

Department of Homeland Security United States Coast Guard

Expiration Date:

08 Oct 2024

Certificate of Inspection

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

Vessel Name		Off	oal Number	MAC NAM	ter	Call Sign	Service	
KIRBY 2773	В	12	245361				Tank E	Barge
Haiving Port	_		Hutt Matenal	Hora	scower	Propulsion		
HOUMA, LA			Steel	110.20		rispasion		
UNITED STA	ATES							
Place Buit			Delivery Date	Keel Laid Date	Gross Tons	Net Torra	DWT	Lengan
MADISONVI	LLE, LA		•	05Aug2014	R-1619	R-1619		R-297 6
UNITED STA	ATES				ŀ).		ю
Owner				Operate				
	ND MARINE LP DRIVE SUITE 1				3Y INLAND I 30 Market St	MARINE, LP reel		
HOUSTON,	TX 77007			Char	neiview, TX	77530		
UNITED STA	ATES			UNI	ED STATE	S	•	
	nust be manned leboatmen, 0 C						hich there m	ust be
0 Masters	(Licensed Mate	s O Chie	f Engineers	00	lers		
0 Chief Male	5 () First Class Pık	xs OFirst	Assistant Enginee	rs			
0 Second Ma		Radio Officers	0 Seco	and Assistant Engl	neers			
0 Third Mate		O Able Seamen		I Assistant Engine	ers			
		Ordinary Seam		nsed Engineers				2
0 Mate First) Deckhands anv () Passer		ified Member Engl		ns in addition to	n crew, and i	no Others, Total
Persons allov		airy 0 1 23001	190,5,000					
Route Perm	nitted And Cond	ditions Of Op	peration:					•
Lakes,	Bays, and S	ounds pl	us Limite	d Coastwis	6		,	
Also, in fai Florida.	ir weather only	y, not more	than twelve	e (12) miles :	from shore	between St. H	darks and C	arrabelle.
	has been grant	ed a fresh Walez more	water servi	othe in any 12	month per	icd, the vest	sel must be	inspected using
vessel is or	ntervals per	16 CFR 31.10	- than u mor -21(a)(1) a	end the cogni:	ant OCMI n	otified in w	fiting Am s	oon as this
vesmel is op salt water i change in st	ntervals per datus occurs.	16 CFR 31.10)-21(a)(1) a	end the cogni:	eant OCMI n			oon as this nspection Program
vessel is opsalt water i change in st	ntervals per datus occurs.	16 GFR 31.10 ipating In t	0-21(a)(1) a	end the cognic	eant OCMI n	ank Barge St	reamlined I	1
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vessel is opsalt water is change in st. This tank ba ***SEE NEX With this Insp. Inspection, M.	ontervals per catus occurs. If ge 1s particis OT PAGE FOR ection for Certificatine Safety Unitules and regular	ipating In t ADDITIONA cation having t Port Arthur	D-21(a) (1) a the Eighth C AL CERTIFIC been complicertified the seed thereund	End the cogni- CORST GUASE DE CATE INFORI eled at Port Ar vessel, in all re- er.	ASTRICT TO	ank Barge St. NITED STATES conformity with	reamlined I	nspection Program in Charge, Marine ble vessel inspection
vessel is opsalt water is change in st. This tank ba ***SEE NEX With this Insp. Inspection, M.	ontervals per catus occurs. If ge 1s particis OT PAGE FOR ection for Certificatine Safety Unitules and regular	ipating In t ADDITIONA cation having t Port Arthur tions prescrib	ne Eighth C AL CERTIFIC been comple certifled the seed thereund	COAST GUARD DECATE INFORMED AT PORT AT PORT OF THE PO	ASTRICT'S TOWNS TOWNS TOWNS TOWNS TO SERVICE TO SERVICE TO SERVICE TOWNS TO THE TOWN THE TOWNS TOWN THE TOWN TH	NITED STATES conformity with	s, the Officer	in Charge, Marine
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vessel is opsalt water in change in stank batter than tank batter than tan	ontervals per catus occurs. If ye is particular particular per catus occurs. If ye is particular particular particular per catus occurs. Annual/Periodatus occurs.	ADDITIONA cation having t Port Arthur tions prescrib odic/Re-Inspe	the Eighth Control of the Control of	COAST GUARD DECATE INFORMATE OF A PORT OF A PO	ATION*** thur, TX, Unspects, Is in J.J.	ITED STATES conformity with a lissued by ANDREW, CD	s, ind Office the upplication, USCG, E	in Charge, Marine ble vessel inspection by direction



