18 D D A Yes 1 MHK 18 D D D A Yes 1 MIK 18 2 D C A Yes 1 MHK 18 D D A Yes 1 MNA 32 D E A Yes 1 A Yes 1 MNS 13 D D A Yes 1 MRE 30 D D D A Yes 1 A Yes 1 NAG 33 D # A Yes 1 NSV 33 D D A Yes 1 NSS 33 D A Yes 1 NSS 1 NSV 33 D D A Yes 1 NSS 33 D D A Yes 1 NVM 33 D D A Yes 1 NVM 33 D A Yes 1 NNN 31 D D A Yes 1 NVM 33 D A Yes 1 NNN 30 D D D A Yes 1 NNN Yes 1 NNN 202 D D A Yes 1 NNN Yes 1 NNN 202 D D A Yes 1 NNN Yes 1 NNN 30 D D D A Yes 1 NYEs 1 NNN 30 D D D A Yes 1 NYEs 1 NNN 30 D D D A Yes 1 NYEs 1 NNN 30 D D D A Yes 1 NYEs 1 NNN 30 D D D A Yes 1 NYEs 1 NNN 30 D D C A Yes 1 NYEs 1 NNN 30 D D E A Yes 1 NYEs 1 NNP 40 D E A Yes 1 NYEs 1 OAX</td><td> Chem</td></td></td>	Chem Code Compat Group No Chapter Sub Chapter Grade MBU 34 D C MEK 18 2 D C MHK 18 D D MIK 18 2 D C MNA 32 D E MNS 33 D D MRE 30 D D NAG 33 D # PTN 33 D # NSV 33 D D NSS 33 D D NVM 33 D D NNS 30 D E NNS 20 2 D E NNPE 40 D E OAX	Chem Code Compat Group No Chapter Grade Sub Chapter Grade Hull Type MBU 34 D C MEK 18 2 D C MIK 18 8 D D MIK 18 2 D C MNA 32 D E MNS 33 D D NAG 33 D # PTN 33 D # NSV 33 D D NSS 33 D D NVM 33 D D NNS 33 D D NNM 31 D D NNN 20 2 D E NNP 21 D E NNP 21 D E OAX 31 D C OAX 31 D C OTW 33 D D/E	Chem Code Compat Group No Sub Chapter Chapter Grade Hull Type Tank Group MBU 34 D C A MEK 18 2 D C A MIK 18 D D A MIK 18 2 D C A MNA 32 D E A MNS 33 D D A NAG 33 D # A NSS 33 D # A NSS 33 D D A NNS 20 2 D E A NNN 20 2 D E A NNS 20 2 D E A OAX 31 D C </td <td>Chem Code Compat Group No Chapter Sub Group Grade Hull Type Tank Group For No Group Vapor For App'd (Y or N) MBU 34 D C A Yes MHK 18 ² D C A Yes MIK 18 ² D C A Yes MNA 32 D E A Yes MRE 30 D D A Yes NAG 33 D B A Yes NSS 33 D D A Yes <td>Chem Code Code Group No Chapter Code Sub Group No Chapter Code Grade Type Hull Group Row Group Vapor Recovery Apple VCS (Y or N) Category MBU 34 D C A Yes 18 2 D C A Yes 1 D C A Yes 1 MHK 18 D D A Yes 1 MHK 18 D D D A Yes 1 MIK 18 2 D C A Yes 1 MHK 18 D D A Yes 1 MNA 32 D E A Yes 1 A Yes 1 MNS 13 D D A Yes 1 MRE 30 D D D A Yes 1 A Yes 1 NAG 33 D # A Yes 1 NSV 33 D D A Yes 1 NSS 33 D A Yes 1 NSS 1 NSV 33 D D A Yes 1 NSS 33 D D A Yes 1 NVM 33 D D A Yes 1 NVM 33 D A Yes 1 NNN 31 D D A Yes 1 NVM 33 D A Yes 1 NNN 30 D D D A Yes 1 NNN Yes 1 NNN 202 D D A Yes 1 NNN Yes 1 NNN 202 D D A Yes 1 NNN Yes 1 NNN 30 D D D A Yes 1 NYEs 1 NNN 30 D D D A Yes 1 NYEs 1 NNN 30 D D D A Yes 1 NYEs 1 NNN 30 D D D A Yes 1 NYEs 1 NNN 30 D D D A Yes 1 NYEs 1 NNN 30 D D C A Yes 1 NYEs 1 NNN 30 D D E A Yes 1 NYEs 1 NNP 40 D E A Yes 1 NYEs 1 OAX</td><td> Chem</td></td>	Chem Code Compat Group No Chapter Sub Group Grade Hull Type Tank Group For No Group Vapor For App'd (Y or N) MBU 34 D C A Yes MHK 18 ² D C A Yes MIK 18 ² D C A Yes MNA 32 D E A Yes MRE 30 D D A Yes NAG 33 D B A Yes NSS 33 D D A Yes <td>Chem Code Code Group No Chapter Code Sub Group No Chapter Code Grade Type Hull Group Row Group Vapor Recovery Apple VCS (Y or N) Category MBU 34 D C A Yes 18 2 D C A Yes 1 D C A Yes 1 MHK 18 D D A Yes 1 MHK 18 D D D A Yes 1 MIK 18 2 D C A Yes 1 MHK 18 D D A Yes 1 MNA 32 D E A Yes 1 A Yes 1 MNS 13 D D A Yes 1 MRE 30 D D D A Yes 1 A Yes 1 NAG 33 D # A Yes 1 NSV 33 D D A Yes 1 NSS 33 D A Yes 1 NSS 1 NSV 33 D D A Yes 1 NSS 33 D D A Yes 1 NVM 33 D D A Yes 1 NVM 33 D A Yes 1 NNN 31 D D A Yes 1 NVM 33 D A Yes 1 NNN 30 D D D A Yes 1 NNN Yes 1 NNN 202 D D A Yes 1 NNN Yes 1 NNN 202 D D A Yes 1 NNN Yes 1 NNN 30 D D D A Yes 1 NYEs 1 NNN 30 D D D A Yes 1 NYEs 1 NNN 30 D D D A Yes 1 NYEs 1 NNN 30 D D D A Yes 1 NYEs 1 NNN 30 D D D A Yes 1 NYEs 1 NNN 30 D D C A Yes 1 NYEs 1 NNN 30 D D E A Yes 1 NYEs 1 NNP 40 D E A Yes 1 NYEs 1 OAX</td> <td> Chem</td>	Chem Code Code Group No Chapter Code Sub Group No Chapter Code Grade Type Hull Group Row Group Vapor Recovery Apple VCS (Y or N) Category MBU 34 D C A Yes 18 2 D C A Yes 1 D C A Yes 1 MHK 18 D D A Yes 1 MHK 18 D D D A Yes 1 MIK 18 2 D C A Yes 1 MHK 18 D D A Yes 1 MNA 32 D E A Yes 1 A Yes 1 MNS 13 D D A Yes 1 MRE 30 D D D A Yes 1 A Yes 1 NAG 33 D # A Yes 1 NSV 33 D D A Yes 1 NSS 33 D A Yes 1 NSS 1 NSV 33 D D A Yes 1 NSS 33 D D A Yes 1 NVM 33 D D A Yes 1 NVM 33 D A Yes 1 NNN 31 D D A Yes 1 NVM 33 D A Yes 1 NNN 30 D D D A Yes 1 NNN Yes 1 NNN 202 D D A Yes 1 NNN Yes 1 NNN 202 D D A Yes 1 NNN Yes 1 NNN 30 D D D A Yes 1 NYEs 1 NNN 30 D D D A Yes 1 NYEs 1 NNN 30 D D D A Yes 1 NYEs 1 NNN 30 D D D A Yes 1 NYEs 1 NNN 30 D D D A Yes 1 NYEs 1 NNN 30 D D C A Yes 1 NYEs 1 NNN 30 D D E A Yes 1 NYEs 1 NNP 40 D E A Yes 1 NYEs 1 OAX	Chem		





