

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

Certification Date: 06 Jan 2022 Expiration Date: 06 Jan 2027

Certificate of Inspection

For ships on international yourges this cartificate hifflits the requirements of SQLAS 74 as amended, regulation V/14, for a SAFE MANNING DOCUMENT.

	•										
Vessel Name		(Official Number	MO M	umber	Call Sign	Service				
KIRBY 28077			1183307				Tank E	Barge			
Hailing Port						Ph					
WILMINGTON	I, DE		Hull Malerial	H	orsepower	Propulsion					
			Steel								
UNITED STAT	res										
Place Buill			Delivery Date	Keel Laid Date	Gross Tons	Net Tons	DWT	Length			
ASHLAND CI	ry, tn		·		R-1632	R-1632		R-300.0			
CIPICADA MANAGEMENT ANALYSIS	ree		19Jul2006	05Jun2006) }	J.		1-0			
UNITED STAT	にら										
Owner LIDBA IVII VVI	D MADINE I "				ralor RBY INLAND	MARINE I P					
KIRBY INLAN	U MARINE LE TREETSUITE				350 Market S						
HOUSTON, T	X 77007			CI	rannelview, T	X 77530					
UNITED STA					VITED STATE						
					. ~	والإقاد والمالية		must be			
This vessel m 0 Certified Lif	ust be manned eboatmen, 0 C	d with the fo Certified Tar	llowing license nkermen, 0 HS	ed and unlicen C Type Ratin	g, and 0 GMD	SS Operators	wnich there r	must ne			
0 Masters		0 Licensed M	_,	lef Engineers)ilers					
0 Chief Mate	5	0 First Class	Pilots 0 Fire	st Assistant Engl	neers						
0 Second Ma	ites	0 Radio Offic		cond Assistant E	-						
0 Third Mate		0 Able Seam		ird Assistant Eng							
0 Master Firs		0 Ordinary So		ensed Engineers				•			
0 Mate First		0 Deckhands		ialified Member E		nne io addition	to crow see	I no Others Total			
In addition, the Persons allow		carry 0 Pas	sengers, U Oli	ner Mersons In	crew, U Perso	ons in addition	to crew, and	i no Others, Total			
Route Perm	nitted And Cor	nditions Of	Operation:								
Lakes,	Bays, and	Sounds-		•							
hien in fai	r weather on	lv. limi≠~	d coastwiss	not more th	an twelve (1	2) miles fro	m shore				
between St.	r weacner on Marks and Ca	rrabelle,	Florida.	meku ut	government \$3	.,	*				
This vessel	has been ora	nted a fre	sh water ser	vice examina	tion interva	al in accorda	nce with 46	CFR 31.10-21(a			
12). If this	vessel is o	perated in	salt water	more than si	x (6) months	in any twel	ve (12) mon	ith period, the			
vessel must notified in	be inspected writing as s	using sal oon as thi	t water into s change in	rvais per 46 status occui	: Crk 31,10-2	r (4) (1) and	cue coduras	int OCMI must be			
	-		_								
_	CT PAGE FO										
With this Insp	ection for Cert	ification hav	ing been com	pleted at Free	eport, TX, UN	ITED STATES	s, the Officer	in Charge, Marine			
Inspection, Ho	ouston-Galvest regulations pre	ion certified escribed the	trie vessel, in reunder	aii respects,	s in contormi	iy with the appl	licable vesse	l inspection laws a			
ine ruies and	regulations pre Annual/Per			1	This certific	ate issued by:	0				
Data	Zone	A/P/R		ature			, -	BY DIRECTION			
Date 10/18/2022	1100	A	Darrah			Marine Inspection	J. 1, UUUU, I				
12-1-2023	New Odees		Scott F	chih	muner in many Agi		ton-Galvesto	าก			
	(A. M				Inspection Zone						
	<u> </u>	1	I	1							

OMB No. 2115-0517



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

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Certificate of Inspection

This tank barge is participating in the Eighth and Ninth Coast Guard District's Tank Barge Streamlined Inspection Program (TBSIP). Inspection activities aboard this barge shall be conducted in accordance with its Tank Barge Action Plan (TAP). Inspection issues concerning this barge should be directed to OCMI Houston-Galveston.

---Hull Exams---

Exam Type

Next Exam

Last Exam

Prior Exam

DryDock

31Oct2026

06Oct2016

06Oct2006

Internal Structure

31Oct2026

06Jan2022

06Oct2016

--- 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

28500

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	834	13.58
#2 P/S	839	13.58
#3 P/S	773	13.58

Loading Constraints - Stability

Hull Type	Maximum Load (short tons)	Maximum Draft (ft/in)	Max Density (lbs/gal)	Route Description
II	3786	10ft 0in	13.58	R, LBS
111	4662	11ft 9in	13.58	R. LBS

Conditions Of Carriage

Only those cargoes named in the vessel's Cargo Authority Attachment (CAA), Serial #C2-0601234, dated June 8, 2006, may be carried, and then only in the tanks indicated. When the vessel is carrying cargoes containing greater than 0.5% benzene. the person in charge is responsible for ensuring the provisions of 46 CFR 197, Subpart C are applied.