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

Certification Date: 08 Oct 2019 **Expiration Date:** 08 Oct 2024

Certificate of Inspection

Vessel Name: KIRBY 27738

(TBSIP). Inspection activities aboard this barge shall be conducted per its Tank Barge Action Plan (TAP). Inspection issues concerning this barge should be directed to OCMI Houston-Galveston

---Hull Exams---

Exam Type

Next Exam

Last Exam

Prior Exam

DryDock

17Sep2024

17Sep2014

Internal Structure

30Sep2024

07Oct2019

17Sep2014

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

Authorization:

Flammable/Combustible Liquids and Specified Hazardous Cargoes

Total Capacity

Units

Highest Grade Type Part151 Regulated Part153 Regulated Part154 Regulated

28575

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	865	13.66
2 P/S	822	13.66
3 P/S	740	13.66
Slop C		

Loading Constraints - Stability

Hull Type	Maximum Load (short tons)	Maximum Draft (ft/in)	Max Density (lbs/gal)	Route Description
Ш	3751	10ft 0in	13.66	Lakes, Bays, and Sounds/ LC
Ш	4623	11ft 9in	13.66	Lakes, Bays, and Sounds/ LC
H	3751	10ft 0in	13.66	Rivers
III	4623	11ft 9in	13.66	Rivers

Conditions Of Carriage

Only those specified hazardous cargoes named in the vessel's Cargo Authority Attachment (CAA), serial # C1-1400007, dated 10Jan2014, may be carried. The specified hazardous cargoes may be carried only in the tanks indicated.

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

When the vessel is carrying cargoes containing 0.5% or greater benzene by volume, the person in charge is responsible for ensuring the provisions of 46 CFR 197, Subpart C, are applied.

The Thermal Fluid Heater may only be operated when carrying Grade "E" cargoes.

Vapor Control Authorization

Per 46 CFR 39, excluding Part 39.40, this vessel's vapor control system (VCS) has been inspected to the plans approved by Marine Safety Center letter serial # C1-1400007, dated 10Jan2014, and found acceptable for collection of bulk liquid cargo vapors annotated with "Yes" in the CAA's VCS column.



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

Per 46 CFR 151.10(c)(2), the maximum tank weights listed above reflect uniform (within 5%) loading at the deepest draft allowed. When carrying subchapter "O" cargoes at shallower drafts, the barge should always be loaded uniformly.

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.

--- Inspection Status ---

Fuel Tanks

Internal Examinations

Tank ID Previous Last Next AFT - 17Sep2014 -

Cargo Tanks

	Internal Exam	ĺ		External Exar	n	
Tank Id	Previous	Last	Next	Previous	Last	Next
1 P/S	-	17Sep2014	17Sep2024	-	-	-
2 P/S	-	17Sep2014	17Sep2024	-	-	-
3 P/S	-	17Sep2014	17Sep2024	-	-	-
Slop C	-	17Sep2014	17Sep2024	-	-	-
			Hydro Test			
Tank ld	Safety Valves	;	Previous	Last	Next	
1 P/S	-		-	-	- ,	
2 P/S	-		-	-	-	
3 P/S	-		-	-	-	
Slop C	-		-	-	-	

--- 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

3

40-B

END

^{*}Stability and Trim*





C1-1400007 Dated:

10-Jan-14

Certificate of Inspection

Cargo Authority Attachment

Vessel Name: Kirby 27738 Official #: 1245361

Shipyard: Trinity Madisonville

Hull #: 2215-12

Tank Group Information	Cargo I	dentificati	ion		Cargo	1	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	Temp Cont
A #1P/S, #2 P/S, #3 P/S	13.7	Atmos.	Elev	H	1ii 2ii	Integral Gravity	PV	Closed	11	G-1	NR	NA	Portable	40-1(f)(1), .50-60, .50-70(a), .50-70(b), .50-73, .50-81(a), .50-81(b),	55-1(b), (c), (e), (f), (j), 56-1(a), (b), (c), (d), (e), (f), (g),	NR	Yes

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 Identificatio	n					Conditions of Carriage						
							Vapor R	ecovery				
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	Ш	Α	Yes	3	No	G		
Acrylonitrile	ACN	15 ²	0	С	Ш	Α	Yes	4	.50-70(a), .55-1(e)	G		
Adiponitrile	ADN	37	0	E	Ш	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	Ш	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	II	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	Ш	Α	Yes	1	.50-60	G		
Butyl acrylate (all isomers)	BAR	14	0	D	Ш	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	111	Α	Yes	1	.55-1(h)	G		
Camphor oil (light)	СРО	18	0	D	П	Α	No	N/A	No	G		
Carbon tetrachloride	CBT	36	0	NA	10	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, .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	Ш	Α	Yes	1	No	G		
Chloroform	CRF	36	0	NA	111	Α	Yes	3	No	G		
Coal tar naphtha solvent	NCT	33	0	D	Ш	Α	Yes	1	.50-73	G		
Coal tar pitch (molten)	CTP	33	0	E	111	Α	No	N/A	.50-73	G		
Creosote	CCW	21 ²	0	E	Ш	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	Ш	Α	No	N/A	.50-73, .55-1(b)	G		
Cresylic acid tar	CRX		0	E	Ш	Α	Yes	1	.55-1(f)	G		
Crotonaldehyde	CTA	19 ²	0	С	11	Α	Yes	4	.55-1(h)	G		
Crude hydrocarbon feedstock (containing Butyraldehydes and Ethylpropyl acrolein)	CHG		0	С	111	Α	No	N/A	No	G		
Cyclohexanone	ССН	18	0	D	111	Α	Yes	1	.56-1(a), (b)	G		
Cyclohexanone, Cyclohexanol mixture	CYX	18 ²	0	Ε	Ш	Α	Yes	1	.56-1 (b)	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.



Serial #: Dated: C1-1400007 10-Jan-14

Certificate of Inspection

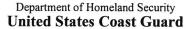
Cargo Authority Attachment

Vessel Name: **Kirby 27738**Official #: 1245361

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Shipyard: Trinity Madisonville