23-Feb-11

Certificate of Inspection

Cargo Authority Attachment

Vessel Name: KIRBY 28162 Official #: 1231264

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Shipyard: Trinity Ashland City

Cargo Identification						Conditions of Carriage					
Name							Vapor Recovery				
	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	E		Α	Yes	1			
Tetraethylene glycol	TTG	40	D	E		Α	Yes	1			
Tetrahydronaphthalene	THN	32	D	Е		Α	Yes	1	The state of the s		
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	Е		Α	Yes	1	Period de la companya		
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	Е		Α	Yes	1			
Undecene	UDC	30	D	D/E		Α	Yes	1			
1-Undecyl alcohol	UND	20	D	Е		Α	Yes	1			
Xylenes (ortho-, meta-, para-)	XLX	32	D	D		Α	Yes	1			



Department of Homeland Security United States Coast Guard

Serial #: C1-1100494

23-Feb-11

Certificate of Inspection

Cargo Authority Attachment

Vessel Name: KIRBY 28162 Official #: 1231264

Page 8 of 8

Shipyard: Trinity Ashland

Hull #: 4759

Explanation of terms & symbols used in the Table:

Cargo Identification

Name

Chem Code

Compatability Group No.

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 The cargo reactive group number assigned for compatibility determinations in 46 CFR Part 150 Tables I and II. In accordance with 46 CFR 150.130, the Person-in-Charge of the barge is responsible for ensuring that the compatibility requirements of 46 CFR Part 150 are met. Cargoes must be checked for compatibility using the figures, tables,

and appendices of 46 CFR 150 in conjunction with the assigned reactive group number.

Because of the very high reactivity or unusual conditions of carriage or potential compatibility problems, this product is not assigned to a specific group in the

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

0001. Telephone (202) 372-1425.

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

Subchapter Subchapter D 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 D, E 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 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 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 CFR 156.170, 46 CFR 39.35 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 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 1cargoes. 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