

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

Certification Date:	13 Jul 2021
Expiration Date:	13 Jul 2026

Tank Barge

Certificate of Inspection

Vessel Name Official Number IMO Number Cell Sign Service **KIRBY 28160**

Hailing Port WILMINGTON, DE

Hull Material

this certificate fulfills the requirements

Propulsion

Steel

1231262

UNITED STATES

Place Built ASHLAND CITY, TN

Delivery Date Keel Laid Date 25Mar2011 11Feb2011 Gross Tons

R-1632

DWT Net Tons

R-1632

d, regulation V/14, for a SAFE MANNING DOCUMENT.

Length R-300.0

ю

UNITED STATES

Owner KIRBY INLAND MARINE LP 55 WAUGH DR STE 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 Chief Mates 0 Licensed Mates **0 First Class Pilots** **0 Chief Engineers**

0 Second Mates

0 First Assistant Engineers

0 Third Mates

0 Radio Officers

0 Second Assistant Engineers 0 Third Assistant Engineers

0 Master First Class Pilot

0 Able Seamen 0 Ordinary Seamen

0 Mate First Class Pilots

0 Deckhands

0 Licensed Engineers

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

This vessel has been granted a fresh water service examination interval in accordance with 46 CFR 31.10-21(a) (2). If this vessel is operated in salt water more than six (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 must be notified in writing as soon as this change in status occurs.

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.

	Annual/Periodi	ic/Re-In:	spection
Date	Zone	A/P/R	Signature
5.4.22	HOUSTON	A	JAKE FRANCIS
6/29/23	Hou	ρ	Andrew Maharai
B-7- 24	PORT ATTHUS TX	A	Billan Berry
		18	

This certificate issued by: C J. A. COLEMAN COR, USCG, BY DIRECTION

Officer in Charge, Marine Inspection

Houston-Galveston

Inspection Zone



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

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Vessel Name: KIRBY 28160

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

09Jun2021

25Mar2011

Internal Structure

31Mar2026

13Jul2021

21Apr2016

--- 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

28500

Barrels

Yes

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
II	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.



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

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Certificate of Inspection

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In accordance with 46 CFR Part 39, excluding Part 39.4000, this vessel's vapor collection system (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.

Per 46 CFR Part 39.1017 and 39.5000(e) this vessel's VCS has been evaluated and approved for multi-breasted tandem loading with other vessels specifically approved to tandem load with this vessel.

--- Inspection Status ---

Fuel Tanks

Internal Examinations

Tank ID Previous Last Next
Machinery Deck - 25Mar2011 -

Cargo Tanks

	Internal Exam	ſ		External Exar	n	
Tank Id	Previous	Last	Next	Previous	Last	Next
1 P/S	25Mar2011	12May2021	12May2031	-	- , " ,	-
2 P/S	25Mar2011	12May2021	12May2031		-	-
3 P/S	25Mar2011	12May2021	12May2031	=	-	-
			Hydro Test			
Tank Id	Safety Valves	5	Previous	Last	Next	
1 P/S	-1		(-)	25Mar2011	-	
2 P/S	-		-	25Mar2011	-	
3 P/S	_		-	25Mar2011	-	

--- 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 2 Class Type

40-B

END

^{*}Vapor Control Authorization*





Serial #: C1-1100494

23-Feb-11

Certificate of Inspection

Cargo Authority Attachment

Vessel Name: KIRBY 28160 Official #: 1231262

Shipyard: Trinity Ashland City

Hull #: 4757

ank Group Information	Cargo I	dentificati	on		Cargo	1	Tanks		Carg Tran		Enviror Control	nmental	Fire	Special Require	ments		
nk rp 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	Tem
#1P/S, #2P/S, #3P/S	13.6	Atmos.	Amb.	11	1 ii 2 ii	Integral Gravity	PV	Closed	II	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.

List of Authorized Cargoes

Cargo Identification	n					Conditions of Carriage							
							Vapor R						
Name	Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	App'd (Y or N)	VCS Category	Special Requirements in 46 CFR 151 General and Mat'ls of	Insp. Period			
Authorized Subchapter O Cargoes									·				
Acetonitrile	ATN	37	0	С	Ш	Α	Yes	3	No	G			
Acrylonitrile	ACN	15 ²	0	С	11	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	111	Α	No	N/A	.50-81, .50-86	G			
Aminoethylethanolamine	AEE	8	0	E	III	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	Ш	Α	No	N/A	.56-1(a), (b), (c), (f), (g)	G			
Anthracene oil (Coal tar fraction)	AHO	33	0	NA	П	Α	No	N/A	No	G			
Benzene	BNZ	32	0	С	111	Α	Yes	1	.50-60	G			
Benzene or hydrocarbon mixtures (having 10% Benzene or more)	внв	32 ²	0	С	HE	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	111	Α	Yes	2	.50-70(a), .50-81(a), (b)	G			
Butyl methacrylate	ВМН	14	0	D	[]]	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	H	Α	No	N/A	No	G			
Carbon tetrachloride	CBT	36	0	NA	Ш	Α	No	N/A	No	G			
Caustic potash solution	CPS	5 ²	0	NA	Ш	Α	No	N/A	.50-73, .55-1(j)	G			
Caustic soda solution	CSS	5 ²	0	NA	111	Α	No	N/A	.50-73, .56-1(j)	G			
Chemical Oil (refined, containing phenolics)	COD	21	0	E	П	Α	No	N/A	.50-73	G			
Chlorobenzene	CRB	36	0	D	111	Α	Yes	1	No	G			
Chloroform	CRF	36	0	NA	111	Α	Yes	3	No	G			
Coal tar naphtha solvent	NCT	33	0	D	[]]	Α	Yes	1	.50-73	G			
Creosote	CCW	21 ²	0	Е	111	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		0	E	111	Α	Yes	1	.55-1(Г)	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	Ш	Α	No	N/A	No	G			
Ovelete													
Cyclohexanone	CCH	18	0	D	111	Α	Yes	1	.56-1(a), (b)	G			
Cyclohexanone, Cyclohexanol mixture	CCH CYX	18 18 ²	0	D E	111 111	A A	Yes Yes	1	.56-1(a), (b) .56-1 (b)	G G			