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

The maximum design density of cargo which may be filled to the tank top is 8.745 lbs/gal. Cargoes with higher densities, up to 13.58 lbs/gal, may be carried as slack loads, but shall not exceed the tank weight limits as listed above.

Per 46 CFR 151.10-15(c)(2) the max tank weights reflect uniform (within 5%) loading at the deepest draft allowed. When carrying Subchapter O cargoes at shallower drafts, the barge(s) should always be loaded uniformly.



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Certificate of Inspection

Vessel Name: KIRBY 28077

Vapor Control Authorization

In accordance with 46 CFR Part 39, excluding part 39.4000, this vessel's vapor collection system (VCS) has been inspected to the plans approved by MSC Letter #C2-0601234 dated June 8, 2006, and has been found acceptable for the collection of bulk liquid cargo vapors annotated with "Yes" in the CAA's VCS column. The VCS system has been approved with a pressure side of 6 psig P/V valve with Coast Guard Approval 162.017/167. The cargo tank top is suitable for a maximum allowable working pressure (MAWP) of 6.50 psig.

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

--- Inspection Status ---

Cargo Tanks

	Internal Exam			External Exan	n	
Tank Id	Previous	Last	Next	Previous	Last	Next
#1 P/S	-:	06Oct2016	06Oct2026	06Oct2016	06Jan2022	31Oct2026
#2 P/S	-	06Oct2016	06Oct2026	06Oct2016	06Jan2022	31Oct2026
#3 P/S	-	06Oct2016	06Oct2026	06Oct2016	06Jan2022	31Oct2026
			Hydro Test			
Tank Id	Safety Valves	i i	Previous	Last	Next	
#1 P/S	-		-	::=	-	
#2 P/S			,=	-		
#3 P/S	_		-	·-	_,	

