

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

Certification Date: 05 Sep 2019 Expiration Date: 05 Sep 2024

Certificate of Inspection

For ships on international voyages this cartificate fulfills the requirements of SOLAS 74 as amen 1ed, regulation V/14, for a SAFE MANNING DOCUMENT.

Vessel Name	Official Number	or B	O Number	Call Sign	Service	
KIRBY 28104	1219322			998948 5995 AU	Tank B	Rame
	1213022				Talk	baige
					n waste traces	
Hailing Port	44.41	Antodol		O		
WILMINGTON, DE		Material	Horsepower	Propulsion		
	Ste	el		02		
UNITED STATES			1_			
Place Built	Deliment	Date Kaalisid D		N-1 T		T
ASHLAND CITY, TN	Delivery I	Date Keel Laid D	ate Gross Tons R-1632	Net Tons R-1632	DWT	Length R-309.0
	23Jun	2009 22Apr20	009	K-1032		i-0 '
UNITED STATES			• *	•	1.0	
						e
Owner			Operator		8	
KIRBY INLAND MARINE L	P		KIRBY INLAND	MARINE, LP		
55 WAUGH DR STE 1000			18350 MARKET			
HOUSTON, TX 77007 UNITED STATES			CHANNELVIEW			
OMILESTATES			UNITED STATE	:8		
This vessel must be manne	d with the following lic	ensed and unlic	ensed Personne	I Included in v	which there m	uct ho
0 Certified Lifeboatmen, 0	Certified Tankermen,	0 HSC Type Ra	ting, and 0 GMD	SS Operators.	WINCH LINGTO III	ust be
0 Masters	0 Licensed Mates	0 Chief Engineers	0.0)ilers		
0 Chief Mates	0 First Class Pilots	0 First Assistant E	ngineers			
0 Second Mates ·	0 Radio Officers	0 Second Assistan	t Engineers			
0 Third Mates	0 Able Seamen	0 Third Assistant E	ingineers			
0 Master First Class Pilot	0 Ordinary Seamen	0 Licensed Engine	ers			
0 Mate First Class Pilots		0 Qualified Membe				
In addition, this vessel may Persons allowed: 0	carry 0 Passengers, 0	Other Persons	in crew, 0 Perso	ons in addition t	to crew, and r	no Others. Total
Route Permitted And Co	nditions Of Operatio	n:				
Lakes, Bays, and	Sounds plus Lie	mited Coast	wise			
Also, in fair weather on Florida.	ly, not more than t	welve (12) mi	les from shore	between St.	Marks and Ca	rrabelle,
8/15/00/07/02/0 EU-C-07/02/0						
This vessel has been gra If this vessel has been	nted fresh water hu	ıll examinatio	n intervals in	accordance w	ith 46 CFR	31.10-21(a)(2).
examined using salt wate	r intervals and the	cognizant OC	MI notified in	ny 12 month p writing as s	eriod, the voon as this	ressel must be change occurs.
This tank barge is parti (TBSIP). Inspection acti	cipating in the Eig	hth Coast Gua	rd District's	Tank Barge St	reamlined In	spection Program
	14					
***SEE NEXT PAGE FO						
With this Inspection for Cert Inspection, Marine Safety U	nit Port Arthur certifie	d the vessel, in	ort Arthur, TX, Uf all respects, is in	NITED STATE conformity will	S, the Officer h the applicat	in Charge, Marine ble vessel inspection
laws and the rules and regu	<u>lations prescribed the:</u> riodic/Re-Inspection	reunaer.	This was	1. 1. 2. 14. 15	11 m	
			This certificat		Clark	COR
Date Zone		ignature	J.J.	ANDREW, C	DR, USCG, B	y direction
7-22-20 HOU	A BEN H	MUY PAUX	Officer in Charge, M		3/118	4
6.16.22 HOUSTON	7 1115	FRANCIS		Marine Safe	ty Unit Port A	rthur
10-4-23 Rewnont +	A Dillon	BETTY	Inspection Zone		"XXD"	1

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

OMB N. SHEET



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

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Vessel Name: KIRBY 28104

Plan (TAP). Inspection issues concerning this barge should be directed to OCMI Houston-Galveston, TX.

