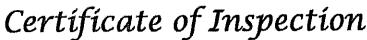


UNITED STATES

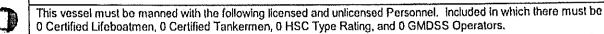
United States of America Department of Homeland Security United States Coast Guard

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



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

Vessel Rama	Ogosi Nauper	PAO Numb	¥	Ca't Sign	Service		
KIRBY 28710	1262756				Tank B	Barge	
Haling Port WILMINGTON, DE	Hou Material Steel	Horse	cow #f	Propulsion			
UNITED STATES							
Place Dot GALVESTON, TX	Delivery Date 18Dac2015	Keel Laid Date 07May2015	Gross Tons R-1637	Net Tons R-1632 F	owt	Length R-300.0 H0	
UNITED STATES							
CAMEN KIRBY INLAND MARINE LP 55 WAUGH DRIVE SUITE 1000 HOUSTON TX 77007		1835	Y INLAND 0 MARKE	MARINE LP T STREET N. TX 77530			



1					
	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 Seamon	0 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		
-					

UNITED STATES

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.

Also, Lake Michigan, in Tair weather on voyages between Chicago, Illinois and Burns Harbor, Indiana not more than five (5) miles offshore.

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/Perio	dic/Re-In:	spection	This certificate issued by:
Date	Zone	A/P/R	Signature	J. A. COLEMAN CDR USCG, BY DIRECTION
6-15-22	NELL	A. P	Anterior Hillary	Officer in Charge, Manna Inspection Houston-Galveston
1-10-4024	NOCH	17-	Mulphy 4-11-ACY	Inspection Zone

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

OMB No 2115-0517



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

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

Certificate of Inspection

Vessel Name: KIRBY 28710

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.

Thermal fluid heater may only be operated when carrying grade "E" cargoes.

The vessel is inspected and approved for the carriage of grade "E" combustible liquids when transported in molten form at elevated temperatures.

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

31Dec2025

18Dec2015

Internal Structure

31Dec2025

18Jun2021

18Dec2015

--- 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

27979

Barrel

Yes

No

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	736	13.6
2 P/S	860	13.6
3 P/S	674	13.6

Loading Constraints - Stability

Hull Type	Maximum Load (short tons)	Maximum Draft (ft/in)	Max Density (lbs/gal)	Route Description
II	3577	9ft 6in	13.6	R, LBS
Ш	4329	11ft 0in	13.6	R, LBS

Conditions Of Carriage

Only those cargoes named in the vessel's Cargo Authority Attachment (CAA), Serial # C1-1501124, dated March 17, 2015, 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.



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

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

Certificate of Inspection

Vessel Name: KIRBY 28710

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, excluding Part 39.4000, this vessel's vapor collection system (VCS) has been inspected to the plans approved by MSC Letter # C1-1501124 dated March 17, 2015 updated by MSC Letter # C1-1601673 dated May 2, 2016 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 3.0 psig 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 3.5 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 ---

Cargo Tanks

	Internal Exam			External Exan	n	
Tank Id	Previous	Last	Next	Previous	Last	Next
1 P/S	-	18Dec2015	18Dec2025	(H)	-	-
2 P/S	-	18Dec2015	18Dec2025		-	-
3 P/S	-	18Dec2015	18Dec2025	-	-	-
×			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

2

40-B

END

^{*}Vapor Control Authorization*



C1-1501124 Dated:

17-Mar-15

Certificate of Inspection

Cargo Authority Attachment

Vessel Name: KIRBY 28710 Official #: 1262756

Shipyard: WEST GULF MARINE

46 CFR 151 Tank (Tank Group Information	T	dentificat			Cargo	Tanks Cargo Environmental Transfer 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	Temp Cont
A #1 P/S, #2 P/S, #3 P/S	13.6	Atmos.	Elev	П	1ii 2ii	Integral Gravity	PV	Closed	П	G-1	NR	NA	Portable	.50-60, .50-70(a), .50-70(b), .50-73,	55-1(b), (c), (e), (f), (j), 56-1(a), (b), (c), (d), (e), (f), (g),	NR	No