--- Conditional Portable Fire Extinguisher Requirements---

Required Only During Transfer of Cargo or Operation of Barge Machinery

--- Fire Fighting Equipment ---

Fire Extinguishers - Hand portable and semi-portable

Quantity

Class Type

2

40-B

END



Serial #: C2-0601234 Generated: 08-Jun-06



Certificate of Inspection

Cargo Authority Attachment

Vessel Name: KIRBY 28077

Official #: 1183307

Shipyard: Trinity, Ashland City

Hull #: 4518

46 CFR 151 Tank Group Characteristics

Tank Group Information	Cargo I	dentificat	ion	į.	Cara		Tanks		Carg		Enviro	nmental I	Fire	Special Require	ements		
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		Temp Cont
A #1P/S, #2P/S, #3P/S	13.6	Atmos.	Amb.	II	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), (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 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								Conditions of Carriage						
						, , , , , , , , , , , , , , , , , , , ,		Recovery						
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	(Y or N)	VCS Category	Special Requirements in 46 CFR 15 General and Mat'ls of Construction					
Authorized Subchapter O Cargoes														
Acetonitrile	ATN	37	0	C	111	Α	Yes	3	No					
Acrylonitrile	ACN	15 ²	0	С	11	Α	Yes	4	.50-70(a), .55-1(e)					
Adiponitrile	ADN	37	0	Ε	H	Α	Yes	1	No					
Alkyl(C7-C9) nitrates	AKN	34 2	0	NA	111	Α	No	N/A	.50-81, .50-86					
Aminoethylethanolamine	AEE	8	0	Ε	Ш	Α	Yes	1	.55-1(b)					
Ammonium bisulfite solution (70% or less)	ABX	43 2	0	NA	Ш	Α	No	N/A	.50-73, .56-1(a), (b), (c)					
Ammonium hydroxide (28% or less NH3)	AMH	6	0	NA	111	Α	No	N/A	.56-1(a), (b), (c), (f), (g)					
Anthracene oil (Coal tar fraction)	AHO	33	0	NA	11	Α	No	N/A	No					
Benzene	BNZ	32	0	C	111	Α	Yes	1	.50-60					
Benzene or hydrocarbon mixtures (having 10% Benzene or more)	внв	32 2	0	С	111	Α	Yes	1	.50-60					
Benzene or hydrocarbon mixtures (containing Acetylene and 10% Benzene or more)	ВНА	32 ²	0	С	111	Α	Yes	1	.50-60, .56-1(b), (d), (f), (g)					
Benzene, Toluene, Xylene mixtures (10% Benzene or more)	BTX	32	0	B/C	111	Α	Yes	1	.50-60					
Butyl acrylate (all isomers)	BAR	14	0	D	111	Α	Yes	2	.50-70(a), .50-81(a), (b)					
Butyl methacrylate	ВМН	14	0	D	111	Α	Yes	2	.50-70(a)50-81(a). (b)					
Butyraldehyde (all isomers)	BAE	19	0	С	111	Α	Yes	1	.55-1(h)					
Camphor oil (light)	CPO	18	0	D	11	Α	No	N/A	No					
Carbon tetrachloride	CBT	36	0	NA	111	Α	No	N/A	No					
Caustic potash solution	CPS	5 ²	0	NA	111	Α	No	N/A	.50-73, .55-1(j)					
Caustic soda solution	CSS	5 2	0	NA	111	Α	No	N/A	.50-73, .55-1(j)					
Chemical Oil (refined, containing phenolics)	COD	21	0	Ε	11	Α	No	N/A	.50-73					
Chlorobenzene	CRB	36	0	D	111	Α	Yes	1	No					
Chloroform	CRF	36	0	E	111	Α	Yes	3	No					
Coal tar naphtha solvent	NCT	33	0	D	111	Α	Yes	1	.50-73					
Creosote	CCW	/ 21 2	0	Ε	111	Α	Yes	1	No					
Cresols (all isomers)	CRS	21	0	Е	111	Α	Yes	1	No					
Cresylate spent caustic	CSC	5	0	NA	111	Α	No	N/A	.50-73, .56-1(b)					
Cresylic acid tar	CRX		0	Е	111	Α	Yes	1	.55-1(f)					
Crotonaldehyde	CTA	19 ²	0	С	11	Α	Yes	4	.55-1(h)					
Crude hydrocarbon feedstock (containing Butyraldehydes and Ethylpropyl acrolein)	CHG	9600	0	С	111	Α	No	N/A	No					
Cyclohexanone	CCH	18	0	D	111	Α	Yes	1	.56-1(a), (b)					
Cyclohexanone, Cyclohexanol mixture	CYX	And the Control	0	Ε	111	Α	Yes	1	.56-1 (b)					
Cyclohexylamine	CHA		0	D	111	Α	Yes	1	56-1(a). (b). (c). (g)					
Cyclopentadiene, Styrene, Benzene mixture	CSB		0	D	111	Α	Yes	1	.50-60, 56-1(b)					
iso-Decyl acrylate	IAI	14	0	E	111	Α	Yes	2	.50-70(a), .50-81(a), (b), .55-1(c)					

^{***} 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 28077

Official #: 1183307

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Shipyard: Trinity, Ashland City