---Hull Exams---

Exam Type

Next Exam

Last Exam

Prior Exam

DryDock

30Jun2029

05Sep2019

23Jun2009

Internal Structure

31Jul2024

05Sep2019

28Jul2014

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

Authorization:

FLAMMABLE/COMBUSTIBLE LIQUIDS AND SPECIFIED HAZARDOUS CARGOES

Total Capacity

Highest Grade Type Part151 Regulated Part153 Regulated

Part154 Regulated

28500

Units Barrels

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	838	8.74
2 P/S	843	8.74
3 P/S	777	8.74

Loading Constraints - Stability

Hull Type	Maximum Load (short tons)	Maximum Draft (ft/in)	Max Density (lbs/gal)	Route Description
11	3804	10ft 0in	13.60	R
11	3804	10ft 0in	13.60	LBS
III	4680	11ft 9in	13.60	R
III	4680	11ft 9in	13.60	LBS

Conditions Of Carriage

Only those cargoes named in the vessel's Cargo Authority Attachment (CAA), serial #C1-0901515, dated 15MAY09, may be carried and then 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 in the vessel's CAA.

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.

Vapor Control Authorization

In accordance with 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 #C2-0902658, dated 15SEP09, and found acceptable for collection of bulk liquid cargo vapors annotated with "Yes" in the CAA's VCS column.

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.



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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 13.60 lbs/gal, may be carried as slack loads, but shall not exceed the tank weight limits as listed above.

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.

--- Inspection Status ---

Cargo Tanks

	Internal Exam			External Exam	ſ	
Tank Id	Previous	Last	Next	Previous	Last	Next
1 P/S	23Jun2009	05Sep2019	30Jun2029	-	-	-
2 P/S	23Jun2009	05Sep2019	30Jun2029	-	-	-
3 P/S	23Jun2009	05Sep2019	30Jun2029	-	-	-
			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

B-II

END

^{*}Stability and Trim*



Serial #: C1-0901515 Dated: 15-May-09

Certificate of Inspection

Cargo Authority Attachment

Vessel Name: KIRBY 28104

Shipyard: TRINITY ASHLAND

CITY

Hull #: 4608

Official #: 1219322

Tank Group Information	Cargo I	dentificati	ion		Cargo	1	Tanks		Carg Tran		Enviror Control		Fire	Special Require	ements		
Tnk Grp Tanks in Group	Density	Press.	Temp.		Seg Tank	Туре	Vent	Gauge	Pipe Class	Cont	Tanks	Handling Space	Protection Provided	General	Materials of Construction	Elec Haz	Tem Cont
A #1P/S, #2P/S, #3P/S	13.6	Atmos.	Amb.	II	1ii 2ii	Integral Gravity	PV	Closed	, II	G-1	NR	NA	Portable	.50-60, .50-70(a), .50-70(b), .50-73, .50-81(a), .50- 81(b),	55-1(b), (c), (e), (f), (h), (j), 56-1(a), (b), (c), (d), (e), (f), (g),	NR	No

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

 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.