^{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.





Certificate of Inspection

Cargo Authority Attachment

Vessel Name: KIRBY 28160

Official #: 1231262

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Shipyard: Trinity Ashland City

Name Chem Compat Code Group No Chapter Grade Hull Tank April Tank April Apri	R Insp. Period G G G G G G G G G G G G G G G G G G G
Name Code Group No Chatter Grade Type Grade Type Grade Type Grade Type Typ	Period G G G G G G G G G G G G G
So-Decyl acrylate	G G G G G G G G G G G G G G G G G G G
Dichlorobenzene (all isomers)	G G G G G G G G G G G G G G G G G G G
1,1-Dichloroethane	G G G G G G G G G G G G G G G G G G G
DEE 41 O D II A Yes 1 .55-1(f)	G G G G G G G G G G G G G G G G G G G
Dichloromethane DCM 36 O NA III A Yes 5 No 2,4-Dichlorophenoxyacetic acid, diethanolamine salt solution DDE 43 O E III A No N/A .56-1(a), (b), (c), (g) 2,4-Dichlorophenoxyacetic acid, triisopropanolamine salt solution DTI 43 O E III A No N/A .56-1(a), (b), (c), (g) 2,4-Dichlorophenoxyacetic acid, triisopropanolamine salt solution DTI 43 O E III A No N/A .56-1(a), (b), (c), (g) 2,4-Dichlorophenoxyacetic acid, triisopropanolamine salt solution DTI 43 O E III A No N/A .56-1(a), (b), (c), (g) 1,1-Dichloropropane DPB 36 O C III A Yes 3 No 1,2-Dichloropropane DPC 36 O C III A Yes 3 No 1,3-Dichloropropane DPU 15 O D <t< td=""><td>G G G G G G</td></t<>	G G G G G G
2,4-Dichlorophenoxyacetic acid, diethanolamine salt solution DDE 43 O E III A No N/A .56-1(a), (b), (e), (g) 2,4-Dichlorophenoxyacetic acid, dimethylamine salt solution DAD 0 1.2 O A III A No N/A .56-1(a), (b), (e), (g) 2,4-Dichlorophenoxyacetic acid, triisopropanolamine salt solution DTI 43 2 O E III A No N/A .56-1(a), (b), (e), (g) 1,1-Dichlorophenoxyacetic acid, triisopropanolamine salt solution DTI 43 2 O E III A No N/A .56-1(a), (b), (e), (g) 1,1-Dichloropropane DPB 36 O C III A Yes 3 No 1,2-Dichloropropane DPC 36 O C III A Yes 3 No 1,3-Dichloropropane DPU 15 O D II A Yes 4 No 1,3-Dichloropropane DMX 15 O C II A Yes 4 No	G G G G G G
2,4-Dichlorophenoxyacetic acid, dimethylamine salt solution DAD 0 1.2	G G G G G
2,4-Dichlorophenoxyacetic acid, triisopropanolamine salt solution DTI 43 ° 2 O E III A Yes 3 No N/A Yes 3 No No N/A Yes 1 No No N/A Yes No N/A Yes No N/A Yes No N/A No N/A Yes No N/A N/A Yes N/A N/A Yes N/A N/A N/A N/A N/A Yes N/A	G G G G
1,1-Dichloropropane DPB 36 O C III A Yes 3 No 1,2-Dichloropropane DPP 36 O C III A Yes 3 No 1,3-Dichloropropane DPC 36 O C III A Yes 3 No 1,3-Dichloropropane DPU 15 O D II A Yes 4 No 1,3-Dichloropropane DPU 15 O D II A Yes 4 No Dichloropropane mixtures DMX 15 O C II A Yes 1 No Dichloropropane mixtures DMX 15 O C II A Yes 1 No Dichloropropane mixtures DEA 8 O E III A Yes 3 .55-1(c) Diethylamine DEN 7 O C III A Yes 3 .55-1(c) Diethylenetriamine DBU 7 O D III A Yes 3 .55-1(c) Dilsopropanolamine DIP 8 O E III A Yes 3 .55-1(c) Dilsopropylamine DIA 7 O C II A Yes 3 .55-1(c) N,N-Dimethylacetamide DAC 10 O E III A Yes 3 .56-1(b)	G G G G
1,2-Dichloropropane DPP 36 O C III A Yes 3 No 1,3-Dichloropropane DPC 36 O C III A Yes 3 No 1,3-Dichloropropene DPU 15 O D II A Yes 4 No Dichloropropene, Dichloropropane mixtures DMX 15 O C II A Yes 1 No Dichloropropene, Dichloropropane mixtures DMX 15 O C III A Yes 1 .55-1(c) Diethanolamine DEA 8 O E III A Yes 3 .55-1(c) Diethylamine DET 7 O C III A Yes 3 .55-1(c) Disobutylamine DBU 7 O D III A Yes 3 .55-1(c) Disopropanolamine DIP 8 O E III A Yes 1 .55-1(c) Disopropylamine DIA 7 O C II A Yes 3 .55-1(c) N,N-Dimethylacetamide DAC 10 O E III A Yes 3 .56-1(b)	G G G
1,3-Dichloropropane DPC 36 O C III A Yes 3 No 1,3-Dichloropropene DPU 15 O D II A Yes 4 No Dichloropropene, Dichloropropane mixtures DMX 15 O C II A Yes 1 No Diethanolamine DEA 8 O E III A Yes 1 .55-1(c) Diethylamine DEN 7 O C III A Yes 3 .55-1(c) Dilsobutylamine DBU 7 O D III A Yes 3 .55-1(c) Dilsopropanolamine DIP 8 O E III A Yes 3 .56-1(c) Diisopropylamine DIA 7 O C II A Yes 3 .56-1(c) N,N-Dimethylacetamide DAC 10 O E I	G G G