Cargo Identification	on					Conditions of Carriage					
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	App'd (Y or N)	vcs	Special Requirements in 46 CFR 151 General and Mat'ls of	Insp. Period	
Cyclohexylamine	CHA	7	0	D	III	Α	Yes	1	.56-1(a), (b), (c), (g)	G	
Cyclopentadiene, Styrene, Benzene mixture	CSB	30	0	D	III	Α	Yes	1	.50-60, .56-1(b)	G	
iso-Decyl acrylate	IAI	14	0	Е	III	Α	Yes	2	.50-70(a), .50-81(a), (b), .55-1(c)	G	
Dichlorobenzene (all isomers)	DBX	36	0	E	III	Α	Yes	3	.56-1(a), (b)	G	
1,1-Dichloroethane	DCH	36	0	С	III	Α	Yes	1	No	G	
2,2'-Dichloroethyl ether	DEE	41	0	D	11	Α	Yes	1	.55-1(f)	G	
Dichloromethane	DCM	36	0	NA	111	Α	Yes	5	No	G	
2,4-Dichlorophenoxyacetic acid, diethanolamine salt solution	DDE	43	0	E	III	Α	No	N/A	.56-1(a), (b), (c), (g)	G	
2,4-Dichlorophenoxyacetic acid, dimethylamine salt solution	DAD	0 1,2	0	Α	III	A	No	N/A	.56-1(a), (b), (c), (g)	G	
2,4-Dichlorophenoxyacetic acid, triisopropanolamine salt solution	DTI	43 ²	0	E		A	No	N/A	.56-1(a), (b), (c), (g)	G	
1,1-Dichloropropane	DPB	36	0	C	III	A	Yes	3	No	G	
1,2-Dichloropropane	DPP	36	0	С	III	Α	Yes	3	No	G	
1,3-Dichloropropane	DPC	36	0		111	A	Yes	3	No		
1,3-Dichloropropene	DPU	15	0	D	11	A	Yes	4	No	G	
Dichloropropene, Dichloropropane mixtures	DMX	15	0	C		A	Yes	1	No		
Diethanolamine	DEA	8	0	E	<u></u> -	A	Yes	1	.55-1(c)	G	
Diethylamine	DEN	7	0		111		Yes	3	.55-1(c)	G	
Diethylenetriamine	DET	7 2	0	E		A	Yes	1	.55-1(c)	- G	
Diisobutylamine	DBU	7	0	D		A	Yes	3	.55-1(c)	G	
Diisopropanolamine	DIP	8	0	E	111		Yes	1	.55-1(c)	G	
Diisopropylamine	DIA	7	0	C	<u>'''</u>	A		3	.55-1(c)	G	
N,N-Dimethylacetamide	DAC	10	0		111		Yes		.56-1(b)		
Dimethylethanolamine	DMB	- 8	0		111	Α	Yes	3	.56-1(b), (c)	G	
Dimethylformamide	DMF	10	0	D		Α	Yes	1	.55-1(e)	G	
Di-n-propylamine		7				A	Yes	1	.55-1(c)		
	DNA		0	С	<u> </u>	A	Yes	3	.56-1(b)	G	
Dodecyldimethylamine, Tetradecyldimethylamine mixture	DOT	7	0	E		A	No	N/A		G	
Dodecyl diphenyl ether disulfonate solution	DOS	43	0	#		A	No	N/A	No	G	
EE Glycol Ether Mixture	EEG	40	0	D	Ш	A	No	N/A	No	G	
Ethanolamine	MEA	8	0	Ε		Α .	Yes	1	.55-1(c)	G	
Ethyl acrylate	EAC	14	0	C	<u> </u>	A	Yes	2	.50-70(a), .50-81(a), (b)	G	
Ethylamine solution (72% or less)	EAN	7	0	A	II	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	111	A	Yes	1	.55-1(b)	G	
Ethylene cyanohydrin	ETC	20	0	E		Α	Yes	1	No	G	
Ethylenediamine	EDA	7 ²	0	D		Α	Yes	1	.55-1(c)	G	
Ethylene dichloride	EDC	36 ²	0	С	111	Α	Yes	1	No	G	
Ethylene glycol hexyl ether	EGH	40	0	E	111	Α	No	N/A	No	G	
Ethylene glycol monoalkyl ethers	EGC	40	0	D/E	111	Α	Yes	1	No	G	
Ethylene glycol propyl ether	EGP	40	0	E	111	A	Yes	1	No	G	
2-Ethylhexyl acrylate	EAI	14	0	E	111	Α	Yes	2	.50-70(a), .50-81(a), (b)	G	
Ethyl methacrylate	ETM	14	0	D/E	Ш	Α	Yes	2	.50-70(a)	G	
2-Ethyl-3-propylacrolein	EPA	19 ²	0	E	111	Α	Yes	1	No	G	
Formaldehyde solution (37% to 50%)	FMS	19 ²	0	D/E	Ш	Α	Yes	1	.55-1(h)	G	
Furfural	FFA	19	0	D	Ш	Α	Yes	1	.55-1(h)	G	
Glutaraldehyde solution (50% or less)	GTA	19	0	NA	Ш	Α	No	N/A	No	G	
Hexamethylenediamine solution	HMC	7	0	E	Ш	Α	Yes	1	.55-1(c)	G	
Hexamethyleneimine	НМІ	7	0	С		Α	Yes	1	.56-1(b), (c)	G	
Hydrocarbon 5-9	HFN		0	С	111	Α	Yes	1	.50-70(a), .50-81(a), (b)	G	