List of Authorized Cargoes

Cargo Identificatio	Conditions of Carriage									
							Vapor R			
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	11	Α	Yes	4	.50-70(a), .55-1(e)	G
Adiponitrile	ADN	37	0	E	11	Α	Yes	1	No	G
Alkyl(C7-C9) nitrates	AKN	34 2	0	NA	III	Α	No	N/A	.50-81, .50-86	G
Aminoethylethanolamine	AEE	8	0	E	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	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	III	Α	Yes	1	.50-60	G
Benzene or hydrocarbon mixtures (having 10% Benzene or more)	ВНВ	32 2	0	С	III	Α	Yes	1	.50-60	G
Benzene or hydrocarbon mixtures (containing Acetylene and 10% Benzene or more)	ВНА	32 2	0	С	Ш	Α	Yes	1	.50-60, .56-1(b), (d), (f), (g)	G
Benzene, Toluene, Xylene mixtures (10% Benzene or more)	BTX	32	0	B/C	Ш	Α	Yes	1	.50-60	G
Butyl acrylate (all isomers)	BAR	14	0	D	Ш	Α	Yes	2	.50-70(a), .50-81(a), (b)	G
Butyl methacrylate	ВМН	14	0	D	Ш	Α	Yes	2	.50-70(a), .50-81(a), (b)	G
Butyraldehyde (all isomers)	BAE	19	0	С	III	Α	Yes	1	.55-1(h)	G
Camphor oil (light)	CPO	18	0	D	П	Α	No	N/A	No	G
Carbon tetrachloride	CBT	36	0	NA	III	Α	No	N/A	No	G
Caustic potash solution	CPS	5 ²	0	NA	III	Α	No	N/A	.50-73, .55-1(j)	G
Caustic soda solution	CSS	5 ²	0	NA	Ш	Α	No	N/A	.50-73, .55-1(j)	G
Chemical Oil (refined, containing phenolics)	COD	21	0	Е	II	A	No	N/A	.50-73	G
Chlorobenzene	CRB	36	0	D	III	Α	Yes	1	No	G
Chloroform	CRF	36	0	NA	111	Α	Yes	3	No	G
Coal tar naphtha solvent	NCT	33	0	D	Ш	Α	Yes	1	.50-73	G
Creosote	CCW	21 2	0	E	Ш	Α	Yes	1	No	G
Cresols (all isomers)	CRS	21	0	E	Ш	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	111	Α	Yes	1	.55-1(f)	G
Crotonaldehyde	CTA	19 ²	0	С	П	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
Cyclohexanone	ССН	18	0	D	III	Α	Yes	1	.56-1(a), (b)	G
Cyclohexanone, Cyclohexanol mixture	CYX	18 ²	0	E	III	Α	Yes	1	.56-1 (b)	G
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



C1-0901515 Dated:

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Cargo Identification								Conditions of Carriage							
							-	Recovery							
Name iso-Decyl acrylate	Chem Code IAI	Compat Group No 14	Sub Chapter O	Grade E	Hull Type III	Tank Group A	App'd (Y or N) Yes	VCS Category 2	Special Requirements in 46 CFR 151 General and Mat'ls of .50-70(a), .50-81(a), (b), .55-1(c)	Insp. Period G					
Dichlorobenzene (all isomers)	DBX	36	0	Е	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	111	Α	No	N/A	.56-1(a), (b), (c), (g)	G					
2,4-Dichlorophenoxyacetic acid, dimethylamine salt solution	DAD	0 1,2	0	Α	111	A	No	N/A	.56-1(a), (b), (c), (g)	G					
2,4-Dichlorophenoxyacetic acid, triisopropanolamine salt solution	DTI	43 2	0	E	III	A	No	N/A	.56-1(a), (b), (c), (g)	G					
1,1-Dichloropropane	DPB	36	0	C	III	Α	Yes	3	No	G					
1,2-Dichloropropane	DPP	36	0	C	 	A	Yes	3	No	G					
1,3-Dichloropropane	DPC	36	0	C	 	A	Yes	3	No	G					
	DPU	15	0		: 	A	Yes	4	No	G					
1,3-Dichloropropene	DMX		0	C	11		Yes	1	No	G					
Dichloropropene, Dichloropropane mixtures			0						.55-1(c)	G					
Diethanolamine	DEA	7	0	E C	111	A	Yes	3	.55-1(c)	G					
Diethylamine		7 2		E	111	Α	Yes		.55-1(c)	G					
Diethylenetriamine	DET		0		- !!!	A	Yes	1	.55-1(c)	G					
Diisobutylamine	DBU	7	0	D		A	Yes	3		G					
Diisopropanolamine	DIP	8	0	E	- 111	A	Yes	1	.55-1(c)						
Diisopropylamine	DIA	7	0	С	11	Α	Yes	3	.55-1(c)	G					
N,N-Dimethylacetamide	DAC	10	0	E	111	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	A	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	III	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	Ш	Α	No	N/A	No	G					
Ethanolamine	MEA	8	0	E	111	Α	Yes	1	.55-1(c)	G					
Ethyl acrylate	EAC	14	0	С	III	Α	Yes	2	.50-70(a), .50-81(a), (b)	G					
Ethylamine solution (72% or less)	EAN	7	0	Α	11	Α	Yes	6	.55-1(b)	G					
N-Ethylbutylamine	EBA	7	0	D	Ш	Α	Yes	3	.55-1(b)	G					
N-Ethylcyclohexylamine	ECC	7	0	D	III	Α	Yes	1	.55-1(b)	G					
Ethylene cyanohydrin	ETC	20	0	Е	Ш	Α	Yes	1	No	G					
Ethylenediamine	EDA	7 2	0	D	III	Α	Yes	1	.55-1(c)	G					
Ethylene dichloride	EDC	36 ²	0	С	III	Α	Yes	1	No	G					
Ethylene glycol hexyl ether	EGH	40	0	E	III	Α	No	N/A	No	G					
Ethylene glycol monoalkyl ethers	EGC	40	0	D/E	111	Α	Yes	1	No	G					
Ethylene glycol propyl ether	EGP	40	0	E	III	Α	Yes	1	No	G					
2-Ethylhexyl acrylate	EAI	14	0	E	111	A	Yes		.50-70(a), .50-81(a), (b)	G					
Ethyl methacrylate	ETM	14	0	D/E	III	A	Yes	2	.50-70(a)	G					
2-Ethyl-3-propylacrolein	EPA	19 ²	0	E	111	A	Yes		No	G					
Formaldehyde solution (37% to 50%)	FMS	19 ²	0	D/E		A	Yes	1	.55-1(h)	G					
Furfural	FFA	19	0	D	111	A	Yes		.55-1(h)	G					
	GTA	19	0	NA NA	 	A	No	N/A		G					
Glutaraldehyde solution (50% or less)	HMC		-0	E	111		Yes		.55-1(c)	G					
Hexamethylenediamine solution	HMI	7	0		11	A	Yes		.56-1(b), (c)	G					
Hexamethyleneimine			0	C	- 11	A	Yes		.50-70(a), .50-81(a), (b)	G					
Hydrocarbon 5-9	HFN	20					Yes		.50-70(a), .50-81(a), (b)	G					
Isoprene	IPR	30	0	A	III	A				G					
Isoprene, Pentadiene mixture Kraft pulping liquors (free alkali content 3% or more)(including: Black,	IPN KPL	5	0	B NA	111	A	No No	N/A N/A		G					
Green, or White liquor)	MSO	18 ²	0	D	III	A	Yes	1	No	G					
Mesityl oxide	IVISU	10 2	<u> </u>	U	.111		165			100					