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

List of Authorized Cargoes

Cargo Identification	Cargo Identification									
							Vapor Re			
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	App'd (Y or N)	VCS Category	Special Requirements in 46 CFR 151 General and Mat'ls of	Insp. Period
Authorized Subchapter O Cargoes										
Acetonitrile	ATN	37	0	С	111	Α	Yes	3	No	G
Acrylonitrile	ACN	15 ²	0	С	31	Α	Yes	4	.50-70(a), .55-1(e)	G
Adiponitrile	ADN	37	0	Ε	П	Α	Yes	1	No	G
Alkyl(C7-C9) nitrates	AKN	34 2	0	NA	Ш	Α	No	N/A	.50-81, .50-86	G
Aminoethylethanolamine	AEE	8	0	E	111	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)	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	111	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	111	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	111	Α	Yes	2	.50-70(a), .50-81(a), (b)	G
Butyraldehyde (all isomers)	BAE	19	0	С	Ш	Α	Yes	1	.55-1(h)	G
Camphor oil (light)	CPO	18	0	D	11	Α	No	N/A	No	G
Carbon tetrachloride	СВТ	36	0	NA	111	Α	No	N/A	No	G
Caustic potash solution	CPS	5 ²	0	NA	111	Α	No	N/A	.50-73, .55-1(j)	G
Caustic soda solution	CSS	5 ²	0	NA	111	Α	No	N/A	.50-73, .55-1(j)	G
Chemical Oil (refined, containing phenolics)	COD	21	0	Е	11	Α	No	N/A	.50-73	G
Chlorobenzene	CRB	36	0	D	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	111	Α	Yes	1	.50-73	G
Coal tar pitch (molten)	CTP	33	0	Е	Ш	Α	No	N/A	.50-73	G
Creosote	CCW	21 2	0	Е	111	Α	Yes	1	No	G
Cresols (all isomers)	CRS	21	0	Ε	Ш	Α	Yes	1	No	G
Cresylate spent caustic	CSC	5	0	NA	111	Α	No	N/A	.50-73, .55-1(b)	G
Cresylic acid tar	CRX	21	0	E	111	Α	Yes	1	.55-1(f)	G
Crotonaldehyde	СТА	19 ²	0	С	11	Α	Yes	4	.55-1(h)	G
Crude hydrocarbon feedstock (containing Butyraldehydes and Ethylpropyl acrolein)	CHG	19 ²	0	С	111	Α	Yes	1	No	G
Cyclohexanone	ССН	18	0	D	Ш	Α	Yes	1	.56-1(a), (b)	G
Cyclohexanone, Cyclohexanol mixture	CYX	18 ²	0	Е	111	Α	Yes	1	.56-1 (b)	G
Cyclohexylamine	CHA	7	0	D	111	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.

