

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

Certification Date: 18 Dec 2023 Expiration Date: 18 Dec 2028

Certificate of Inspection

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

141552444			Official Number	IMO Nur	nber	Call Sign	Service		
KIRBY 110	007		1290939				Tank Barge		
Hailing Port						<u> </u>	_		
NEW ORL	EANS, LA		Hull Material	Hors	epower	Propulsion			
			Steel						
UNITED ST	TATES								
Place Built			Delivery Date	K-du-dan -					
CARUTHE	RSVILLE, MO		.00	Keel Laid Date	Gross Tons R-705	Net Tons	DWT	Length	
UNITED ST	TATEO		19Nov2018	17Oct2018	l-703	R-705		R-200.0	
OMITED ST	IAIES							1-0	
Owner				Operato	<u> </u>				
SEWALICH	ND MARINE L	_P				MARINE LP			
HOUSTON,	DRIVE SUITE	: 1000		1835	0 MARKET	ST.			
JNITED ST	ATES			CHA	NNELVIEW ED STATES	, TX 77530			
						_			
This vessel r	must be manne ifeboatmen, 0	d with the follo	owing licensed ermen, 0 HSC	and unlicensed	Personnel.	Included in wh	nich there m	ust be	
0 Masters		0 Licensed Mat		ngineers					
0 Chief Mate	es	0 First Class Pi	0 011101 1	ssistant Enginee	0 Oil	ers			
0 Second M	lates	0 Radio Officers		d Assistant Engineer					
0 Third Mate	es	0 Able Seamen		Assistant Enginee					
0 Master Fire	st Class Pilot	0 Ordinary Sear		ed Engineers				5	
0 Mate First	Class Pilots	0 Deckhands		ad Member Engin	eer				
n addition, the Persons allow	his vessel may wed: 0	carry 0 Passe	ngers, 0 Other	Persons in cre	w, 0 Person	s in addition to	crew, and n	o Others. Total	
Route Pern	nitted And Co	nditions Of O	porotion	7 4 2					
Lakes	Rave and	Sounds of	peration:	0					
			us Limited						
lso, in fai lorida	ir weather on	ly, not more	than twelve	(12) miles fi	om shore b	etween St. Ma	rks and Car	rrahelle.	
							.10-21(a)()) TE abla	
his vessel essel is op	has been gra	nted a fresh lt water mor	Water service	examination	interval	per 46 CFR 31	. TO ST (G) (4	:/. IE this	
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United States of America Department of Homeland Security United States Coast Guard

Certification Date: 18 Dec 2023 Expiration Date: 18 Dec 2028

Certificate of Inspection

Vessel Name: KIRBY 11007

(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
 31Dec2033
 18Dec2023
 19Nov2018

 Internal Structure
 31Dec2028
 18Dec2023
 19Nov2018

--- 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

11070 Barrels A 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)
1C	628	13.6
2C	592	13.6
3C	592	13.6

Loading Constraints - Stability

Hull Type	Maximum Load (short tons)	Maximum Draft (ft/in)	Max Density (lbs/gal)	Route Description
1	1401	8ft 8in	13.6	R
1	1401	8ft 8in	13.6	LBS
II	1509	9ft 2in	13.6	R
11	1509	9ft 2in	13.6	LBS
Ш	1726	10ft 2in	13.6	R
	1726	10ft 2in	13.6	LBS

Conditions Of Carriage

Only those specified hazardous cargoes named in the vessel's Cargo Authority Attachment (CAA), serial # C1-1704407, dated 11 Apr 2018, 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.

Per 46 CFR 39, excluding Part 39.4000, this vessel's vapor control system (VCS) has been inspected to the plans approved by Marine Safety Center letter serial # C1-1704407, dated 06 Dec 2017, and found acceptable for collection of bulk liquid cargo vapors annotated with "Yes" in the CAA's VCS column.

^{*}Vapor Control Authorization*



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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.