1,3-Dichloropropene DPU 15 O D II A Yes 4 No Dichloropropene, Dichloropropane mixtures DMX 15 O C III A Yes 1 No Diethanolamine DEA 8 O E III A Yes 1 .55-1(e) Diethylamine DET 7° O C III A Yes 1 .55-1(e) Dilsobutylamine DBU 7° O D III A Yes 3 .55-1(e) Dilsopropanolamine DIP 8 O E III A Yes 3 .55-1(e) Disopropylamine DIA 7° O C II A Yes 3 .56-1(e) N,N-Dimethylacetamide DAC 10 O E III A Yes 3 .56-1(b)	G G
Dichloropropene, Dichloropropane mixtures DMX 15 O C II A Yes 1 No Diethanolamine DEA 8 O E III A Yes 1 .55-1(e) Diethylamine DEN 7 O C III A Yes 3 .55-1(e) Diisobutylamine DBU 7 O D III A Yes 3 .55-1(e) Diisopropanolamine DIP 8 O E III A Yes 3 .55-1(e) Diisopropylamine DIA 7 O C II A Yes 3 .55-1(e) N,N-Dimethylacetamide DAC 10 O E III A Yes 3 .56-1(b)	G
Diethanolamine DEA 8 O E III A Yes 1 .55-1(c) Diethylamine DEN 7 O C III A Yes 3 .55-1(c) Diethylenetriamine DET 7 ° 2 O E III A Yes 1 .55-1(c) Diisobutylamine DBU 7 O D III A Yes 3 .55-1(c) Diisopropanolamine DIA 7 O C II A Yes 3 .55-1(c) N,N-Dimethylacetamide DAC 10 O E III A Yes 3 .56-1(b)	G
Diethylamine DEN 7 O C III A Yes 3 .55-1(e) Diethylenetriamine DET 7 ° 2 ° 0 ° E III ° A Yes ° 1 ° .55-1(e) Diisobutylamine DBU ° 7 ° 0 ° D III ° A ° Yes ° 3 ° .55-1(e) Diisopropanolamine DIP ° 8 ° 0 ° E III ° A ° Yes ° 3 ° .55-1(e) Diisopropylamine DIA ° 7 ° 0 ° C ° II ° A ° Yes ° 3 ° .55-1(e) N,N-Dimethylacetamide DAC ° 10 ° 0 ° E ° III ° A ° Yes ° 3 ° .56-1(b)	
Diethylenetriamine DET 7 2 O E III A Yes 1 .55-1(c) Diisobutylamine DBU 7 O D III A Yes 3 .55-1(c) Diisopropanolamine DIP 8 O E III A Yes 1 .55-1(c) Diisopropylamine DIA 7 O C II A Yes 3 .56-1(c) N,N-Dimethylacetamide DAC 10 O E III A Yes 3 .56-1(b)	G
Diisobutylamine DBU 7 O D III A Yes 3 .55-1(c) Diisopropanolamine DIP 8 O E III A Yes 1 .55-1(c) Diisopropylamine DIA 7 O C II A Yes 3 .56-1(c) N,N-Dimethylacetamide DAC 10 O E III A Yes 3 .56-1(b)	~
Diisopropanolamine DIP 8 O E III A Yes 1 .55-1(e) Diisopropylamine DIA 7 O C II A Yes 3 .56-1(c) N,N-Dimethylacetamide DAC 10 O E III A Yes 3 .56-1(b)	G
Diisopropylamine DIA 7 O C II A Yes 3 .56-1(e) N,N-Dimethylacetamide DAC 10 O E III A Yes 3 .56-1(b)	G
N,N-Dimethylacetamide DAC 10 O E III A Yes 3 .56-1(b)	G
	G
	G
Dimethylethanolamine DMB 8 O D III A Yes 1 .56-1(b), (c)	G
Dimethylformamide DMF 10 O D III A Yes 1 .55-1(e)	G
Di-n-propylamine DNA 7 O C II A Yes 3 .55-1(c)	G
Dodecyldimethylamine, Tetradecyldimethylamine mixture DOT 7 O E III A No N/A .56-1(b)	G
Dodecyl diphenyl ether disulfonate solution DOS 43 O # II A No N/A No	G
EE Glycol Ether Mixture EEG 40 O D III A No N/A No	G
Ethanolamine MEA 8 O E III A Yes 1 .55-1(c)	G
Ethyl acrylate EAC 14 O C III A Yes 2 .50-70(a), .50-81(a), (b)	G
Ethylamine solution (72% or less) EAN 7 O A II A Yes 6 .55-1(b)	G
N-Ethylbutylamine EBA 7 O D III A Yes 3 .55-1(b)	G
N-Ethylcyclohexylamine ECC 7 O D III A Yes 1 .55-1(b)	G
Ethylene cyanohydrin ETC 20 O E III A Yes 1 No	G
Ethylenediamine EDA 7 2 Q D III A Yes 1 .55-1(c)	G
Ethylene dichloride EDC 36 ² O C III A Yes 1 No	G
Ethylene glycol hexyl ether EGH 40 O E III A No N/A No	G
Ethylene glycol monoalkyl ethers EGC 40 O D/E III A Yes 1 No	G
Ethylene glycol propyl ether EGP 40 O E III A Yes 1 No	G
2-Ethylhexyl acrylate EAI 14 O E III A Yes 2 .50-70(a), .50-81(a), (b)	G
Ethyl methacrylate ETM 14 O D/E III A Yes 2 50-70(a)	G
2-Ethyl-3-propylacrolein EPA 19 ² O E III A Yes 1 No	G
Formaldehyde solution (37% to 50%) FMS 19 2 O D/E III A Yes 1 .55-1(h)	G
Furfural FFA 19 O D III A Yes 1 .55-1(h)	G
Glutaraldehyde solution (50% or less) GTA 19 O NA III A No N/A No	G
Hexamethylenediamine solution HMC 7 O E III A Yes 1 .55-1(c)	G
Hexamethyleneimine HMI 7 O C II A Yes 1 .56-1(b), (c)	G
Hydrocarbon 5-9 HFN O C III A Yes 1 .50-70(a) .50-81(a) (b)	G
Isoprene IPR 30 O A III A Yes 7 .50-70(a) .50-81(a) (b)	G