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



C1-1501124 17-Mar-15

Certificate of Inspection

Cargo Authority Attachment

Vessel Name: KIRBY 28710

Shipyard: WEST GULF

MARINE

Official #: 1262756 Page 2 of 8

Hull #: 250

Cargo Identification	n			11			(Condi	tions of Carriage	
							Vapor R	Recovery		
Name	Chem	Compat Group No			Hull Type	Tank Group		VCS Category	Special Requirements in 46 CFR 151 General and Mat'ls of .50-60, .56-1(b)	Insp. Period G
Cyclopentadiene, Styrene, Benzene mixture	CSB	30	0	D	111	A	Yes	1	.50-70(a), .50-81(a), (b), .55-1(c)	G
iso-Decyl acrylate	IAI	14	0	E		A	Yes	2		G
Dichlorobenzene (all isomers)	DBX	36	0	E	- 111	A	Yes	3	.56-1(a), (b)	
1,1-Dichloroethane	DCH	36	0	С	111	A	Yes	1	No	G
2,2'-Dichloroethyl ether	DEE	41	0	D	- 11	Α	Yes	1	.55-1(f)	
Dichloromethane	DCM		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		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	111	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	П	Α	Yes	4	No	G
Dichloropropene, Dichloropropane mixtures	DMX	.15	0	С	11	Α	Yes	1	No	G
Diethanolamine	DEA	8	0	E	Ш	Α	Yes	1	.55-1(c)	G
Diethylamine	DEN	7	0	С	111	Α	Yes	3	.55-1(c)	G
Diethylenetriamine	DET	7 2	0	Е	Ш	Α	Yes	1	.55-1(c)	G
Diisobutylamine	DBU	7	0	D	111	Α	Yes	3	.55-1(c)	G
Diisopropanolamine	DIP	8	0	Е	Ш	Α	Yes	1	.55-1(c)	G
Diisopropylamine	DIA	7	0	С	11	Α	Yes	3	.55-1(c)	G
N,N-Dimethylacetamide	DAC	10	0	E	III	Α	Yes	3	.56-1(b)	G
Dimethylethanolamine	DMB	8	0	D	111	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	11	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	#	11	Α	No	N/A	No	G
EE Glycol Ether Mixture	EEG	40	0	D	III	Α	No	N/A	No	G
Ethanolamine	MEA	8	0	E		Α	Yes	1	.55-1(c)	G
Ethyl acrylate	EAC	14	0		III	A	Yes	2	.50-70(a), .50-81(a), (b)	G
Ethylamine solution (72% or less)	EAN	7	0	Α	II	Α	No	N/A	.55-1(b)	G
	EBA	7	0	D	III	Α	Yes	3	.55-1(b)	G
N-Ethylbutylamine	ECC	7	0	D	III	A	Yes	1	.55-1(b)	G
N-Ethylcyclohexylamine	ETC	20		E	 III	A	Yes	1	No	G
Ethylene cyanohydrin	EDA	7 2	0		 	Α	Yes	1	.55-1(c)	G
Ethylenediamine	EDC	36 ²	0	C	111	A	Yes	<u>'</u>	No	G
Ethylene dichloride			0	E	111	A	No	N/A	No	G
Ethylene glycol hexyl ether	EGH	40				A	Yes	1	No	G
Ethylene glycol monoalkyl ethers	EGC	40	0	D/E	111			1	No	G
Ethylene glycol propyl ether	EGP	40	0	E		A	Yes		.50-70(a), .50-81(a), (b)	G
2-Ethylhexyl acrylate	EAI	14	0	E	111	A	Yes	2	.50-70(a)	G
Ethyl methacrylate	ETM	14	0	D/E	111	A	Yes	2	.50-70(a)	G
2-Ethyl-3-propylacrolein	EPA	19 ²	0	E	111	A	Yes	1	.55-1(h)	G
Formaldehyde solution (37% to 50%)	FMS	19 ²	0	D/E	111	A	Yes	1		G
Furfural	FFA	19	0	D	111	A	Yes	1	.55-1(h)	G
Glutaraldehyde solution (50% or less)	GTA	19	0	NA	111	Α	No	N/A	No	
Hexamethylenediamine solution	НМС		0	E	111	A .	Yes	1	.55-1(c)	G
Hexamethyleneimine	HMI	7	0	С		Α	Yes	1	.56-1(b), (c)	
Hydrocarbon 5-9	HFN	31	0	С	111	Α	Yes	1	.50-70(a), .50-81(a), (b)	G
Isoprene	IPR	30	0	Α	Ш	A	No	N/A	.50-70(a), .50-81(a), (b)	G