Stability and Trim

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 ---

Cargo Tanks

	Internal Exam		External Exa	m	
Tank ld	Previous Last	Next	Previous	Last	Next
1C	19Nov2018 18Dec	2023 31Dec2033	**	-	-
2C	19Nov2018 18Dec	2023 31Dec2033	-		**
3C	19Nov2018 18Dec	2023 31Dec2033	-	-	-
		Hydro Test			
Tank Id	Safety Valves	Previous	Last	Next	
1C	-	-	-	-	
2C	***	-	•	-	
3C	-	_	_		

---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



Certificate of Inspection

Cargo Authority Attachment

Shipyard: JEFFBOAT INCORPORATED

Dated:

C1-1704407

11-Apr-18

Hull #: 17-2450

Official #: 1290939

Tank Group Information	Cargo k	dentificati	on	ALERANA ALAMA	Cargo		Tanks		Carg Trans		Environ Control	mental	Fire	Special Require	ments		
Tink 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 #1,#2,#3	13.6	Atmos.	Amb.	1	1ii 2ii	Integral Gravity	PV	Closed	11	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), (j), 56-1(a), (b), (c), (d), (e), (f), (g),	I-B	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 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.

List of Authorized Cargoes

Cargo Identification			1	Condi	tions of Carriage					
	AAAAAAA	Compat					Vapor R			
Name	Chem Code	Group No	Sub Chapter	Grade	Hull Type	Tank Group	(Y or N)	VCS Category	Special Requirements in 46 CFR 151 General and Mat'ls of	Insp. Period
Authorized Subchapter O Cargoes										
Olefins (C13+, all isomers)	OFZ	30	D/O	E	111	Α	Yes	1		G
Acetonitrile	ATN	37	0	С	III	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	111	Α	No	N/A	.50-81, .50-86	G
Aminoethyl ethanolamine	AEE	8	0	E	111	Α	Yes	1	.55-1(b)	G
Ammonium bisulfite solution (70% or less)	ABX	43 2	0	NA	III	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	И	Α	No	N/A	No	G
Benzene	BNZ	32	0	C	III	Α	Yes	1	.50-60	G
Benzene or hydrocarbon mixtures (having 10% Benzene or more)	ВНВ	32 ²	0	C	III	Α	Yes	1	.50-60	G
Benzene or hydrocarbon mixtures (containing Acetylene and 10% Benzene or more)	ВНА	32 ²	0	С	III	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	III	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	A	No	N/A	No	G
Carbon tetrachloride	CBT	36	0	NA	111	Α	Yes	3	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	111	Α	No	N/A	.50-73, .55-1(j)	G
Chlorobenzene	CRB	36	O	D	111	Α	Yes	1	No	G
Chioroform	CRF	36	0	NA	111	A	Yes	3	No	G
Coal tar naphtha solvent	NCT	33	0	D	HI	Α	Yes	1	.50-73	G
Creosote	CCM	/ 212	0	E	HH	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	III	Α	No	N/A	.50-73, .55-1(b)	G
Cresylic acid tar	CRX	21	0	E	 	Α	Yes	1	.55-1(f)	G
Crotonaldehyde	CTA	19 2		c		Α	Yes		.55-1(h)	G
Crude hydrocarbon feedstock (containing Butyraldehydes and Ethylpropyl acrolein)	CHG			c	111	Α	Yes		No	G
Cyclohexanone	ССН	18	0	D	III	Α	Yes	1	.56-1(a), (b)	G
Cyclohexanone, Cyclohexanol mixture	CYX	18 2	0	E	111	Α	Yes	1	.56-1 (b)	G



Official #: 1290939

Dated: 11-Apr-18

Certificate of Inspection

Cargo Authority Attachment

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Shipyard: JEFFBOAT INCORPORATED