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Cargo Authority Attachment

Vessel Name: **Kirby 27738**Official #: 1245361

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Shipyard: Trinity Madisonville

Cargo Identification	1					Conditions of Carriage						
							Vapor F	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	IPR	30	0	Α	Ш	Α	Yes	7	.50-70(a), .50-81(a), (b)	G		
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	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	Ш	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	MMN	1 14	0	С	Ш	Α	Yes	2	.50-70(a), .50-81(a), (b)	G		
2-Methylpyridine	MPR	9	0	D	III	Α	Yes	3	.55-1(c)	G		
alpha-Methylstyrene	MSR	30	0	D	III	A	Yes	2	.50-70(a), .50-81(a), (b)	G		
Morpholine	MPL	7 2	0	D	III	Α	Yes	1	.55-1(c)	G		
Naphthalene (molten)	NTM	32	0	C	111	A	Yes	1	No	G		
Nitroethane	NTE	42	0	D	11	A	No	N/A	.50-81, .56-1(b)	G		
1- or 2-Nitropropane	NPM	42	0	D	<u>''</u>	A		1	.50-81	G		
1,3-Pentadiene	PDE	30	0		111		Yes	7	.50-70(a), .50-81	G		
				A		A	Yes		No	G		
Perchloroethylene Ditte l'acceptation (control)	PER	36	0	NA		A	No	N/A		G		
Phthalic anhydride (molten)	PAN	11	0	E		A .	Yes	1	No			
Polyethylene polyamines	PEB	7 2	0	E	111	A	Yes	1	.55-1(e)	G		
iso-Propanolamine	MPA	8	0	Ε	111	Α	Yes	1	.55-1(c)	G		
Propanolamine (iso-, n-)	PAX	8	0	E	111	Α	Yes	1	.56-1(b), (c)	G		
iso-Propylamine	IPP	7	0	Α	11	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		Ш	Α	No	N/A	.50-73, .55-1(j)	G		
Sodium aluminate solution (45% or less)	SAU	5	0	NA	Ш	Α	No	N/A	.50-73, .56-1(a), (b), (c)	G		
Sodium chlorate solution (50% or less)	SDD	0 1,2	0	NA	Ш	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	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	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	11	Α	No	N/A	.50-73, .55-1(b)	G		
Styrene (crude)	STX	46.4	0	D	III	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	III	Α	No	N/A	No	G		
Tetraethylenepentamine	TTP	7	0	E	111	A	Yes	1	.55-1(c)	G		
Tetrahydrofuran	THF	41	0	C		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	E	111	Α	Yes	1	No	G		
1,1,2-Trichloroethane	TCM	36	0	NA	III	A	Yes	1	.50-73, .56-1(a)	G		
	TCL	36 ²	0	NA	 	A	Yes	1	No	G		
Trichloroethylene	TCN	36		E		A	Yes	3	.50-73, .56-1(a)	G		
1,2,3-Trichloropropane		8 ²	0	E					.55-1(b)	G		
Triethanolamine	TEA				- 111	Α	Yes	1	.55-1(e)	G		
Triethylamine	TEN	7	0	С	- 11	Α	Yes	3	.55-1(b)	G		
Triethylenetetramine	TET	7 2	0	E	<u> </u>	Α	Yes	1		G		
Triphenylborane (10% or less), caustic soda solution	TPB	5	0	NA		A	No	N/A	.56-1(a), (b), (c)			
Trisodium phosphate solution	TSP	5	0	NA	- 111	Α	No	N/A	.50-73, .56-1(a), (c).	G		
Urea, Ammonium nitrate solution (containing more than 2% NH3)	UAS	6	0	NA	111	Α	No	N/A	.56-1(b)	G		