Cargo Identification					Conditions of Carriage							
	Chem	Compat	Sub	1	11.0	Tank	Vapor R App'd	ecovery VCS	Consist Danier and in to 000 tot			
Name	Code	Group No	Chapter	Grade	Hull Type	Group	(Y or N)		Special Requirements in 46 CFR 151 General and Mat'ls of Construction			
Dichlorobenzene (all isomers)	DBX	36	0	Е	111	Α	Yes	3	.56-1(a), (b)			
1,1-Dichloroethane	DCH	36	0	С	111	Α	Yes	1	No			
2,2'-Dichloroethyl ether	DEE	41	0	D	11	Α	Yes	1	55-1(f)			
Dichloromethane	DCM	1 36	0	NA	111	Α	No	N/A	No			
2,4-Dichlorophenoxyacetic acid, diethanolamine salt solution	DDE	43	0	Е	111	Α	No	N/A	.56-1(a), (b), (c), (g)			
2,4-Dichlorophenoxyacetic acid, dimethylamine salt solution	DAD	0 1,2	0	Α	111	Α	No	N/A	.56-1(a), (b), (c), (g)			
2,4-Dichlorophenoxyacetic acid, triisopropanolamine salt solution	DTI	43 2	0	Ε	111	Α	No	N/A	.56-1(a), (b), (c), (g)			
1,1-Dichloropropane	DPB	36	0	С	111	Α	Yes	3	No			
1,2-Dichloropropane	DPP	36	0	С	111	Α	Yes	3	No			
1,3-Dichloropropane	DPC	36	0	С	111	Α	Yes	3	No			
1,3-Dichloropropene	DPU	15	0	D	11	Α	Yes	4	No			
Dichloropropene, Dichloropropane mixtures	DMX	15	0	С	11	Α	Yes	1	No			
Diethanolamine	DEA	8	0	Ε	111	Α	Yes	1	.55-1(c)			
Diethylamine	DEN	7	0	С	Ш	Α	Yes	3	.55-1(c)			
Diethylenetriamine	DET	7 2	0	Е	111	Α	Yes	1	.55-1(c)			
Diisobutylamine	DBU	7	0	D	111	Α	Yes	3	.55-1(c)			
Diisopropanolamine	DIP	8	0	E	111	Α	Yes	1	.55-1(c)			
Diisopropylamine	DIA	7	0	C	n	Α	Yes	3	55-1(c)			
N,N-Dimethylacetamide	DAC	10	0	E	(1)	Α	Yes	3	.56-1(b)			
Dimethylethanolamine	DMB		0	D	111	Α	Yes	1	.56-1(b). (c)			
Dimethylformamide	DMF	10	0	D	111	Α	Yes	1	.55-1(e)			
	DNA	7	0	C	11	A	Yes	3	.55-1(c)			
Di-n-propylamine	DOT	7	0	E	Ш	A	No	N/A	.56-1(b)			
Dodecyldimethylamine, Tetradecyldimethylamine mixture	DOS		0	#	11	A	No	N/A	No			
Dodecyl diphenyl ether disulfonate solution	MEA		0	# E	HI	A	Yes	1	.55-1(c)			
Ethanolamine	EAC		0	C	111	A	Yes	2	.50-70(a), .50-81(a), (b)			
Ethyl acrylate		14 7			11	A	No	N/A	.55-1(b)			
Ethylamine solution (72% or less)	EAN		0	A D	111	A	Yes	3	.55-1(b)			
N-Ethylbutylamine	EBA	7						1	.55-1(b)			
N-Ethylcyclohexylamine	ECC	7	0	D E	111 111	A	Yes Yes	1	No			
Ethylene cyanohydrin	ETC	20				A		1	.55-1(c)			
Ethylenediamine	EDA	7 2	0	D	())	A	Yes		No			
Ethylene dichloride	EDC	36 ²	0	С	111	A	Yes	1	No			
Ethylene glycol hexyl ether	EGH		0	E D/F	111	A	No	N/A	No			
Ethylene glycol monoalkyl ethers	EGC		0	D/E	111	A	Yes	1	No			
Ethylene glycol propyl ether	EGP		0	E	111	A	Yes		.50-70(a), .50-81(a), (b)			
2-Ethylhexyl acrylate	EAI	14	0	E	111	A	Yes	2	.50-70(a)			
Ethyl methacrylate	ETM		0	D/E	111	Α	Yes	2	No No			
2-Ethyl-3-propylacrolein	EPA	19 ²	0	E	111	A	Yes	1	.55-1(h)			
Formaldehyde solution (37% to 50%)	FMS		0	D/E	111	Α	Yes	1				
Furfural	FFA	19	0	E	111	Α	Yes	1	.55-1(h)			
Glutaraldehyde solution (50% or less)	GTA		0	NA	Ш	A	No	N/A	No			
Hexamethylenediamine solution	HMC		0	Ε	111	A	Yes	1	55-1(c)			
Hexamethyleneimine	HMI	7	0	С	11	Α	Yes	1 ·	56-1(b), (c)			
Hydrocarbon 5-9	HFN		0	С	111	A	Yes	1	50-70(a), .50-81(a), (b)			
Isoprene	IPR	30	0	Α	111	Α	No	N/A	.50-70(a) 50-81(a), (b)			
Isoprene, Pentadiene mixture	IPN		0	В	111	Α	No	N/A	50-70(a) .55-1(c)			
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)			
Mesityl oxide	MSC	18 2	0	D	111	Α	Yes	1	No			
Methyl acrylate	MAN	1 14	0	С	111	Α	Yes	2	.50-70(a), .50-81(a), (b)			