Hull #: 17-2450

Cargo Identification			Condi	tions of Carriage	THE STATE OF THE S					
		Compat					Vapor F	Recovery	Special Requirements in 46 CFR	
Name	Chem Code	Group No	Sub Chapter	Grade	Hull Type	Tank Group	App'd (Y or N)	VCS Category	151 General and Mat'ls of Construction	Insp. Period
	}	<u></u>	<u> </u>	<u></u>		l	<u>. </u>			
Cyclohexylamine	CHA	7	0	D	III	Α	Yes	1	.56-1(a), (b), (c), (g)	G
Cyclopentadiene, Styrene, Benzene mixture	CSB	30			 III	A	Yes	1	.50-60, .56-1(b)	G
iso-Decyl acrylate	IAI	14	0	E	111	Α	Yes	2	.50-70(a), .50-81(a), (b), .55-1(c)	G
Dichlorobenzene (all isomers)	DBX	36	0	E	111	Α	Yes	3	.56-1(a), (b)	G
1,1-Dichloroethane	DCH	36	0	С	111	Α	Yes	1	No	G
2,2'-Dichloroethyl ether	DEE	41	O	D	11	Α	Yes	1	.55-1(f)	G
Dichloromethane	DCM	36	0	NA	111	Α	No	N/A	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 O	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	C	111	Α	Yes	3	No	G
1,2-Dichloropropane	DPP	36	O	С	111	Á	Yes	3	No	G
1,3-Dichloropropane	DPC	36	O	C	III	Α	Yes	3	No	G
1,3-Dichloropropene	DPU	15	0	D	II.	Α	Yes	4	No	G
Dichloropropene, Dichloropropane mixtures	DMX	15	0	С	11	Α	Yes	1	No	G
Diethanolamine	DEA	8	0	E	III	Α	Yes	1	.55-1(c)	G
Diethylamine	DEN	7	0	С	111	A	Yes	3	.55-1(c)	G
Diethylenetriamine	DET	7 2	0	E	III	A	Yes	1	.55-1(c)	G
Diisobutylamine	DBU	7	0	D	III	Α	Yes	3	.55-1(c)	G
Diisopropanolamine	DIP	8	0	E	111	Α	Yes	1	.55-1(c)	G
Diisopropylamine	DIA	7	0	С	II	Α	Yes	3	.55-1(c)	G
N,N-Dimethylacetamide	DAC	10	0	E	111	Α	Yes	3	.56-1(b)	G
Dimethylethanolamine	DMB	8	0	D	III	Α	Yes	1	.56-1(b), (c)	G
Dimethylformamide	DMF	10	0	D	III	Α	Yes	1	.55-1(e)	G
Di-n-propylamine	DNA	7	0	С	II.	Α	Yes	3	.55-1(c)	G
Dodecyldimethylamine, Tetradecyldimethylamine mixture	DOT	7	0	E	III	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	111	A	No	N/A	No	G
Ethanolamine	MEA	8	0	E	III	Α	Yes	1	.55-1(c)	G
Ethyl acrylate	EAC	14	0	С	111	Α	Yes	2	.50-70(a), .50-81(a), (b)	G
Ethylamine solutions (72% or less)	EAN	7	0	Α	11	Α	No	N/A	.55-1(b)	G
N-Ethylbutylamine	EBA	7	0	D	III	Α	Yes	3	.55-1(b)	G
N-Ethylcyclohexylamine	ECC	7	0	D	111	Α	Yes	1	.55-1(b)	G
Ethylene cyanohydrin	ETC	20	0	E	III	Α	Yes	1	No	G
Ethylenediamine	EDA	72	0	D	III	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	III	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	Е	III	Α	Yes	2	.50-70(a), .50-81(a), (b)	G
Ethyl methacrylate	ETM	14	0	D/E	III	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	111	A	Yes	1	.55-1(h)	G
Furfural	FFA	19	0	D	III	Α	Yes	1	.55-1(h)	G
Glutaraldehyde solutions (50% or less)	GTA	19	0	NA	f)	A	No	N/A	No	G