Certificate of Inspection

Cargo Authority Attachment

Vessel Name: KIRBY 28160

Official #: 1231262

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Shipyard: Trinity Ashland City

C1-1100494

Cargo Identification	1							Condi	tions of Carriage			
	1		-		_	 	Vapor 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		
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	A	No	N/A	.50-73, .56-1(a), (c), (g)	G		
Mesityl oxide	MSO	18 ²	0	D	181	Α	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	111	Α	Yes	1	.56-1(b), (c)	G		
2-Methyl-5-ethylpyridine	MEP	9	0	E	Ш	Α	Yes	1	.55-1(e)	G		
Methyl methacrylate	MMM	14	0	C	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	111	Α	Yes	2	.50-70(a), .50-81(a), (b)	G		
Morpholine	MPL	7 2	0	D	H	Α	Yes	1	.55-1(c)	G		
Nitroethane	NTE	42	0	D	Ш	Α	No	N/A	.50-81, .56-1(b)	G		
1- or 2-Nitropropane	NPM	42	0	D	Ш	Α	Yes	1	.50-81	G		
1,3-Pentadiene	PDE	30	0	Α	[]]	Α	Yes	7	.50-70(a), .50-81	G		
Perchloroethylene	PER	36	0	NA	Ш	Α	No	N/A	No	G		
Polyethylene polyamines	PEB	7 2	0	Ε	Ш	Α	Yes	1	.55-1(e)	G		
iso-Propanolamine	MPA	8	0	E	Ш	Α	Yes	1	.55-1(c)	G		
Propanolamine (iso-, n-)	PAX	8	0	E	Ш	Α	Yes	1	.56-1(b), (c)	G		
iso-Propylamine	IPP	7	0	Α	П	Α	Yes	5	.55-1(c)	G		
Pyridine	PRD	9	0	С	111	Α	Yes	1	.55-1(e)	G		
Sodium acetate, Glycol, Water mixture (3% or more Sodium Hydroxide) SAP		0		141	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	III	Α	No	N/A	.50-73, .56-1(a), (b)	G		
Sodium sulfide, hydrosulfide solution (H2S 15 ppm or less)	SSH	0 1,2	0	NA	Ш	Α	Yes	1	.50-73, .55-1(b)	G		
Sodium sulfide, hydrosulfide solution (H2S greater than 15 ppm but less than 200 ppm)	SSI	0 1,2	0	NA	111	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	П	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 .	III	Α	Yes	2	.50-70(a), .50-81(a), (b)	G		
1,1,2,2-Tetrachloroethane	TEC	36	0	NA	Ш	A	No	N/A	No	G		
Tetraethylenepentamine	TTP	7	0	Ε	111	Α	Yes	1	.55-1(c)	G		
Tetrahydrofuran	THE	41	0	С	[]]	Α	Yes	1	.50-70(b)	G		
Toluenediamine	TDA	9	0	Е	II	Α	No	N/A	.50-73, .56-1(a), (b), (c), (g)	G		
1,2,4-Trichlorobenzene	TCB	36	0	E	TIT	Α	Yes	1	No	G		
1,1,2-Trichloroethane	TCM	36	0	NA		Α	Yes	1	.50-73, .56-1(a)	G		
Trichloroethylene	TCL	36 ²	0	NA	Ш	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	111	Α	Yes	1	.55-1(b)	G		
Triphenylborane (10% or less), caustic soda solution	TPB	5	0	NA	Ш	Α	No	N/A	.56-1(a), (b), (c)	G		
Trisodium phosphate solution	TSP	5	0	NA	III	Α	No	N/A	.50-73, .56-1(a), (c).	G		
Urea, Ammonium nitrate solution (containing more than 2% NH3)	UAS	6	0	NA]	Α	No	N/A	56-1(b)	G		
Vanillin black liquor (free alkali content, 3% or more).	VBL	5	0	NA	111	Α	No	N/A	50-73, .56-1(a), (c), (g)	G		
Vinyl acetate	VAM	13	0	С	111	Α	Yes	2	.50-70(a), .50-81(a), (b)	G		
Vinyl neodecanate	VND	13	0	E	H	Α	No	N/A	.50-70(a), .50-81(a), (b)	G		
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 28160