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Cargo Authority Attachment

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Vessel Name: KIRBY 28077

Official #: 1183307

Shipyard: Trinity, Ashland City

Group No Ch 30 8 9 1 14 9 30 7 2 42 30 36 7 2 8 8 7 9 5 0 1,2 0 1,2 0 1,2 0 1,2 0 1,2 1 30 36 7 41 9 36 36 7 41 9 36 36 36 2 7 7 2 5 6	Sub Chapter 6	C E E C D D D A NA E E E A C	Hull Type	Tank Group A A A A A A A A A A A A A A A A A A	Vapor Re App'd (Y or N) Yes Yes Yes Yes Yes Yes Yes Yes No	VCS Category 1 1 1 2 3 2 1 1	Special Requirements in 46 CFR 1 General and Mat'ls of Construction No .56-1(b), (c) .55-1(e) .50-70(a) .50-81(a), (b) .55-1(c) .50-70(a) .50-81(a). (b)
8 9 1 14 9 30 7 2 42 30 36 7 2 8 8 7 9 5 0 12 0 12 0 12 30 36 7 41 9 36 36 36 2 36 8 2 7 7 2 5 6		E E C D D D A NA E E E A		A A A A A A	Yes Yes Yes Yes Yes Yes Yes Yes No	1 1 2 3 2 1	.56-1(b), (c) .55-1(e) .50-70(a), .50-81(a), (b) .55-1(c)
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7 2 42 30 36 7 2 8 8 8 7 9 5 0 1.2 0 1.2 0 1.2 0 1.2 30 36 7 41 9 36 36 36 36 36 36 37 41 9 36 36 36 36 36 8 2 7 7 5 5	0 0 0 0 0 0 0 0 0 0 0	D A NA E E E A		A A A	Yes Yes No	1 1	.50-70(a), .50-81(a). (b)
7 2 42 30 36 7 2 8 8 8 7 9 5 0 1.2 0 1.2 0 1.2 0 1.2 30 36 7 41 9 36 36 36 36 36 36 37 41 9 36 36 36 36 36 8 2 7 7 5 5	0 0 0 0 0 0 0 0 0 0 0	D A NA E E E A	HI HI HI HI HI	A A A	Yes No	1	
30 36 7 2 8 8 7 9 5 0 1.2 0 1.2 0 1.2 0 1.2 0 1.2 30 36 7 41 9 36 36 36 2 36 8 2 7 7 2 5 6 7 7 8 8 8 8 8 8 8 8 8 8 8 8 8	0 0 0 0 0 0 0 0 0 0 0	A NA E E E	HI HI HI HI HI	A A A	Yes No		.55-1(c)
30 36 7 2 8 8 7 9 5 0 1.2 0 1.2 0 1.2 0 1.2 0 1.2 30 36 7 41 9 36 36 36 2 36 8 2 7 7 2 5 6 7 7 8 8 8 8 8 8 8 8 8 8 8 8 8	0 0 0 0 0 0 0	A NA E E E	101 114 111 111	A A	No		.50-81
36 7 2 8 8 8 7 9 5 0 1.2 0 1.2 0 1.2 0 1.2 30 36 7 41 9 36 36 36 2 36 8 2 7 7 2 5 5 6	0 0 0 0 0 0 0	NA E E E A	101 114 111 111	A A		N/A	.50-70(a), .50-81
7 2 8 8 8 7 9 5 0 1,2 5 0 1,2	0 0 0 0 0 0	E E A	111 111 111	Α		N/A	No
8 8 7 9 5 0 1.2 5 0 1.2 0 1.2 0 1.2 30 36 7 41 9 36 36 36 36 36 36 2 7 7 7 2 5 5 6	0 0 0 0 0 0	E E A	iII III		Yes	1	.55-1(e)
8 7 9 5 0 1.2 5 0 1.2 0 1.2 0 1.2 30 36 7 41 9 36 36 36 36 2 7 7 7 2 5 5 6	0 0 0 0 0	E A	Ш	Α	Yes	1	.55-1(c)
7 9 5 0 1.2 5 0 1.2 0 1.2 0 1.2 30 36 7 41 9 36 36 36 36 36 36 2 7 7 7 2 5 5 6	0 0 0 0	Α		A	Yes	1	.56-1(b). (c)
9 5 0 1,2 5 0 1,2 0 1,2 0 1,2 1 30 36 7 41 9 36 36 36 36 36 36 37 5 5 6	0 0 0		11	A	Yes	5	.55-1(c)
5 0 1,2 5 0 1,2 0 1,2 0 1,2 30 36 7 41 9 36 36 36 36 36 36 36 5 5 6	0 0 0	-	111	A	Yes	1	.55-1(e)
5 0 1,2 5 0 1,2 0 1,2 0 1,2 30 36 7 41 9 36 36 36 36 36 36 5 5 5 6	0		Ш	Α	No	N/A	.50-73, .55-1(j)
0 1.2 5 0 1.2 0 1.2 0 1.2 30 36 7 41 9 36 36 36 36 2 36 8 2 7 7 2 5 6	0	NA	Ш	Α	No	N/A	.50-73, .56-1(a), (b), (c)
5 0 12 0 12 0 12 30 36 7 41 9 36 36 36 36 2 36 7 7		NA	111	A	No	N/A	.50-73
0 12 0 12 0 12 30 36 7 41 9 36 36 36 36 2 36 7 7 7 2 5		NA	111	A	No	N/A	.50-73, .56-1(a), (b)
0 12 0 12 30 36 7 41 9 36 36 36 36 2 7 7 5 6	0	NA	Ш	A	Yes	1	.50-73, .55-1(b)
30 36 7 41 9 36 36 36 2 36 8 ² 7 7 ² 5 5	0	NA	Ш	Α	No	N/A	.50-73, .55-1(b)
30 36 7 41 9 36 36 36 2 36 8 ² 7 7 ² 5 5	0	NA	11	Α	No	N/A	.50-73, .55-1(b)
30 36 7 41 9 36 36 36 2 36 8 2 7 7 7 2 5 6	0	D	111	Α	Yes	2	No
36 7 41 9 36 36 36 2 36 8 2 7 7 7 2 5 6	0	D	111	Α	Yes	2	.50-70(a), .50-81(a), (b)
7 41 9 36 36 36 36 2 36 8 2 7 7 2 5 6	0	NA	Ш	Α	No	N/A	No
41 9 36 36 36 2 36 8 2 7 7 7 2 5 5	0	Е	111	Α	Yes	1	.55-1(c)
9 36 36 36 36 36 8 7 7 7 2 5 5	0	С	Ш	Α	Yes	1	.50-70(b)
36 36 36 2 36 8 7 7 7 2 5 5	0	E	П	Α	No	N/A	.50-73, .56-1(a), (b), (c), (g)
36 36 ² 36 8 ² 7 7 ² 5 5	0	E	111	Α	Yes	1	No
36 ² 36 8 ² 7 7 ² 5 5 6	0	NA	Ш	Α	Yes	1	.50-73, .56-1(a)
36 8 ² 7 7 ² 5 5	0	NA	Ш	Α	Yes	1	No
8 ² 7 7 ² 5 5	0	E	П	Α	Yes	3	.50-73, .56-1(a)
7 7 ² 5 5 6	0	E	Ш	Α	Yes	1	.55-1(b)
7 ² 5 5 6	0	C	II	Α	Yes	3	.55-1(e)
5 5 6							.55-1(b)
5 6	-			A		N/A	.56-1(a), (b), (c)
6	0		Ш	Α	No	N/A	.50-73, .56-1(a), (c).
-	0	NA	111	Α	No	N/A	.56-1(b)
						N/A	.50-73, .56-1(a), (c), (g)
						2	.50-70(a), .50-81(a), (b)
13	0		111	Α	No	N/A	.50-70(a) 50-81(a), (b)
13	0	D	111	Α	Yes	2	.50-70(a), .50-81, .56-1(a), (b), (c), (g)
13 13		0 0 0 0 0 0	O E O NA O NA O NA O C C D E O D	O E III O NA III O D III	O E III A O NA III A O NA III A O NA III A O NA III A O C III A O E III A O D III A	O E III A Yes O NA III A NO O C III A Yes O E III A NO O D III A Yes	O E III A Yes 1 O NA III A NO N/A O C III A Yes 2 O E III A NO N/A O D III A Yes 2