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Hull #: 17-2450

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Cargo Identification		. (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 Construction	Insp. Period
Hexamethylenediamine solution	HMC	7	0	E	111	Α	Yes	1	.55-1(c)	G
Hexamethyleneimine	HMł	7	0	С	11	Α	Yes	1	.56-1(b), (c)	G
Isoprene	IPR	30	0	Α	111	Α	No	N/A	.50-70(a), .50-81(a), (b)	G
Isoprene, Pentadiene mixture	IPN	30	0	В	1[1	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	111	Α	No	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	14	0	С	111	A	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	Ε	111	Α	Yes	1	.56-1(b), (c)	G
2-Methyl-5-ethyl pyridine	MEP	9	0	E	111	Α	Yes	1	.55-1(e)	G
Methyl methacrylate	MMN	14	0	С	111	Α	Yes	2	.50-70(a), .50-81(a), (b)	G
2-Methylpyridine	MPR	9	0	D	(1)	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	73	0	D	111	Α	Yes	1	.55-1(c)	G
Nitroethane	NTE	42	0	D	II	Α	No	N/A	.50-81, .56-1(b)	G
1- or 2-Nitropropane	NPM	42	0	D		Α	Yes	1	.50-81	G
1,3-Pentadiene	PDE	30	0	Α		Α	No	N/A	.50-70(a), .50-81	G
Perchloroethylene	PER	36	0	NA	111	Α	No	N/A	No	G
Polyethylene polyamines	PEB	7 3	0	E	111	Α	Yes	1	.55-1(e)	G
Potassium chloride solution (brine)	PCSI	3 0	0	NA	И	Α	No	N/A	· · · · · · · · · · · · · · · · · · ·	G
iso-Propanolamine	MPA	8	0	Ė	111	Α	Yes	1	.55-1(c)	G
Propanolamine (iso-, n-)	PAX	8	0	E	[1]	Α	Yes	1	.56-1(b), (c)	G
Isopropylamine	IPP	7	0	Α	II	Α	No	N/A	.55-1(c)	G
Pyridine	PRD	9	0	С	111	Α	Yes	1	.55-1(e)	G
Pyrolysis Gasoline (containing benzene)	PYG	32	0	С	И	Α	No	N/A	.50-60	G
Sodium acetate, Glycol, Water mixture (3% or more Sodium Hydroxide) SAP	5	0			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)	6
Sodium chlorate solution (50% or less)	SDD	0 1	2 0	NA	H	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	H	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	^{1,2} O	NA	uı	Α	No	N/A	.50-73, .55-1(b)	G
Sodium sulfide, hydrosulfide solution (H2S greater than 200 ppm)	SSJ	0 1	^{1,2} O	NA	II	Α	No	N/A	.50-73, .55-1(b)	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
Tetraethylene pentamine	TTP	7	0	E	111	Α	Yes	1	.55-1(c)	G
Tetrahydrofuran	THF	41	0	С	III	Α	Yes	1	.50-70(b)	G
1,2,4-Trichlorobenzene	TCB	36	0	E	III	Α	Yes	1	No	G
1,1,1-Trichloroethane	TCE	36	03	NA	II	Α	No	N/A	.50-73, .56-1(a)	G
1,1,2-Trichloroethane	TCM	36	0	NA	[]]	Α	Yes	1	.50-73, .56-1(a)	G
Trichloroethylene	TCL	36 2	. 0	NA	Ш	Α	Yes	1	No	G
1,2,3-Trichloropropane	TCN	36	0	Е	11	Α	Yes	3	.50-73, .56-1(a)	G
Triethanolamine	TEA	8 -	0	É		A	Yes	1	.55-1(b)	G
Triethylamine	TEN	7	0	Ç	II	Α	Yes	3	.55-1(e)	G
						~				



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Shipyard: JEFFBOAT **INCORPORATED**

Hull #: 17-2450

Cargo Identification								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 Construction	Insp. Period
<u></u>		.`								* : -
Triethylenetetramine	TET	7 2	0	E	Ш	Α	Yes	1	.55-1(b)	G
Triphenylborane (10% or less), caustic soda solution	TPB	5	0	NA	Ш	Α	No	N/A	.56-1(a), (b), (c)	G
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	H	Α	No	N/A	.56-1(b)	G
Vanillin black liquor (free alkali content, 3% or more).	VBL	5	0	NA	111	Α	No	N/A	.50-73, .56-1(a), (c), (g)	G
Vinyl acetate	VAM		0	C	111	<u> </u>	Yes	2	.50-70(a), .50-81(a), (b)	G
Vinyl neodecanoate	VND	13	0	E	- 111	A	No	N/A	.50-70(a), .50-81(a), (b)	G G
Vinyltoluene	VNT	13	0	D	#	A	Yes	2	.50-70(a), .50-81, .56-1(a), (b), (c), (G
Subchapter D Cargoes Authorized for Vapor Contro	ı									
Acetone	ACT	18	2 D	С		Α	Yes	1		
Acetophenone	ACP	18	D	E		Α	Yes	1		
Alcohol (C12-C16) poly(20+) ethoxylates	APV	/ 20	D	E		Α	Yes	1		
Alcohol (C6-C17) (secondary) poly(3-6) ethoxylates	AEA	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		А	Yes	1		····
Benzyl acetate	BZE	34	D	E	*************	Α	Yes	1		
Benzyl alcohol	BAL	21	D	E		A	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)		20	D	E	***************	Α	Yes	1		
Butyl acetate (all isomers)	BAX	34	D	D		Α	Yes	1		
Isobutyl alcohol	IAL	20	, 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		А	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		
Cycloheptane	CYE		D	С		A	Yes			
Cyclohexane	СНХ		0	c		A	Yes			
Cyclohexanol	CHN			E		A	Yes			
Cyclohexyl acetate	CYC		D			A	Yes			
1,3-Cyclopentadiene dimer (molten)	CPD		D	D/E		A	Yes			
Cyclopentane	CYP		D	В		<u>^</u>	Yes			
	CMF		ם	D		^ A	Yes			
p-Cymene									***************************************	
iso-Decaldehyde	IDA	19	<u>D</u>	E		A	Yes			
n-Decaldehyde	DAL		D	<u>E</u>		<u>A</u>	Yes			
Decanoic acid	DCC) 4	D	#		A	Yes	1		