Official #: 1231262

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Shipyard: Trinity Ashland City

Cargo Identificatio	n							Condi	tions of Carriage	
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Huli Type	Tank Group	App'd	Recovery 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	Е		Α	Yes	1		
Amyl acetate (all isomers)	AEC	34	D	D		Α	Yes	1		_
Amyl alcohol (iso-, n-, sec-, primary)	AAI	20	D	D		Α	Yes	1		
Benzyl 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		A	Yes	1		
Butyl acetate (all isomers)	BAX	34	D	D		Α	Yes	1		
Butyl alcohol (iso-)	IAL	20 ²	D	D		Α	Yes	11		
Butyl alcohol (n-)	BAN	20 ²	D	D		A	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	Е		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 ²	D	E		Α	Yes	1		
n-Decylbenzene, see Alkyl(C9+)benzenes	DBZ	32	D	Е		Α	Yes	1		
Diacetone alcohol	DAA	20 2	D	D		Α	Yes	1		
ortho-Dibutyl phthalate	DPA	34	D	Ε		Α	Yes	1		
Diethylbenzene	DEB	32	D	D		Α	Yes	1		
Diethylene glycol	DEG	40 ²	D	Е		A	Yes	1		
Diisobutylene	DBL	30	D	С		Α	Yes	1		
Diisobutyl ketone	DIK	18	D	D		A	Yes	1		
Diisopropylbenzene (all isomers)	DIX	32	D	Е		Α	Yes	1		
Dimethyl phthalate	DTL	34	D	E		Α	Yes	1		
Dioctyl phthalate	DOP	34	D	Е		A	Yes	1		
Dipentene	DPN	30	D	D		A	Yes	1		
Diphenyl	DIL	32	D	D/E		Α	Yes	1		
Diphenyl, Diphenyl ether mixtures	DDO	33	D	E		A	Yes	1		
Diphenyl ether	DPE	41	D	{E}		A	Yes	1		
Dipropylene glycol	DPG	40		E		A	Yes	1		
Distillates: Flashed feed stocks	DFF	33	D	Е		Α	Yes	1		
Distillates: Straight run	DSR	33		E		Α	Yes	1		
Dodecene (all isomers)	DOZ	30		 D		A	Yes	1		
Dodecylbenzene, see Alkyl(C9+)benzenes	DDB	32		E		A	Yes	1		
2-Ethoxyethyl acetate	EEA	34		D		A	Yes	1		
Ethoxy triglycol (crude)	ETG	40		E		A	Yes	1		
73.700 (0.000)							100			





Certificate of Inspection

Cargo Authority Attachment

Vessel Name: KIRBY 28160

Official #: 1231262

Page 5 of 8

Shipyard: Trinity Ashland City

Cargo Identification	n							Condi	tions of Carriage	-
								Recovery		
Name	Chem	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	App'd (Y or N)	VCS Category	Special Requirements in 46 CFR 151 General and Mat'ls of	Insp. Period
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	Е		Α	Yes	1		
Ethylene glycol butyl ether acetate	EMA	34	D	E		Α	Yes	1		
Ethylene glycol diacetate	EGY	34	D	Ε		Α	Yes	1		
Ethylene glycol phenyl ether	EPE	40	D	Е		Α	Yes	1		
Ethyl-3-ethoxypropionate	EEP	34	D	D		Α	Yes	1		
2-Ethylhexanol	EHX	20	D	Ε		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	Е		Α	Yes	1		
Furfuryl alcohol	FAL	20 ²	D	Е		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	Ð	С		Α	Yes	1		
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		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		A	Yes	1		
Heptanol (all isomers)	HTX	20	D	D/E		Α	Yes	1		
Hieptene (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	В/С		Α	Yes	1		
Hexanoic acid	НХО	4	D	Ε		A	Yes	1		
Hexanol	HXN	20	D	D		Α	Yes	1		
Hexene (all isomers)	HEX	30	D	С		A	Yes	2		
Hexylene glycol	HXG	20	D	E		Α	Yes	1		
!sophorone	IPH	18 ²	D	E		A	Yes	1		
Jet fuel: JP-4	JPF	33	D	E		A	Yes	1		
Jet fuel: JP-5 (kerosene, heavy)	JPV	33	D	D		A	Yes	1		
Kerosene	KRS	33	D	D		A	Yes	1		
Methyl acetate	MTT	34	D	D		A	Yes	1		
Methyl alcohol	MAL	20 ²	D	C		A	Yes	1		
Methylamyl acetate	MAC	34	D	0		A	Yes	1		
Methylamyl alcohol	MAA	20	D	D		A	Yes	1		
Methyl amyl ketone	MAK	18		D		A	Yes	1		
Methyl tert-butyl ether	MBE	41 2		С		A	Yes	1		
Methyl butyl ketone	MBK	18	D	С		A	Yes	1		