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Vessel Name: KIRBY 28077

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Shipyard: Trinity, Ashland City

Cargo Identification	Cargo Identification							Conditions of Carriage					
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	App'd	Recovery VCS Category	Special Requirements in 46 CFR 15 General and Mat'ls of Construction				
Amyl alcohol (iso-, n-, sec-, primary)	AAI	20	D	D		А	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)		20	D	E		Α	Yes	1					
Butyl acetate (all isomers)	BAX	34	D	D		Α	Yes	1					
Butyl alcohol (iso-)	IÁL	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	Е		Α	Yes	1					
Butyl toluene	BUE	32	D	D		Α	Yes	1					
Caprolactam solutions	CLS		D	E		Α	Yes	1					
Cyclohexane	СНХ		D	С		Α	Yes	1					
Cyclohexanol	CHN		D	E		Α	Yes	1					
,3-Cyclopentadiene dimer (molten)	CPD		D	D/E		Α	Yes	2					
p-Cymene	CMF		D	D		Α	Yes	1					
so-Decaldehyde	IDA	19	D	E		A	Yes	1					
n-Decaldehyde	DAL		D	E		A	Yes	1					
Decene	DCE		D	D		A	Yes	1					
	DAX		D	E		A	Yes	1					
Decyl alcohol (all isomers)	DBZ		D	E		A	Yes	1					
-Decylbenzene, see Alkyl(C9+)benzenes	DAA		D	E		A	Yes	1					
Diacetone alcohol	DPA		D	E		A	Yes	1					
ortho-Dibutyl phthalate	DEB		D	D		A	Yes	1					
Diethylbenzene	DEG		D	E		A	Yes	1					
Diethylene glycol	DBL		D	C		A	Yes	1					
Diisobutylene			D	D		Ā	Yes	1					
Diisobutyl ketone	DIK	18		E		A	Yes	1					
Diisopropylbenzene (all isomers)	DIX	32	D	E		A	Yes	1					
Dimethyl phthalate	DTL	34	D					1					
Dioctyl phthalate	DOF		D	E		A	Yes						
Dipentene	DPN		D	D		Α	Yes	1					
Diphenyl	DIL	32	D	D/E		A	Yes	1					
Diphenyl, Diphenyl ether mixtures	DDC		D	E		Α	Yes	1					
Diphenyl ether	DPE		D	{E}		Α	Yes	1					
Dipropylene glycol	DPG		D	E		Α	Yes	1					
Distillates: Flashed feed stocks	DFF		D	Ε		Α	Yes	1					
Distillates: Straight run	DSF	33	D	E		Α	Yes	1					
Oodecene (all isomers)	DOZ		D	D		Α	Yes	1					
Dodecylbenzene, see Alkyl(C9+)benzenes	DDE	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	E		Α	Yes	1					
Ethyl alcohol	EAL	20 2	D	C		Α	Yes	1					
Ethylbenzene	ETB	32	D	C		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	EBF	34	D	D		Α	Yes	1					
Ethyl cyclohexane	ECY	31	D	D		Α	Yes	1					