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Cargo Identificatio	Conditions of Carriage									
							-	Recovery		T
Name Methyl acrylate	Chem Code MAM	Compat Group No 14	Sub Chapter O	Grade C	Type III	Tank Group A	App'd (Y or N) Yes	VCS Category 2	Special Requirements in 46 CFR 151 General and Mat'ls of .50-70(a), .50-81(a), (b)	Insp. Period G
Methylcyclopentadiene dimer	MCK	30	0	С	Ш	Α	Yes	1	No	G
Methyl diethanolamine	MDE	8	0	Е	111	Α	Yes	1	.56-1(b), (c)	G
2-Methyl-5-ethylpyridine	MEP	9	0	E	III	Α	Yes	1	.55-1(e)	G
Methyl methacrylate	MMM	14	0	С	111	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	Ш	Α	Yes	2	.50-70(a), .50-81(a), (b)	G
Morpholine	MPL	7 2	0	D	III	Α	Yes	1	.55-1(c)	G
1- or 2-Nitropropane	NPM	42	0	D	Ш	Α	Yes	1	.50-81	G
1,3-Pentadiene	PDE	30	0	Α	Ш	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	E	111	Α	Yes	1	.55-1(e)	G
iso-Propanolamine	MPA	8	0	E	111	Α	Yes	1	.55-1(c)	G
Propanolamine (iso-, n-)	PAX	8	0	Е	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	III	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	III	Α	No	N/A	.50-73, .56-1(a), (b), (c)	G
Sodium chlorate solution (50% or less)	SDD	0 1,2	0	NA	III	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	111	Α	Yes	2	No	G
Styrene monomer	STY	30	0	D	Ш	Α	Yes	2	.50-70(a), .50-81(a), (b)	G
1,1,2,2-Tetrachloroethane	TEC	36	0	NA	Ш	Α	No	N/A	No	G
Tetraethylenepentamine	TTP	7	0	Е	Ш	Α	Yes	1	.55-1(c)	G
Tetrahydrofuran	THF	41	0	С	III	Α	Yes	1	.50-70(b)	G
Toluenediamine	TDA	9	0	Е	II	Α	No	N/A	.50-73, .56-1(a), (b), (c), (g)	G
1,2,4-Trichlorobenzene	TCB	36	0	Е	Ш	Α	Yes	1	No	G
1,1,2-Trichloroethane	TCM	36	0	NA	III	Α	Yes	1	.50-73, .56-1(a)	G
Trichloroethylene	TCL	36 ²	0	NA	III	Α	Yes	1	No	G
1,2,3-Trichloropropane	TCN	36	0	Е	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	Ш	Α	Yes	3	.55-1(e)	G
Triethylenetetramine	TET	7 2	0	Е	Ш	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	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	Ш	Α	No	N/A	.56-1(b)	G
Vanillin black liquor (free alkali content, 3% or more).	VBL	5	0	NA	Ш	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	111	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
Subchapter D Cargoes Authorized for Vapor Contro										
Acetone	ACT	18 ²	D	С		Α	Yes	1		
Acetophenone	ACP	18	D	E		Α	Yes	1		
Alcohol(C12-C16) poly(1-6)ethoxylates	APU	20	D	E		Α	Yes	1		
Alcohol(C6-C17)(secondary) poly(7-12)ethoxylates	AEB	20	D	E		Α	Yes	1		