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Cargo Authority Attachment

Vessel Name: Kirby 27738 Official #: 1245361

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Shipyard: Trinity Madisonville

Cargo Identificatio	n						(Condi	tions of Carriage	
		_						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
Vanillin black liquor (free alkali content, 3% or more).	VBL	5	0	NA	III	Α	No	N/A	.50-73, .56-1(a), (c), (g)	G
Vinyl acetate	VAM	13	0	С	Ш	Α	Yes	2	.50-70(a), .50-81(a), (b)	G
Vinyl neodecanate	VND	13	0	E	Ш	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	E		A	Yes	_ <u>'</u>		
Alcohol(C12-C16) poly(1-6)ethoxylates	APU	20		E		A	Yes	1		
Alcohol(C6-C17)(secondary) poly(7-12)ethoxylates	AEB	20	D	E		A		1		
Amyl acetate (all isomers)	AEC	34	D	D		A	Yes	1		
Amyl alcohol (iso-, n-, sec-, primary)	AAI	20	D	D		A	Yes			
Benzyl alcohol	BAL	21	D	E		A		1		
Brake fluid base mixtures (containing Poly(2-8)alkylene(C2-C3)	BFX	20	D	E			Yes	15		
glycols, Polyalkylene(C2-C10) glycol monoalkyl(C1-C4) ethers, and their borate esters)	DLY	20	D	_		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		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	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	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	The second secon	
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	Е		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		



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Certificate of Inspection

Cargo Authority Attachment

Vessel Name: Kirby 27738 Official #: 1245361

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Shipyard: Trinity Madisonville

Cargo Identification	on					Conditions of Carriage						
							Vapor I	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		
Dodecene (all isomers)	DOZ	30	D	D		Α	Yes	1				
Dodecylbenzene, see Alkyl(C9+)benzenes	DDB	32	D	E		Α	Yes	1				
2-Ethoxyethyl acetate	EEA	34	D	D		Α	Yes	1				
Ethoxy triglycol (crude)	ETG	40	D	E		Α	Yes	1				
Ethyl acetate	ETA	34	D	С		Α	Yes	1				
Ethyl acetoacetate	EAA	34	D	Е		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		A	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		A	Yes	1				
Ethylene glycol phenyl ether	EPE	40	D	E		Α	Yes	1				
Ethyl-3-ethoxypropionate	EEP	34				Α	Yes	1				
2-Ethylhexanol	EHX	20	D	 E		Α	Yes	1				
Ethyl propionate	EPR	34	D	C		A	Yes	1				
Ethyl toluene	ETE	32		D		Α.	Yes	1				
Formamide	FAM	10	D	E		A	Yes	1				
Furfuryl alcohol	FAL	20 2	D	E		A	Yes	1				
	GAK	33	D	A/C		A		1				
Gasoline blending stocks: Alkylates	GRF						Yes					
Gasoline blending stocks: Reformates		33	D	A/C		A	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		A	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	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	Secretary to the second			
Hexanoic acid	HXO	4	D	E		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		Α	Yes	1				
Isophorone	IPH	18 ²	D	E		Α	Yes	1				
Jet fuel: JP-4	JPF	33	D	Е		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				

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



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Certificate of Inspection

Cargo Authority Attachment

Vessel Name: Kirby 27738 Official #: 1245361

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Shipyard: Trinity Madisonville