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Vessel Name: KIRBY 28077

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Shipyard: Trinity, Ashland City

Cargo Identification		Conditions of Carriage										
						Vapor Recovery						
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 15 General and Mat'ls of Construction			
Ethylene glycol	EGL	20 2	D	E		Α	Yes	1				
Ethylene glycol butyl ether acetate	EMA	34	D	Е		Α	Yes	1				
Ethylene glycol diacetate	EGY		D	Ε		Α	Yes	1				
Ethylene glycol phenyl ether	EPE		D	Е		Α	Yes	1				
Ethyl-3-ethoxypropionate	EEP		D	E		Α	Yes	1				
2-Ethylhexanol	EHX	20	D	Е		Α	Yes	1				
Ethyl propionate	EPR		D	С		Α	Yes	1				
Ethyl toluene	ETE		D	E		Α	Yes	1				
Formamide	FAM		D	E		Α	Yes	1				
Furfuryl alcohol	FAL	20 2	D	E		Α	Yes	1				
Gasoline blending stocks: Alkylates	GAK		D	A/C		Α	Yes	1				
Gasoline blending stocks: Reformates	GRF		D	A/C		A	Yes	1				
Gasolines: Automotive (containing not over 4.23 grams lead per gallon)	GAT		D	C		A	Yes	1				
Gasolines: Aviation (containing not over 4.86 grams of lead per gallon)	GAV		D	c		A	Yes	1				
Gasolines: Casinghead (natural)	GCS		D	A/C		A	Yes	1				
The state of the s	GPL		D	A/C		A	Yes	1				
Gasolines: Polymer	GSR		D	A/C		A		1				
Gasolines: Straight run	GCR						Yes					
Glycerine		9	D	E		A	Yes	1				
Heptane (all isomers), see Alkanes (C6-C9) (all isomers)	HMX HEP		D	С		A	Yes					
Heptanoic acid			. D	E		A	Yes	1				
Heptanol (all isomers)	HTX	20	D	D/E		A	Yes	1				
Heptene (all isomers)	HPX		D	C		A	Yes	2				
Heptyl acetate	HPE	34	D	D		, A	Yes	1				
Hexane (all isomers), see Alkanes (C6-C9)	HXS		D	B/C		A	Yes	1				
Hexanoic acid	HXO		D	E		A	Yes	1				
Hexanol	HXN		D	D		Α	Yes	1				
Hexene (all isomers)	HEX		D	С		Α	Yes	2				
Hexylene glycol	HXG		D	E		Α	Yes	1				
sophorone	IPH	18 ²	D	E		Α	Yes	1				
Jet fuel: JP-4	JPF	33	D	E		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	C		Α	Yes	1				
Methylamyl acetate	MAC	34	D	D		Α	Yes	1				
Methylamyl alcohol	MAA	20	D	D		Α	Yes	1				
Methyl amyl ketone	MAK		D	D		Α	Yes	1				
Methyl tert-butyl ether	MBE	41 2	D	С		Α	Yes	1				
Methyl butyl ketone	MBK	18	D	C		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		D	E		Α	Yes	1				
Mineral spirits	MNS	33	D	D		Α	Yes	1				
Myrcene	MRE		D	D		Α	Yes	1				
Naphtha: Heavy	NAG		D	#		Α	Yes	1				
Naphtha: Petroleum	PTN		D	#		Α	Yes	1				
Naphtha: Solvent	NSV		D	D		Α	Yes	1				

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Vessel Name: KIRBY 28077

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Shipyard: Trinity, Ashland City