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Shipyard: TRINITY ASHLAND

Hull #: 4608

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Cargo Identification	n							Condi	tions of Carriage	
							_	Recovery		T
Name Amyl acetate (all isomers)	Chem Code AEC	Compat Group No 34	Sub Chapter D	Grade D	Hull Type	Tank Group A	App'd (Y or N) Yes	VCS Category 1	Special Requirements in 46 CFR 151 General and Mat'ls of	Insp. Period
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		8 ¹ 8 5
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		D	D		Α	Yes	1		
Butyl alcohol (sec-)	BAS		D	С		Α	Yes	1		
Butyl alcohol (tert-)	BAT		D	С		Α	Yes	1		
Butyl benzyl phthalate	BPH	34	D	E		A	Yes	1		
Butyl toluene	BUE	32		_ D		A	Yes	1		
Caprolactam solutions	CLS	22	D	E	-	A	Yes	1		
Cyclohexane	CHX	31		C		A	Yes	1		
Cyclohexanol	CHN	20	D	E			Yes	1		
1,3-Cyclopentadiene dimer (molten)	CPD	30		D/E		A	Yes	2		
p-Cymene	CMP	32	D	D						
		19	D			A	Yes	1		
iso-Decaldehyde	IDA			E		A	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	E		Α	Yes	1		
Diacetone alcohol	DAA	20 ²	D	D		Α	Yes	1		
ortho-Dibutyl phthalate	DPA	34	D	E		Α	Yes	1		
Diethylbenzene	DEB	32	D	D		Α	Yes	1		
Diethylene glycol	DEG	40 ²	D	E		Α	Yes	1		
Diisobutylene	DBL	30	D	С		Α	Yes	1		
Diisobutyl ketone	DIK	18	D	D		Α	Yes	1		
Diisopropylbenzene (all isomers)	DIX	32	D	E		Α	Yes	1		
Dimethyl phthalate	DTL	34	D	Е		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		E		Α	Yes	1		
Distillates: Flashed feed stocks	DFF	33	D	E		Α	Yes	1		
Distillates: Straight run	DSR	33	D	E		A	Yes	1		
Dodecene (all isomers)	DOZ	30	D	D		A	Yes	1		
Dodecylbenzene, see Alkyl(C9+)benzenes	DDB	32	D	E		A	Yes	1		
2-Ethoxyethyl acetate	EEA	34	D	D		A	Yes	1		
Ethoxy triglycol (crude)	ETG	40	D	E		A	Yes	1		
	ETA	34	D	C		A	Yes	1		
Ethyl acetacetate	EAA	34	D	E				1		
Ethyl acetoacetate						Α	Yes			
Ethyl alcohol	EAL	20 2	D	С		Α	Yes	1		
Ethylbenzene	ETB	32	D	C		A	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		