Cargo Identifica	tion						-	Condi	tions of Carriage	
				T				Recovery		T
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
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		
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		
Methyl isobutyl ketone	MIK	18 ²	D	С		Α	Yes	1		
Methyl naphthalene (molten)	MNA	32	D	E		Α	Yes	1		
Mineral spirits	MNS	33	D	D		Α	Yes	1		
Myrcene	MRE	30	D	D		Α	Yes	1		
Naphtha: Heavy	NAG	33	D	#		Α	Yes	1		
Naphtha: Petroleum	PTN	33	D	#		Α	Yes	1		
Naphtha: Solvent	NSV	33	D	D		Α	Yes	1		
Naphtha: Stoddard solvent	NSS	33	D	D		A	Yes	1		
Naphtha: Varnish makers and painters (75%)	NVM	33	D	С		A	Yes	1	A STATE OF THE STA	
Nonane (all isomers), see Alkanes (C6-C9)	NAX	31	D	D		A	Yes	1		
Nonene (all isomers)	NON	30	D	D		A	Yes	2		
Nonyl alcohol (all isomers)	NNS	20 ²	D	E		A	Yes	1		
Nonyl phenol	NNP	21		 E		A	Yes	1		
Nonyl phenol poly(4+)ethoxylates	NPE	40	D	E		Α	Yes	<u>'</u>		
Octane (all isomers), see Alkanes (C6-C9)	OAX	31	D	C		A	Yes	1		
Octanoic acid (all isomers)	OAY	4	D	E		A	Yes	1		
Octanol (all isomers)	OCX	20 ²	D	E		A	Yes	1		
Octene (all isomers)	OTX	30	D	C		Α	Yes	2		
Oil, fuel: No. 2	OTW	33	D	D/E		Α	Yes	1		
Oil, fuel: No. 2-D	OTD	33	D	D		A	Yes	1		
Oil, fuel: No. 4	OFR	33	D	D/E			Yes	1		
Oil, fuel: No. 5	OFV	33	D	D/E		A	Yes			
Oil, fuel: No. 6	OSX	33		E		A	Yes	1		
Oil, misc: Crude	OIL	33	D	C/D			Yes	1		
Oil, misc: Diesel	ODS	33	D	D/E		A	Yes	1		
Oil, misc: Gas, high pour	OGP	33	D	E		Α	Yes	1		70
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							
Pentene (all isomers)	PTX	30	D	A A		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				1		
Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether	PAG	40	D	E		A	Yes	1		
	PAG	34	D	E						
Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether acetate	PLB	30	D	E		A	Yes	1		
Polyptone Polyptone glycol	PLB	40	D	E		A	Yes	1		
Polypropylene glycol	IAC	34	D	C			Yes	1		
iso-Propyl acetate	PAT	34	D	C		A				
n-Propyl acetate	IPA	20 ²	D	С		Α	Yes	1		
iso-Propyl alcohol	IPA	20 -	U	<u> </u>		Α	Yes	1		



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Certificate of Inspection

Cargo Authority Attachment

Vessel Name: **Kirby 27738**Official #: 1245361

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Shipyard: Trinity Madisonville

Cargo Identific	ation							Condi	tions 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
n-Propyl alcohol	PAL	20 ²	D	С		Α	Yes	1		
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	Е		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	Е		Α	Yes	1		-
Triethyl phosphate	TPS	34	D	E		Α	Yes	1		
Trimethylbenzene (all isomers)	TRE	32	D	{D}		Α	Yes	1		
Trixylenyl phosphate	TRP	34	D	E		Α	Yes	1		
Undecene	UDC	30	D	D/E		Α	Yes	1		
1-Undecyl alcohol	UND	20	D	E		Α	Yes	1		
Xylenes (ortho-, meta-, para-)	XLX	32	D	D		Α	Yes	1		



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

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Certificate of Inspection

Cargo Authority Attachment

Vessel Name: Kirby 27738

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Shipyard: Trinity Madison

Hull #: 2215-12

Explanation of terms & symbols used in the Table:

Cargo Identification

Name

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

Chem Code none

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 1811 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

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

Note 2

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

Subchapter 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 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.

NA

Hull Type

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

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

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

Not applicable to barges certificated under Subchapter D

Conditions of Carriage

Tank Group Vapor 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

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 Category 1

The specified cargo's provisional classification for vapor control systems

(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

(Polymerizes) Polymerization and residue build-up of these cargoes can adversely affect the vessel by fouling safety components 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

Category 2

(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. his requirement is in addition to the requirements of Category 1

Category 4

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

Category 5

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

Category 6 Category 7

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

none

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