C1-1501124

Certificate of Inspection

Cargo Authority Attachment

Vessel Name: KIRBY 28710

Shipyard: WEST GULF

Conditions of Carriage

MARINE 250

Official #: 1262756

Cargo Identification

Page 3 of 8

Cargo identification	511							Condi	lions of Carriage	
Name	Chem Code IPN	Compat Group No		Grade B	Hull Type	Tank Group	App'd (Y or N)		Special Requirements in 46 CFR 151 General and Mat'ls of .50-70(a), .55-1(c)	Insp. Period
Isoprene, Pentadiene mixture Kraft pulping liquors (free alkali content 3% or more)(including: Black Green, or White liquor)		30 5	0	NA	111	A	No No	N/A N/A	.50-73, .56-1(a), (c), (g)	G
Mesityl oxide	MSO	18 ²	0	D	111	Α	Yes	1	No	G
Methyl acrylate	MAM		0	C	111	Α	Yes		.50-70(a), .50-81(a), (b)	G
Methylcyclopentadiene dimer	MCK	30	0	C	III	A	Yes		No	G
Methyl diethanolamine	MDE	8	0	E	III	Α	Yes		.56-1(b), (c)	G
2-Methyl-5-ethylpyridine	MEP	9	0	E	III	Α	Yes		.55-1(e)	G
Methyl methacrylate	MMM		0	C	111	Α	Yes		.50-70(a), .50-81(a), (b)	G
2-Methylpyridine	MPR	9	0		111	A	Yes	3	.55-1(c)	G
alpha-Methylstyrene	MSR	30	0	D	111	Α	Yes		.50-70(a), .50-81(a), (b)	G
Morpholine	MPL	7 2	0	D	111	A	Yes		.55-1(c)	G
	NTM	32	0	С	111	Α	Yes		No	G
Naphthalene (molten)	NTE	42	0	D		A	No	N/A	.50-81, .56-1(b)	G
Nitroethane	NPM	42	0	D	111	A	Yes	1	.50-81	G
1- or 2-Nitropropane			0	A	111	A	No	N/A	.50-70(a), .50-81	G
1,3-Pentadiene	PDE	30 36	0	NA	111	A	No	N/A	No	G
Perchloroethylene	PER			E			Yes	1	No	G
Phthalic anhydride (molten)	PAN	11	0		111	A			.55-1(e)	G
Polyethylene polyamines	PEB	7 2	0	E		A	Yes		.55-1(c)	G
iso-Propanolamine	MPA	8	0	E	111	A	Yes	1	.56-1(b), (c)	G
Propanolamine (iso-, n-)	PAX	8	0	E	111	A	Yes	1	.55-1(c)	G
iso-Propylamine	IPP	7	0	A		A	Yes	5		G
Pyridine	PRD	9	0	С	111	A	Yes	1	.55-1(e)	G
Sodium acetate, Glycol, Water mixture (3% or more Sodium Hydroxide)	SAP	5	0		111	Α	No	N/A	.50-73, .55-1(j)	
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	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	III	Α	No	N/A	.50-73, .55-1(b)	G
Sodium sulfide, hydrosulfide solution (H2S greater than 200 ppm)	SSJ	0 1,2	0	NA	- 11	Α	No	N/A	.50-73, .55-1(b)	G
Styrene (crude)	STX	30	0	D	Ш	Α	Yes	2	No	G
Styrene monomer	STY	30	0	D	111	Α	Yes	2	.50-70(a), .50-81(a), (b)	G ·
1,1,2,2-Tetrachloroethane	TEC	36	0	NA	111	Α	No	N/A	No	G
Tetraethylenepentamine	TTP	7	0	E	111	Α	Yes	1	.55-1(c)	G
Tetrahydrofuran	THF	41	0	С	111	Α	Yes	1	.50-70(b)	G
Toluenediamine	TDA	9	0	E	11	Α	No	N/A	.50-73, .56-1(a), (b), (c), (g)	G
1,2,4-Trichlorobenzene	ТСВ	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	111	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	Е	111	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	Е	111	Α	Yes	1	.55-1(b)	G
Triphenylborane (10% or less), caustic soda solution	TPB	5	0	NA	111	Α	No	N/A	.56-1(a), (b), (c)	G
Trisodium phosphate solution	TSP	5	0	NA	Ш	Α	No	N/A	.50-73, .56-1(a), (c).	G
Urea, Ammonium nitrate solution (containing more than 2% NH3)	UAS	6	0	NA	III	Α	No	N/A	.56-1(b)	G
Vanillin black liquor (free alkali content, 3% or more).	VBL	5	0	NA	111	Α	No	N/A	.50-73, .56-1(a), (c), (g)	G

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



C1-1501124 17-Mar-15 Dated:

Certificate of Inspection

Cargo Authority Attachment

Vessel Name: KIRBY 28710

Shipyard: WEST GULF MARINE

Hull #: 250

Official #: 1262756

Dodecene (all isomers)