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Official #: 1219322

Shipyard: TRINITY ASHLAND

CITY

Hull #: 4608

Cargo Identificatio	n							Condi	tions of Carriage	
								Recovery		
Name Ethylene glycol	Chem Code EGL	Compat Group No 20 ²	Sub Chapter D	Grade E	Hull Type	Tank Group A	App'd (Y or N) Yes	VCS	Special Requirements in 46 CFR 151 General and Mat'ls of	Insp. Period
Ethylene glycol butyl ether acetate	EMA	34	D	E		A	Yes	1		
Ethylene glycol diacetate	EGY	34	D	E		A	Yes	1		
Ethylene glycol phenyl ether	EPE	40	D	 E		A	Yes	1		
Ethyl-3-ethoxypropionate	EEP	34	D			A	Yes	1		
2-Ethylhexanol	EHX	20	D	E		A	Yes	1		
Ethyl propionate	EPR	34		C			Yes	1		
Ethyl toluene	ETE	32		D		A	Yes	1		
Formamide	FAM	10	D	E		A		1		
Furfuryl alcohol	FAL	20 2	D	E			Yes		1	
						A	Yes	1		
Gasoline blending stocks: Alkylates	GAK	33	D	A/C		A	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	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	Е		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	Е		Α	Yes	1		
Hexane (all isomers), see Alkanes (C6-C9)	HXS	31 ²	D	B/C		Α	Yes	1		
Hexanoic acid	HXO	4	D	E		Α	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		
Isophorone	IPH	18 ²		E		Α	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			Yes	1		
	MTT	34	D	D		A	Yes	1		
Methyl alcohol		20 ²	D	C				1		
Methyl alcohol	MAL					A	Yes			
Methylamyl acetate	MAC	34	D	D		A	Yes	1		
Methylamyl alcohol	MAA	20	D	D		Α	Yes	1		
Methyl amyl ketone	MAK	18	D	D		Α .	Yes	1		
Methyl tert-butyl ether	MBE	41 2	D	С		Α	Yes			
Methyl butyl ketone	MBK	18	D	С		A	Yes	1		
Methyl butyrate	MBU	34	D	С		Α	Yes	1		
Methyl ethyl ketone	MEK	18 ²	D	С		A	Yes	11		
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		