Certificate of Inspection

Cargo Authority Attachment

Vessel Name: KIRBY 28160

Official #: 1231262

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Shipyard: Trinity Ashland City

Name	Cargo Identification	n						Condi	tions of Carriage	
Marby Marb			1				Vapor	Recovery		$\overline{}$
Methy days betone	Name				Grade					
Methyl isobhyk ketnee	Methyl butyrate	MBU	34	D	С	Α	Yes	1		
Methyl riaphthalene (molten) Milk 18 2 D C A Yes 1 Methyl riaphthalene (molten) MNS 32 D E A Yes 1 Myconen MRE 30 D D A Yes 1 Myconen MRE 30 D D A Yes 1 Naphthar Febroleum PTN 33 D # A Yes 1 Naphthar Sloudserd NSS 33 D D A Yes 1 Naphthar Sloudserd solvent NSS 33 D D A Yes 1 Naphthar Sloudserd solvent NSS 33 D D A Yes 1 Naphthar Sloudserd solvent NSS 33 D D A Yes 1 Naphthar Sloudserd solvent NS 20 D A Yes 1 Norancia (ali Somers) NS 20 D	Methyl ethyl ketone	MEK	18 ²	D	С	Α	Yes	1		
Methy Applications (molitien) Minka 32 D E A Yes 1	Methyl heptyl ketone	MHK	18	D	D	Α	Yes	1		
Mineral spiritis	Methyl isobutyl ketone	MIK	18 ²	D	С	Α	Yes	1		
Myrene	Methyl naphthalene (molten)	MNA	32	D	Е	Α	Yes	1		
Naphtha: Heavy	Mineral spirits	MNS	33	D	D	Α	Yes	1		
Naphtha: Solvent	Myrcene	MRE	30	D	D	Α	Yes	1		
Naphtha: Solvent	Naphtha: Heavy	NAG	33	D	#	Α	Yes	1		
Naphtha: Stoddard solvent	Naphtha: Petroleum	PTN	33	D	#	Α	Yes	1		
Naphtha: Varnish makers and painters (75%) NVM 33 D C A Yes 1	Naphtha: Solvent	NSV	33	D	D	Α	Yes	1		
Nonane (all isomers) see Alkanes (C6-C9)	Naphtha: Stoddard solvent	NSS	33	D	D	Α	Yes	1		
Nonne (all isomers)	Naphtha: Varnish makers and painters (75%)	NVM	33	D	С	Α	Yes	1		
Nony facional (all laomers)	Nonane (all isomers), see Alkanes (C6-C9)	NAX	31	D	D	Α	Yes	1		
Nonyl phenol NNP	Nonene (all isomers)	NON	30	D	D	Α	Yes	2		
Nonly phenol poly(4+)ethoxylates	Nonyl alcohol (all isomers)	NNS	20 ²	D	E	Α	Yes	1		
Octane (all isomers), see Alkanes (C6-C9)	Nonyl phenol	NNP	21	D	Ε	Α	Yes	1		
Octanoic acid (all isomers)	Nonyl phenol poly(4+)ethoxylates	NPE	40	D	Е	 Α	Yes	1		
Octanol (all isomers)	Octane (all isomers), see Alkanes (C6-C9)	OAX	31	D	С	Α	Yes	1		
Ottone (all isomers)	Octanoic acid (all isomers)	OAY	4	D	E	 Α	Yes	1		
Oil, fuel: No. 2	Octanol (all isomers)	OCX	20 ²	D	E	 A	Yes	1		
Oil, fuel: No. 2-D OTD 33 D D A Yes 1 Oil, fuel: No. 4 OFR 33 D D/E A Yes 1 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 Oil, misc: Diesel ODS 33 D D/E A Yes 1 Oil, misc: Bais, high pour OGP 33 D E A Yes 1 Oil, misc: Lubricating OLB 33 D E A Yes 1 Oil, misc: Turbine ORL 33 D E A Yes 1 Oil, misc: Turbine OTB 33 D E A Yes 1 Pentane (all isomers) PTY 31 D<	Octene (all isomers)	OTX	30	D	С	Α	Yes	2		
Oil, fuel: No. 4	Oil, fuel: No. 2	OTW	33	D	D/E	 Α	Yes	1		
Oil, fuel: No. 5	Oil, fuel: No. 2-D	OTD	33	D	D	Α	Yes	1		
Oil, fuel: No. 6	Oil, fuel: No. 4	OFR	33	D	D/E	Α	Yes	1		
Oil, misc: Crude	Oil, fuel: No. 5	OFV	33	D	D/E	Α	Yes	1		
Oil, misc: Diesel ODS 33 D D/E 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 Oll, misc: Turbine OTB 33 D E A Yes 1 Pentane (all isomers) PTY 31 D A A Yes 5 Pentane (all isomers) PTX 30 D A A Yes 5 Pentane (all isomers) PTX 30 D A A Yes 5 Pentane (all isomers) PTX 30 D A A Yes 5 n-Pentyl propionate PPE 34 D D A Yes 1 alpha-Pinene PIO 30	Oil, fuel: No. 6	OSX	33	D	Ε	 Α	Yes	1		
Oli, misc: Gas, high pour OEP 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 A Yes 1 Pentane (all isomers) PTY 31 D A A Yes 5 Pentane (all isomers) PTX 30 D A A Yes 5 Pentane (all isomers) PTX 30 D A A Yes 5 Pentane (all isomers) PTX 30 D A A Yes 5 n-Pentyl propionate PPE 34 D D A Yes 1 beta-Pinene PIO 30 D D A Yes 1 Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether PAG	Oil, misc: Crude	OIL	33	D	C/D	Α	Yes	1		
OLB 33 D E A Yes 1	Oil, misc: Diesel	ODS	33	D	D/E	Α	Yes	1		
Oil, misc: Residual ORL 33 D E A Yes 1 Oil, misc: Turbine OTB 33 D E A Yes 1 Pentane (all isomers) PTY 31 D A 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 A Yes 1 beta-Pinene PIP 30 D D A Yes 1 Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether PAG 40 D E A Yes 1 Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether acetate PAF 34 D E A Yes 1 Poly(2-8)alkylene glycol monoalkyl(C1-C	Oil, misc: Gas, high pour	OGP	33	D	E	A	Yes	1		
Oil, misc: Turbine OTB 33 D E A Yes 1 Pentane (all isomers) PTY 31 D A 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 A Yes 1 Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether PAG 40 D E A Yes 1 Polybutene PLB 30 D E A Yes 1 Polybutene PLB 30 D E A Yes 1 Polypropylene glycol PGC 40 D E A Yes 1 n-Propyl acetate PAT 34 D	Oil, misc: Lubricating	OLB	33	D	E	A	Yes	1		