Page 4 of 8

Cargo Identificatio	n						(Condi	tions of Carriage	
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	Vapor F App'd (Y or N)	Recovery VCS Category	Special Requirements in 46 CFR 151 General and Mat'ls of	Insp.
Vinyl acetate	VAM		0	С	111	Α	Yes	2	.50-70(a), .50-81(a), (b)	G
Vinyl neodecanate	VND	13	0	Ε	111	Α	No	N/A	.50-70(a), .50-81(a), (b)	G
Vinyltoluene	VNT	13	0	D	111	Α	Yes	2	.50-70(a), .50-81, .56-1(a), (b), (c), (G
Subchapter D Cargoes Authorized for Vapor Contr	ol									
Acetone	ACT	18 ²	D	С		Α	Yes	1		
Acetophenone	ACP	18	D	Е		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	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	20 ²	D	С		Α	Yes	1		
Butyl benzyl phthalate	врн	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		Α	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		Α	Yes	1		
Decyl alcohol (all isomers)	DAX	20 ²	D	Е		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	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	E		Α	Yes	1		
Dioctyl phthalate	DOP	34	D	E		Α	Yes	1		
Dipentene	DPN	30	D	D		Α	Yes	1		
Diphenyl	DIL	32	D	D/E		Α	Yes	1		
Diphenyl, Diphenyl ether mixtures	DDO	33	D	E		Α	Yes	1		
Diphenyl ether	DPE	41	D	{E}		Α	Yes	1		
Dipropylene glycol	DPG	40	D	E		Α	Yes	1		
Distillates: Flashed feed stocks	DFF	33	D	E		Α	Yes	1		
Distillates: Straight run	DSR	33	D	E		Α	Yes	1		

D

DOZ

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

17-Mar-15



Certificate of Inspection

Cargo Authority Attachment

Vessel Name: KIRBY 28710

Official #: 1262756

Page 5 of 8

Shipyard: WEST GULF MARINE

Hull #: 250

Cargo Identificati	on							Condi	tions of Carriage	
Name	Chem Code DDB	Compat Group No	Sub Chapter D	Grade	Hull Type	Tank Group A	App'd (Y or N) Yes	VCS Category	Special Requirements in 46 CFR 151 General and Mat'ls of	Insp. Period
Dodecylbenzene, see Alkyl(C9+)benzenes	EEA	34	D		***************************************	A	Yes	1		
2-Ethoxyethyl acetate			D	E			Yes	1		
Ethoxy triglycol (crude)	ETG	40				A		1		
Ethyl acetate	ETA	34	D	С		A	Yes			
Ethyl acetoacetate	EAA	34	D	E		A	Yes	1	CANADA CONTRACTOR CONT	
Ethyl alcohol	EAL	20 2	D	С		A	Yes	1		
Ethylbenzene	ETB	32	D	С		A	Yes	1		
Ethyl butanol	EBT	20	D	D		A	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	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		11
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	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	D	С		Α	Yes	1		
Gasolines: Casinghead (natural)	GCS	33	D	A/C		Α	Yes	1		
Gasolines: Polymer	GPL	33	D	A/C		Α	Yes	1		
Gasolines: Straight run	GSR	33	D	A/C		Α	Yes	1		
Glycerine	GCR	20 ²	D	Е		Α	Yes	1		
Heptane (all isomers), see Alkanes (C6-C9) (all isomers)	HMX	31	D	С		Α	Yes	1		
Heptanoic acid	HEP	4	D	E		A	Yes	1		
Heptanol (all isomers)	HTX	20	D	D/E		A	Yes	1		
	HPX	30	D	С		Α	Yes	2		
Heptene (all isomers)	HPE	34	D	E		Α	Yes	1		
Heptyl acetate	HXS	31 ²	D	B/C		Α	Yes	1		
Hexane (all isomers), see Alkanes (C6-C9)	HXO	4	D	E			Yes	1		
Hexanoic acid	HXN	20	D	D		A	Yes	1		
Hexanol	HEX	30	D	C			Yes	2		
Hexene (all isomers)	HXG	20	D	E		A	Yes	1		
Hexylene glycol	IPH	18 ²	D	E		A	Yes	1	AN ARROW THE RESIDENCE OF THE PROPERTY OF THE	
Isophorone	JPF			E		A	Yes	1		
Jet fuel: JP-4		33	D					1		
Jet fuel: JP-5 (kerosene, heavy)	JPV	33	D	D		A	Yes	1		
Kerosene	KRS	33	D	D		Α	Yes			
Methyl acetate	MTT	34	D	D		A	Yes	1		
Methyl alcohol	MAL	20 2	D	С		A	Yes	1		
Methylamyl acetate	MAC	34	D	D		Α	Yes	1		
Methylamyl alcohol	MAA	20	D.	D		Α	Yes	1		