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Cargo Identification)			·				Condi	tions of Carriage	
	Chem	Compat Group	Sub		Hull	Tank		Recovery VCS	Special Requirements in 46 CFR	
Name	Code	No	Chapter	Grade	Туре	Group	(Y or N)	Category	151 General and Mat'is of Construction	Insp. Period
			Minisian	•	·	*****				
Decene	DCE	30	Ď	D		Α	Yes			
Decyl alcohol (all isomers)	DAX	20 2		E		Α	Yes			,
n-Decylbenzene, see Alkyl(C9+)benzenes	DBZ	32	D	E		A	Yes			
Diacetone alcohol	DAA	20 2		D		Α	Yes		·····	
Dibutyl phthalate	DPA	34	D	<u>E</u>	***************************************	A	Yes	~~~~~~~~~~	•	
Diethylbenzene	DEB	32	D	D		Α	Yes	·		
Diethylene glycol	DEG	40 2		E	***************************************	Α	Yes			
Diisobutylene	DBL	30	D	С		Α	Yes			
Diisobutyl ketone	DIK	18	D	D		Α	Yes	1		
Disopropylbenzene (all isomers)	DIX	32	D	<u> </u>		A	Yes	1		
Dimethyl phthalate	DTL	34	D	<u>E</u>		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		A	Yes	1		· · · · · · · · · · · · · · · · · · ·
Diphenyl, Diphenyl ether mixtures	DDO	33	D	E	····	Α	Yes	1	· · · · · · · · · · · · · · · · · · ·	
Diphenyl ether	DPE	41	D	{E}		A	Yes	1		
Dipropylene glycol	DPG	40	D	Ė		Α	Yes	1		
Distillates: Flashed feed stocks	DFF	33	D	E		Α	Yes	1	***************************************	
Distillates: Straight run	DSR	33	D	E		Α	Yes	1		
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	Ď		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	E		A	Yes	1	***************************************	***************************************
Ethyl alcohol	EAL	20	D D	С		Α	Yes	1		
Ethylbenzene	ETB	32	D	С		Α	Yes	1		
Ethyl butanol	EBT	20	D	D		Α	Yes	1		
Ethyl tert-butyl ether	EBE	41	D	С		Α	Yes	. 1		
Ethyl butyrate	EBR	34	D	D		Α	Yes	1		
Ethyl cyclohexane	ECY	31	D	D		Α	Yes	1		
Ethylene glycol	EGL	20 3	? D	E		Α	Yes	1		
Ethylene glycol butyl ether acetate	EMA	34	D	E		Α	Yes	1		
Ethylene glycol diacetate	EGY	34	D	E		Α	Yes	1	**************************************	
Ethylene glycol phenyl ether	EPE	40	D	E		A	Yes	1		
Ethyl-3-ethoxypropionate	EEP	34	D	D		A	Yes	1		·
2-Ethylhexanol	EHX	20	D	E		Α	Yes	1		
Ethyl propionate	EPR	34	D	С		Α	Yes	1		