Pentane (all isomers) PTY 31 D A 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 A Yes 1 Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether PAG 40 D E A Yes 1 PolyC-8)alkylene glycol monoalkyl(C1-C6) ether acetate PAF 34 D E A Yes 1 Polybutene PLB 30 D E A Yes 1 Polybropylene glycol PGC 40 D E A Yes 1 so-Propyl acetate IAC 34 D C A Yes 1 so-Propyl alcohol IPA <td>Oil, misc: Residual</td> <td>ORL</td> <td>33</td> <td>D</td> <td>Е</td> <td>Α</td> <td>Yes</td> <td>1</td> <td></td> <td></td>	Oil, misc: Residual	ORL	33	D	Е	Α	Yes	1		
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 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 Polypropylene glycol monoalkyl(C1-C6) ether acetate PAF 34 D E A Yes 1 Polypropylene glycol monoalkyl(C1-C6) ether acetate PAG 40 D E A Yes 1 Polypropylene glycol PGC 40 D E A Yes 1 so-Propyl acetate IA Yes 1 A Yes 1	Oil, misc: Turbine	OTB	33	D	Е	Α	Yes	1		
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 A Yes 1 Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether PAG 40 D E A Yes 1 PolyC2-8)alkylene glycol monoalkyl(C1-C6) ether acetate PAF 34 D E A Yes 1 Polypropylene glycol PLB 30 D E A Yes 1 Polypropylene glycol PGC 40 D E A Yes 1 so-Propyl acetate IAC 34 D C A Yes 1 so-Propyl alcohol IPA 20 2 D C A Yes 1 Propylbenzene (all isomers) PBY 32 D D A Yes 1	Pentane (all isomers)	PTY	31	D	A	Α	Yes	5		
alpha-Pinene PIO 30 D D A Yes 1 beta-Pinene PIP 30 D D D A Yes 1 Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether PAG 40 D E A Yes 1 PolyC2-8)alkylene glycol monoalkyl(C1-C6) ether acetate PAF 34 D E A Yes 1 Polypropylene glycol PGC 40 D E A Yes 1 Polypropyl acetate IAC 34 D C A Yes 1 n-Propyl acetate PAT 34 D C A Yes 1 iso-Propyl alcohol IPA 20 2 D C A Yes 1 Propylbenzene (all Isomers) PBY 32 D D A Yes 1	Pentene (all isomers)	PTX	30	D	A	A	Yes	5		
alpha-Pinene PIO 30 D D A Yes 1 beta-Pinene PIP 30 D D D A Yes 1 Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether PAG 40 D E A Yes 1 PolyC2-8)alkylene glycol monoalkyl(C1-C6) ether acetate PAF 34 D E A Yes 1 Polypropylene glycol PGC 40 D E A Yes 1 Polypropyl acetate IAC 34 D C A Yes 1 n-Propyl acetate PAT 34 D C A Yes 1 iso-Propyl alcohol IPA 20 2 D C A Yes 1 Propylbenzene (all Isomers) PBY 32 D D A Yes 1	n-Pentyl propionate	PPE	34	D	D	A	Yes	1		
Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether PAG 40 D E A Yes 1 Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether acetate PAF 34 D E A Yes 1 Polybutene PLB 30 D E A Yes 1 Polypropylene glycol PGC 40 D E A Yes 1 iso-Propyl acetate IAC 34 D C A Yes 1 n-Propyl acetate PAT 34 D C A Yes 1 iso-Propyl alcohol IPA 20 2 D C A Yes 1 n-Propyl alcohol PAL 20 2 D C A Yes 1 Propylbenzene (all Isomers) PBY 32 D D A Yes 1		PIO	30	D	D			1		
Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether PAG 40 D E A Yes 1 Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether acetate PAF 34 D E A Yes 1 Polybutene PLB 30 D E A Yes 1 Polypropylene glycol PGC 40 D E A Yes 1 iso-Propyl acetate IAC 34 D C A Yes 1 n-Propyl acetate PAT 34 D C A Yes 1 iso-Propyl alcohol IPA 20 2 D C A Yes 1 n-Propyl alcohol PAL 20 2 D C A Yes 1 Propylbenzene (all isomers) PBY 32 D D A Yes 1	beta-Pinene	PIP	30	D	D	A	Yes	1		
Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether acetate PAF 34 D E A Yes 1 Polybutene PLB 30 D E A Yes 1 Polypropylene glycol PGC 40 D E A Yes 1 iso-Propyl acetate IAC 34 D C A Yes 1 n-Propyl acetate PAT 34 D C A Yes 1 iso-Propyl alcohol IPA 20 2 D C A Yes 1 n-Propyl alcohol PAL 20 2 D C A Yes 1 Propylbenzene (all isomers) PBY 32 D D A Yes 1				D	E	 				
Polybutene PLB 30 D E A Yes 1 Polypropylene glycol PGC 40 D E A Yes 1 iso-Propyl acetate IAC 34 D C A Yes 1 n-Propyl acetate PAT 34 D C A Yes 1 iso-Propyl alcohol IPA 20 2 D C A Yes 1 Propyl alcohol PAL 20 2 D C A Yes 1 Propylbenzene (all isomers) PBY 32 D D A Yes 1		PAF	34	D	E					
Polypropylene glycol PGC 40 D E A Yes 1 iso-Propyl acetate IAC 34 D C A Yes 1 n-Propyl acetate PAT 34 D C A Yes 1 iso-Propyl alcohol IPA 20 2 D C A Yes 1 Propyl alcohol PAL 20 2 D C A Yes 1 Propylbenzene (all isomers) PBY 32 D D A Yes 1		PLB	30	D	E					
iso-Propyl acetate	Polypropylene glycol	PGC	40	D	E			·		
n-Propyl acetate PAT 34 D C A Yes 1 iso-Propyl alcohol IPA 20 ° D C A Yes 1 n-Propyl alcohol PAL 20 ° D C A Yes 1 Propylbenzene (all Isomers) PBY 32 D D A Yes 1	iso-Propyl acetate	IAC				 				
iso-Propyl alcohol IPA 20 ° D C A Yes 1 n-Propyl alcohol PAL 20 ° D C A Yes 1 Propylbenzene (all Isomers) PBY 32 D D A Yes 1						 				
n-Propyl alcohol PAL 20 ² D C A Yes 1 Propylbenzene (all Isomers) PBY 32 D D A Yes 1						 				
Propylbenzene (all isomers) PBY 32 D D A Yes 1						 				
	• •									
iso-Propylcyclohexane IPX 31 D D A Yes 1	iso-Propylcyclohexane									
Propylene glycol PPG 20 ² D E A Yes 1										