Cargo Identification			ns of Carriage							
			_			_	Vapor Recovery			
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 Construction	
Naphtha: Stoddard solvent	NSS	33	D	D		Α	Yes	1		
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	E		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	C		Α	Yes	1		
Octanoic acid (all isomers)	OAY	4	D	E		Α	Yes	1		
Octanol (all isomers)	OCX	20 2	D	E		Α	Yes	1		
Octene (all isomers)	OTX	30	D	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		Α	Yes	1		
Oil, fuel: No. 4	OFR	33	D	D/E		Α	Yes	1		
Oil, fuel: No. 5	OFV	33	D	D/E		Α	Yes	1		
Oil, fuel: No. 6	OSX	33	D	Ε		Α	Yes	1		
Oil, misc: Crude	OIL	33	D	C/D		Α	Yes	1		
Oil, misc: Diesel	ODS	33	D	D/E		Α	Yes	1		
Oil, misc: Lubricating	OLB	33	D	Ε		Α	Yes	1		
Oil, misc: Residual	ORL	33	D	E		Α	Yes	1		
Oil, misc: Turbine	OTB	33	D	Ε		Α	Yes	1		
Pentane (all isomers)	PTY	31	D	Α		Α	Yes	5		
Pentene (all isomers)	PTX	30	D	Α		Α	Yes	5		
alpha-Pinene	PIO	30	D	D		Α	Yes	1		
peta-Pinene	PIP	30	D	D		Α	Yes	1		
Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether	PAG	40	D	E		Α	Yes	1		
Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether acetate	PAF	34	D	E		Α	Yes	1		
Polybutene	PLB	30	D	E		Α	Yes	1		
Polypropylene glycol	PGC	40	D	E		Α	Yes	1		
so-Propyl acetate	IAC	34	D	С		Α	Yes	1		
n-Propyl acetate	PAT	34	D	C		Α	Yes	1		
so-Propyl alcohol	IPA	20 2	D	C		Α	Yes	1		
n-Propyl alcohol	PAL	20 2	D	C		Α	Yes	1		
Propylbenzene (all isomers)	PBY	32	D	D		Α	Yes	1		
so-Propylcyclohexane	IPX	31	D	D		Α	Yes	1		
Propylene glycol	PPG	20 2	D	E		Α	Yes	1		
Propylene glycol methyl ether acetate	PGN	34	D	D		Α	Yes	1		
Propylene tetramer	PTT	30	D	D		Α	Yes	1		
Sulfolane	SFL	39	D	E		Α	Yes	1		
Tetraethylene glycol	TTG	40	D	E		Α	Yes	1		
Tetrahydronaphthalene	THN	32	D	E		Α	Yes	1		
Toluene	TOL	32	D	С		Α	Yes	1		
Tricresyl phosphate (less than 1% of the ortho isomer)	TCP	34	D	E		Α	Yes	1		
Triethylbenzene	TEB	32	D	E		Α	Yes	1		
Triethylene glycol	TEG	40	D	E		Α	Yes	1		
Triethyl phosphate	TPS	34	D	E		Α	Yes	1		
Trimethylbenzene (all isomers)	TDE	32	D	{D}		Α	Yes	1		
Timethylberizerie (all leemers)	TRE	02	_	(-)		5.5				
Trixylenyl phosphate	TRP		D	E		A	Yes	1 1		

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Vessel Name: KIRBY 28077 Official #: 1183307

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Shipyard: Trinity, Ashland City

Cargo Identifi		Conditions of Carriage								
	,				Vapor Recovery					
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 15 General and Mat'ls of Construction	
1-Undecyl alcohol	UND	20	D	E		Α	Yes	1		
(ylenes (ortho-, meta-, para-)	XLX	32	D	D		Α	Yes	1		



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Vessel Name: KIRBY 28077

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Shipyard: Trinity, Ashlan

Hull #: 4518

Explanation of terms & symbols used in the Table:

Cargo Identification

Chem Code

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

Compatability Group No

The cargo reactive group number assigned for compatibility determinations in 46 CFR Part 150 Tables I and II. In accordance with 46 CFR 150.130, the Person-in-Charge of

the barge is responsible for ensuring that the compatibility requirements of 46 CFR Part 150 are met. Cargoes must be checked for compatibility using the figures, tables, and appendices of 46 CFR 150 in conjunction with the assigned reactive group number.

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 (G-MSO-3), U.S. Coast Guard, 2100 Second Street, SW, Washington, DC 20593-0001. Telephone

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

Subchanter 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.
Flammable liquid cargoes, as defined in 46 CFR 30-10.22 A, B, C

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

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

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

VCS Category

Category 5

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

Category 1 (No additional VCS requirements above those for benzene, gasolines and crude oil) All requirements applying to the handling of oil and hazardous materials in Titles 33

and 46 Code of Federal Regulations (CFR) apply to these cargoes. Those specifically dealing with vapor control systems are in 33 CFR 155.750, 33 CFR 156.120, 33 CFR 156.170, 46 CFR 35.35 and 46 CFR 39. The cargo tank venting system calculations (46 CFR 39.20-11) and the pressure drop calculations (46 CFR 39.30-1(b)) must use appropriate friction factors, vapor densities and vapor growth rates.

(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 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. 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 1 cargoes. Consult the Marine Safety Center's VCS Guidelines for further information. This

requirement is in addition to the requirements of Category 1.

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

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

The cargo has not been evaluated/classified for use in vapor control systems none