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JEFFBOAT INCORPORATED

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Methyl butyrate

Methylcyclohexane

Methyl ethyl ketone

Methyl heptyl ketone

2-Methyl-2-hydroxy-3-butyne

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Cargo Identification Conditions of Carriage Vapor Recovery Special Requirements in 46 CFR Compat VCS Chem Sub Hull Tank App'd 151 General and Mat'ls of Insp. Period Grade (Y or N) Category Chapter Type Group Name No Construction 32 D D ETE Yes Ethyl toluene Formamide FAM 10 D E Α Yes 1 Furfuryl alcohol FAL 20 ² D Yes A/C Gasoline blending stocks: Alkylates GAK Α Yes Gasoline blending stocks: Reformates **GRF** D A/C Yes С Gasolines: Automotive (containing not over 4.23 grams lead per gallon) GAT 33 D Α Yes 1 C Gasolines: Aviation (containing not over 4.86 grams of lead per gallon) GAV 33 Đ Α Yes Gasolines: Casinghead (natural) D A/C GCS 33 Α Yes 1 33 D A/C Α Gasolines: Polymer **GPL** Yes 1 Gasolines: Straight run **GSR** 33 D A/C Α Yes **GCR** 20² D Ε Yes ¢ Heptane (all isomers), see Alkanes (C6-C9) (all isomers) HMX D Yes Е n-Heptanoic acid HEN 4 D Α Yes 1 Heptanol (all isomers) HTX 20 D D/E Α 1 Yes Heptene (all isomers) HPX 30 D С Α 2 Yes HPE 34 D E Α Yes Heptyl acetate Hexane (all isomers), see Alkanes (C6-C9) HXS 31 2 D B/C Α Yes Hexanoic acid HXO 4 D Ε Α Yes HXN 20 D Hexanol D Α Yes С Hexene (all isomers) HEX 30 D Α Yes 2 D E HXG 20 Hexylene glycol Α Yes 1 Isophorone IPΗ 18 ² D E Α Yes Jet fuel: JP-4 33 D E Α Yes 1 D D Jet fuel: JP-5 (kerosene, heavy) Yes Kerosene KRS 33 D D Α Yes # Lauric acid LRA 34 D Α Yes MIT 34 D D Α 1 Methyl acetate Yes MAL 20 2 Đ C Methyl alcohol Α 1 Yes Methylamyl acetate MAC 34 D D Α Yes 20 Þ Þ Methylamyl alcohol MAA Α Yes Methyl amyl ketone MAK 18 D D Α Yes 41 2 Methyl tert-butyl ether M8E D С Α Yes 1 MBK 18 D C Α 1 Methyl butyl ketone Yes

MBU

MCY

MEK

MHK

MHB

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Cargo Identificat	ion							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 Construction	Insp. Period
Methyl isobutyl ketone	MIK	18 2	D	С		Α	Yes	1		
Mineral spirits	MNS	33	D	D		Α	Yes	1		
Myrcene	MRE	30	D	D		A	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		Α	Yes	1		
Naphtha: Varnish makers and painters (75%)	NVM	33	D	С		Α	Yes	1		
Neodecanoic acid	NEA	4	D	E		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	E		Α	Yes	1		
Nonyl phenol	NNP	21	D	E		Α	Yes	1		
Nonyl phenol poly(4+)ethoxylates	NPE	40	D	£		Α	Yes	1		
Octane (all isomers), see Alkanes (C6-C9)	OAX	31	Ď	С		Α	Yes	1		
Octanoic acid (all isomers)	OAY	4	D	E		Α	Yes	1		
Octanol (all isomers)	ocx	20	D	Ė		Α	Yes	1		
Octene (all isomers)	ОТХ	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. 6	OSX	33	D	E		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	Е		Α	Yes	1		
Oil, misc: Lubricating	OLB	33	D	E		А	Yes	1		
Oil, misc: Residual	ORL	33	D	E		A	Yes		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Oil, misc: Turbine	ОТВ	33	D	E		A	Yes			
n-Pentyl propionate	PPE	34	D	D		A	Yes		<u>, 1884-1884-1884-1884-1884-1884-1884-1884</u>	
alpha-Pinene	PIO	30	D	D		Α	Yes			
beta-Pinene	PIP	30	D	D	***************************************	Α	Yes		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Poly(2-8)alkylene glycol monoalkyl (C1-C6) ether	PAG	40	D	E		Α	Yes			
Poly(2-8)alkylene glycol monoalkyl (C1-C6) ether acetate	PAF	34	D	E		<u></u> _A	Yes	······································	·····	
Polybutene	PLB	30		E		^``	Yes			
Polypropylene glycol	PGC		D	E		A	Yes			
Propionaldehyde	PAD	19	D			A	Yes			
Isopropyl acetate	IAC	34	D	c	***************************************		Yes			······
n-Propyl acetate	PAT	34	D	C		A	Yes			***************************************
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1-Undecyl alcohol