Vessel Name: KIRBY 28160

Official #: 1231262

Certificate of Inspection

Cargo Authority Attachment

Shipyard: Trinity Ashland City Page 7 of 8

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Dated:

Cargo Identification						Conditions of Carriage				
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	App'd	Recovery VCS Category	Special Requirements in 46 CFR 151 General and Mat'ls of	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	E		Α	Yes	1		
Toluene	TOL	32	D	С		Α	Yes	1		
Tricresyl phosphate (less than 1% of the ortho isomer)	TCP	34	D	E		Α	Yes	1		
Triethylbenzene	TEB	32	D	E		Α	Yes	1		
Triethylene glycol	TEG	40	D	Ε		Α	Yes	1		
Triethyl phosphate	TPS	34	D	Е		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	E^{α}		A	Yes	1		
Xylenes (ortho-, meta-, para-)	XLX	32	D	D		Α	Yes	1		



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

Serial #: C1-1100494

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Vessel Name: KIRBY 28160 Official #: 1231262

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Shipyard: Trinity Ashland

Hull #: 4757

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

Note 1

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-

Note 2 See Appendix I to 46 CFR Part 150 - exceptions to the compatability chart.

Subchanter Subchapter D Subchapter O 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.

A, B, C

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.

Note 4

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

The required barge hull classification for carriage of the specified Subchapter O hazardous material cargo, see 46 CFR 151.10-1.

111

NA

Designed to carry products which require the maximum preventive measures to preclude the uncontrolled release of the cargo. See 46 CFR 151.10-1(b)(1). Designed to carry products which require significant preventive measures to preclude the uncontrolled release of cargo. See 46 CFR 151.10-1(b)(3)

Designed to carry products of sufficeint hazard to require a moderate degree of control. See 46 CFR 151.10-1(b)(4).

Not applicable to barges certificated under Subchapter D.

Conditions of Carriage

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

Yes: The vessel's VCS has been reviewed and approved by the MSC to control yappres 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 loange. 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, Manne 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 Category 5

(Polymerizes and highly toxic) Must comply with requirements of Categories 1, 2 and 3, (High vapor pressure) VCS pressure drop calculations for cargoes with a vapor pressure greater than 14.7 psia at 115 F must take into account increased vapor-air mixture densities and vapor growth rates as compared to Category 1 cargoes. Consult the Marine Safety Center's VCS Guidelines for further information. This requirement is in addition to the requirements of Category 1.

Category 6

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

Category 7 поле

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