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



C1-1501124

17-Mar-15

Certificate of Inspection

Cargo Authority Attachment

Vessel Name: KIRBY 28710

Shipyard: WEST GULF

MARINE

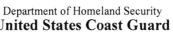
Official #: 1262756

Page 6 of 8

Hull #: 250

Cargo Identification						Conditions of Carriage					
	01						-	Recovery	0 10 050	1.	
Name Methyl amyl ketone	Chem Code MAK	Compat Group No	Sub Chapter D	Grade D	Hull Type	Tank Group A	App'd (Y or N) Yes	VCS Category	Special Requirements in 46 CFR 151 General and Mat'ls of	Insp. Period	
Methyl tert-butyl ether	MBE	41 2	D	С		Α	Yes	1			
Methyl butyl ketone	MBK	18	D	С		Α	Yes	1			
Methyl butyrate	MBU	34	D	С		Α	Yes	1			
Methyl ethyl ketone	MEK	18 ²	D	С		Α	Yes	1			
Methyl heptyl ketone	MHK	18	D	D		Α	Yes	1	A Windowski A was a second of the second of		
Methyl isobutyl ketone	MIK	18 ²	D	C		A	Yes	1			
Methyl naphthalene (molten)	MNA	32	D	E		A	Yes	1	and the second section of the section o		
	MNS	33	D	D		A	Yes	1			
Mineral spirits	MRE	30	D	D		Α	Yes	1			
Myrcene	NAG	33		#		A	Yes	1			
Naphtha: Heavy	PTN	33	D	#		A	Yes	1		~~~	
Naphtha: Petroleum	NSV	33	D	D		A	Yes	1			
Naphtha: Solvent	NSS	33	D	D		A	Yes	1			
Naphtha: Stoddard solvent			D	C		A	Yes	1			
Naphtha: Varnish makers and painters (75%)	NVM	33									
Nonane (all isomers), see Alkanes (C6-C9)	NAX	31	D	D		A	Yes	1			
Nonene (all isomers)	NON	30	D	D		Α	Yes	2			
Nonyl alcohol (all isomers)	NNS	20 2	D	E		A	Yes	1			
Nonyl phenol	NNP	21	D	E		A	Yes	11			
Nonyl phenol poly(4+)ethoxylates	NPE	40	D	E		A	Yes	1			
Octane (all isomers), see Alkanes (C6-C9)	OAX	31	D	С		A	Yes	1			
Octanoic acid (all isomers)	OAY	4	D	E		Α	Yes	1			
Octanol (all isomers)	OCX	20 ²	D	E		Α	Yes	1			
Octene (all isomers)	OTX	30	D	С		Α	Yes	2			
Oil, fuel: No. 2	OTW	33	D	D/E		Α	Yes	11			
Oil, fuel: No. 2-D	OTD	33	D	D		Α	Yes	1			
Oil, fuel: No. 4	OFR	33	D	D/E		Α	Yes	1			
Oil, fuel: No. 5	OFV	33	D	D/E		Α	Yes	1			
Oil, fuel: No. 6	OSX	33	D	Ε		Α	Yes	1			
Oil, misc: Crude	OIL	33	D	A/D		Α	Yes	1			
Oil, misc: Diesel	ODS	33	D	D/E		Α	Yes	1			
Oil, misc: Gas, high pour	OGP	33	D	E		Α	Yes	1			
Oil, misc: Lubricating	OLB	33	D	E		Α	Yes	1			
Oil, misc: Residual	ORL	33	D	E		Α	Yes	1			
Oil, misc: Turbine	ОТВ	33	D	E		Α	Yes	1			
Pentane (all isomers)	PTY	31	D	Α		Α	Yes	5			
Pentene (all isomers)	PTX	30	D	Α		Α	Yes	5			
n-Pentyl propionate	PPE	34	D	D		Α	Yes	1			
alpha-Pinene	PIO	30	D	D		Α	Yes	1			
beta-Pinene	PIP	30	D	D		Α	Yes	1			
Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether	PAG	40	D	Е		Α	Yes	1			
Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether acetate	PAF	34	D	E		Α	Yes	1			
Polybutene	PLB	30	D	E		Α	Yes	1	A STATE OF THE PARTY OF THE PAR		
Polypropylene glycol	PGC	40	D	E	* a - con ac ac (a) - 11813	Α	Yes	1			
iso-Propyl acetate	IAC	34		C		A	Yes	1			
n-Propyl acetate	PAT	34	D	C		Α	Yes	1			
iso-Propyl alcohol	IPA	20 2		C		A	Yes	1			
n-Propyl alcohol	PAL	20 ²	D	С		Α	Yes	1	Control of the Contro		