Xylenes (ortho-, meta-, para-)

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Cargo Identification **Conditions of Carriage** Vapor Recovery Compat Special Requirements in 46 CFR Chem Sub Hull VCS Group Tank App'd 151 General and Mat'ls of Insp. Period Chapter Grade (Y or N) Category Construction Name Туре No IPA 20 2,3 Đ C Α Yes Isopropyl alcohol 20² n-Propyl alcohol PAL D С Α Yes 1 Propylbenzene (all isomers) PBY 32 D D Α Yes Isopropylcyclohexane **IPX** 31 D D Α 1 20 ² Propylene glycol PPG D Ε Α Yes Propylene glycol methyl ether acetate D **PGN** 34 D Α Yes 1 D Propylene tetramer PTT 30 D Α Yes 1 Sulfolane SFL D E 39 Α Yes 1 Tetraethylene glycol TTG D Ε Α 1 Yes Tetrahydronaphthalene THN Α Yes Tetramethylbenzene (all isomers) TTC 32 D # Α Toluene ¢ TOL 32 D Α Yes Tricresyl phosphate (containing less than 1% ortho isomer) E TCP 34 D Α Yes 1 Triethylbenzene Е Yes TEB 32 D Α 1 Triethylene glycol TEG 40 D E Α Yes Е Triethyl phosphate TPS 34 Đ Α Yes Trimethylbenzene (all isomers) TRE D {D} Α Yes 2,2,4-Trimethyl-1,3-pentanediol-1-isobutyrate TMP 34 D Ε Α Yes Trixylyl phosphate Ε TRP 34 D Α 1 Yes 1-Undecene UDC 30 D D/E Α Yes 1

UND

XLX

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32

D E

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Α

Yes

Yes

1



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Shipyard: JEFFBOAT IN

Hull #: 17-2450

Explanation of terms & symbols used in the Table:

Cargo Identification

Name Chem Code

Official #: 1290939

The propper 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.

Because of the very high reactivity or unusual conditions of carriage or potential compatibility problems, this product is not assigned to a specific group in the Compatibility Chart. For additional compatibility information, contact Commandant (CG-3PSO-3), U.S. Coast Guard, 2100 Second Street, SW, Washington, DC 20593-0001. Telephone (202) 372-1425.

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

Subchapter Subchapter D Subchapter O

Note 1

Note 2

The subchapter in Title 46 Code of Federal Regulations under which the cargo has been classified.

Those flammable and combustible liquids listed in 46 CFR Table 30.25-1

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

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

Grade

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

A, B, C

lammable liquid cargoes, as defined in 46 CFR 30-10.22.

Combustible liquid cargoss, 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

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

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

Designed to carry products of sufficeint hazard to require a moderate degree of control. See 46 CFR 151.10-1(b)(4). Not applicable to barges certificated under Subchapter D.

Conditions of Carriage

Tank Group Vapor Recovery Approved (Y or N)

The vessel's tank group (as defined in Section 4) which is authorized for carriage of the named cargo.

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

Conditions of Carriage

Tank Group Vapor 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:

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

Category 1

(No additional VCS requirements above those for benzene, gasolines and crude oil) All requirements applying to the handling of oil and hazardous materials in Titles 33 and 46 Code of Federal Regulations (CFR) apply to these cargoes. Those specifically dealing with vapor control systems are in 33 CFR 155.750, 33 CFR 156.120, 33 CFR 156.170, 46 CFR 35.35 and 46 CFR 39. The cargo tank venting system calculations (46 CFR 39.2011) and the pressure drop calculations (46 CFR 39.3001) 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 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

(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 39.2009. Category 3 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.

(High vapor pressure) VCS pressure drop calculations for cargoes with a vapor pressure greater than 14.7 psia at 115 F must take into account increased vapor-air mixture densities and vapor growth rates as compared to Category 1cargoes. Consult the Marine Safety Center's VCS Guidelines for further information. This Category 5

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.

Category 7 (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.