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Shipyard: TRINITY ASHLAND

Hull #: 4608

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Cargo Identificat	tion			-		Conditions of Carriage						
								Recovery				
Name Naphtha: Stoddard solvent	Chem Code NSS	Group No 33	Sub Chapter D	Grade D	Hull Type	Tank Group A	App'd (Y or N) Yes	VCS Category 1	Special Requirements in 46 CFR 151 General and Mat'ls of	Insp. Period		
Naphtha: Varnish makers and painters (75%)	NVM	33	D	С		Α	Yes	1				
Nonane (all isomers), see Alkanes (C6-C9)	NAX	31	D	D		Α	Yes	1				
Nonene (all isomers)	NON	30	D	D		Α	Yes	2				
Nonyl alcohol (all isomers)	NNS	20 ²	D	Е		Α	Yes	1				
Nonyl phenol	NNP	21	D	E		Α	Yes	1				
Nonyl phenol poly(4+)ethoxylates	NPE	40	D	E		Α	Yes	1				
Octane (all isomers), see Alkanes (C6-C9)	OAX	31	D	С		Α	Yes	1				
Octanoic acid (all isomers)	OAY	4	D	Е		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	1				
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		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: Gas, high pour	OGP	33	D	E		Α	Yes	1				
Oil, misc: Lubricating	OLB	33		 E		A	Yes	1				
Oil, misc: Residual	ORL	33		 E		A	Yes	1				
Oil, misc: Turbine	ОТВ	33	D	E		Α	Yes	1				
Pentane (all isomers)	PTY	31	D	Α		A	Yes	 5				
Pentene (all isomers)	PTX	30		A		A	Yes	5				
alpha-Pinene	PIO	30	D	D		A	Yes	1				
beta-Pinene	PIP	30	D	D		A	Yes	1				
	PAG	40	D	E		A	Yes	1				
Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether	PAF	34	D	Ē		A	Yes	1				
Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether acetate	PLB	30	D	E		A	Yes	1				
Polybutene Polybropylone glycel	PGC	40	D	 E		A	Yes	1				
Polypropylene glycol	IAC	34	D	C		A	Yes	1				
iso-Propyl acetate	PAT	34	D	C		A	Yes	1				
n-Propyl acetate	IPA	20 ²	D	C		A	Yes	1				
iso-Propyl alcohol	PAL	20 ²	D	c		A	Yes	1				
n-Propyl alcohol	PBY	32	D	D		A	Yes	1				
Propylbenzene (all isomers)	IPX	31	D	D		A	Yes	1				
iso-Propylcyclohexane	PPG	20 ²	D	E		Α	Yes	1				
Propylene glycol	PGN	34	D	D		A	Yes	1	*			
Propylene glycol methyl ether acetate	PTT	30	D	D		A	Yes	1				
Propylene tetramer Sulfolane	SFL	39	D	E		A	Yes	1				
Tetraethylene glycol	TTG	40		E		Α	Yes	1				
	THN	32	D	E		A	Yes	1				
Tetrahydronaphthalene Toluene	TOL	32	D	C		A	Yes	1				
Tricresyl phosphate (less than 1% of the ortho isomer)	TCP	34	D	E		A	Yes	1				
Triethylbenzene	TEB	32	D	E		A	Yes	1				
Triethylene glycol	TEG	40		E		A	Yes	1				
Triethyl phosphate	TPS	34	D	E		A	Yes	1				
Trimethylbenzene (all isomers)	TRE	32		{D}		A	Yes	1				
Trixylenyl phosphate	TRP	34	D	E	-	A	Yes	1				
Undecene	UDC	30	D	D/E		A	Yes	1				
Officered	000											



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Vessel Name: KIRBY 28104

Shipyard: TRINITY ASHLAND

CITY Hull #: 4608

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Cargo Identification							Conditions of Carriage					
Name 1-Undecyl alcohol	Chem Code UND	Compat Group No 20	Sub Chapter D	Grade E	Hull Type	Tank Group A	App'd	Recovery VCS Category 1	Special Requirements in 46 CFR 151 General and Mat'ls of	Insp.		
Xylenes (ortho-, meta-, para-)	XLX	32	D	D		Α	Yes	1				



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Shipyard: TRINITY ASHL

Hull #: 4608

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

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

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

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

Subchapter Subchanter D Subchapter O Note 3

Note 2

The subchapter in Title 46 Code of Federal Regulations under which the cargo has been classified. Those flammable and combustible liquids listed in 46 CFR Table 30.25-1.

Those hazardous cargoes listed in 46 CFR Table 151.05 and 46 CFR Part 153 Table 2.

Those cargoes listed in 46 CFR Part 153 Table 2 are non-regulated cargoes when carried in bulk on non-oceangoing barges.

Grade

The cargo classification assigned to each flammable or combustible liquid. Grades inside of "{ }" indicate a provisional assignment based upon literature sources which were not verified by manufacturers data. The Person-in-Charge shall verify the cargo grade based on Manufacturers data and ensure that the barge is authorized for carriage of that grade of cargo.

A, B, C Note 4 ammable liquid cargoes, as defined in 46 CFR 30-10.22

Combustible liquid cargoes, as defined in 46 CFR 30-10.15. The flammability/combustibility grade of these cargoes may vary depending upon the flashpoint and Reid vapor pressure. The Person-in-Charge shall verify the cargo grade based on Manufacturers data and ensure that the barge is authorized for carriage of that grade of cargo.

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

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

Hull Type

NA

NA

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

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

Not applicable to barges certificated under Subchapter D.

Conditions of Carriage

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

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

Conditions of Carriage

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.

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 This requirement is in addition to the requirements of Category 1.

Category 4

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

Category 5

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

Category 6 Category 7 (High vapor pressure and highly toxic) Must comply with requirements of Categories 1, 3 and 5. (High vapor pressure and polymerizes) Must comply with requirements of Categories 1, 2 and 5.

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