C1-1501124

17-Mar-15

Dated:



Certificate of Inspection

Cargo Authority Attachment

Vessel Name: KIRBY 28710

Shipyard: WEST GULF

MARINE

Official #: 1262756

Page 7 of 8

Cargo Identification						Conditions of Carriage					
							Vapor Recovery				
Name	Chem	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	App'd (Y or N)	VCS Category	Special Requirements in 46 CFR 151 General and Mat'ls of	Insp. Period	
Propylbenzene (all isomers)	PBY	32	D	D		Α	Yes	1			
iso-Propylcyclohexane	IPX	31	D	D		Α	Yes	1			
Propylene glycol	PPG	20 2	D	E		Α	Yes	1			
Propylene glycol methyl ether acetate	PGN	34	D	D		Α	Yes	1			
Propylene tetramer	PTT	30	D	D		Α	Yes	1			
Sulfolane	SFL	39	D	E		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	Е		Α	Yes	1			
Triethylene glycol	TEG	40	D	E		Α	Yes	1		77	
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	E		Α	Yes	1			
Xylenes (ortho-, meta-, para-)	XLX	32	D	D		Α	Yes	1			



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

Serial #: C1-1501124

17-Mar-15

Dated:



Certificate of Inspection

Cargo Authority Attachment

Vessel Name: KIRBY 28710

Official #: 1262756

Page 8 of 8

Shipyard: WEST GULF

Hull #: 250

Explanation of terms & symbols used in the Table:

Cargo Identification

Name Chem Code The proper shipping name as listed in 46 CFR Table 30.25-1, 46 CFR Table 151.05, and 46 CFR Part 153 Table 2. The three letter designation assigned to the cargo in the Chemical Hazards Response Information System (CHRIS) Manual Certain mixtures of cargoes may not have a CHRIS Code assigned.

Compatability Group No

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

Note 1 Note 2 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 part. For additional compatibility information, contact Commandant (CG-3PSO-3), U.S. Coast Guard, 2100 Second Street, SW, Washington, DC 20593-0001. Telephone

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

Subchapter Subchapter D Subchapter O

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

Note 4

Flammable liquid cargoes, as defined in 46 CFR 30-10.22.
Combustible liquid cargoes, as defined in 46 CFR 30-10.15.

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

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

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

Hull Type

NA

NA

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

Designed to carry products which require the maximum preventive measures to preclude the uncontrolled release of the cargo. See 46 CFR 151.10-1(b)(1). Designed to carry products which require significant preventive measures to preclude the uncontrolled release of cargo. See 46 CFR 151.10-1(b)(3). Designed to carry products of sufficient hazard to require a moderate degree of control. See 46 CFR 151.10-1(b)(4).

Not applicable to barges certificated under Subchapter D

Conditions of Carriage

Tank Group Vapor 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 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

Vapor Recovery Approved (Y or N) The vessel's tank group (as defined under the "46 CFR Tank Group Characteristics" listed on page 1) which is authorized for carriage of the named cargo.

Yes: The vessel's VCS has been reviewed and approved by the MSC to control vapors of the specified cargo No: The vessel's VCS has been reviewed and is not approved by the MSC to control vapors of the specified cargo.

VCS Category Category 1

The specified cargo's provisional classification for vapor control systems.

This requirement is in addition to the requirements of 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 arrester

Category 3

(Highly toxic) VCSs for these toxic cargoes cannot use a spill valve or rupture disk as the primary means to meet the overfill protection requirement of 46 CFR 39.20-9

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. 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

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