

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

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

Certification Date: 17 Dec 2019
Expiration Date: 17 Dec 2024

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.

Vessel Name	*		Official Number	DMI	Number	Call Sign	Service	
KIRBY 27788			1256251				Tank B	arde
Hailing Port			Hull Material		Horsapower	Propulsion		
WILMINGTON	N, DE		Steel		•	•		
			2(86)					
UNITED STAT	TES							
Place Built			Delivery Date	Keel Laid Date	Gross Tons	Net Tons	DWT	Length
ASHLAND CI	TY, TN			220~4204	A R-1632	R-1632		R-300.0
!			17Nov2014	22001201	4 -	1-		10
UNITED STAT	TES							
Dwner				O ₁	oerator		,	· · · · · · · · · · · · · · · · · · ·
KIRBY INLANI					IRBY INLAND			
	RIVE SUITE 100	00		_	8350 Market S			
HOUSTON, TO		•			hannelview, TO INITED STATE			
OMILE OF A				ų.				
This vessel mu	ist be manned w	ith the fo	llowing licensed	and unlice	nsed Personne	I. Included in v	vhich there m	ust be
	boatmen, 0 Cert							
0 Masters	OL	censed M	ates 0 Chiel	Engineers	0.0	Dilers	"	······································
0 Chief Mates	OF	irst Class	Pilots 0 First	Assistant Eng	jineers			•
0 Second Mate	es OR	adio Offic	ers 0 Seco	nd Assistant I	Engineers			
0 Third Mates	0 A	ble Seame	en O'Third	Assistant En	gineers			
0 Master First	Class Pilot 0 C	rdinary Se	amen 0 Licen	sed Engineer	Ś			
0 Mate First CI	•	eckhands	0 Qual	ified Member	Engineer			
In addition, this	s vessel may car	rv 0 Pas	sengers, 0 Othe	r Persons i	n crew, 0 Perso	ons in addition	to crew, and	no Others. Total
Persons allowe	ed: 0	,			·			
Route Permi	tted And Condit	ions Of	Operation:					
	Bays, and So		*	d Cosetu	vise			
Also, in fair	r weather only,	not mo	re than twelve	e (12) mil	es from shore	between St.	Marks and C	arrabelle,
Florida.								
This vessel h	nas been grante	d a fre	sh water servi	ce examin	ation interva	l per 46 CFR	31.10-21(a)	(2), If this
warrant in and	erated in salt ntervals per 46	water m	are than 6 mar	ነዮክቁ ነክ Яክ	v iz montn be	erion, the ve-	5561 WASE NO	thopacced daring
change in sta	atus occurs.	OFR 31	,10 22(0)(1)		3		-	
This tank has	roe ie particir	atina i	n the Eighth A	. Ninth Co	ast Guard Dis	strict's Tank	Barge Strea	amlined Inspection
							-	•
	T PAGE FOR A							
With this Inspe	ection for Certific	ation hav	ing been compl	eted at Po	t Arthur, TX, U	INITED STATE	S, the Office	er in Charge, Marine
Inspection, Ma	arine Safety Unit	Port Arth	our certified the	vessel, in a	ll respects, is it	n conformity wi	th the applica	ible vessel inspectio
laws and the re	ules and regulati	ons pres	<u>cribed thereund</u>	er.				
<u></u>	Annual/Period	iic/Ke-In		<u>-</u>		ate issued by:		Ten Cor
Date	Zone	A/P/R	Signati		J. J	. ANDREW, C	DR, USCG,	By direction
10-5-2010	NOLUTRUP	12	BIRD H		Officer In Charge,			. \.
	New Orlean 5	$\perp P$		<u>'\</u>		Marine Safe	ety Unit Port	Arthur
(0-18-2022	NO CO TOSTP	<u> </u>	OMANNE HYC	-	Inspection Zona			
9-28-2023	New Malenns	1/	Seatt Fire	או' א				

OMB No. 2115-0517



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Program (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

17Dec2024

17Dec2014

Internal Structure

30Nov2024

17Dec2019

17Nov2014

--- 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

27855

Rarrels

Α

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	877	13.6
2 P/S	842	13.6
3 P/S	714	13.6

Loading Constraints - Stability

Hull Type	Maximum Load (short tons)	Maximum Draft (ft/in)	Max Density (lbs/gal)	Route Description
II	3759	10ft 0in	13.6	R, LBS, LC 0- 12
III	4636	11ft 9in	13.6	R, LBS, LC 0- 12

Conditions Of Carriage

Only those specified hazardous cargoes named in the Vessel's Cargo Authority Attachment (CAA), serial # C1-1403750, dated 22 October 2014, 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 greater than 0.5% benzene, the person in charge is responsible for ensuring the provisions of 46 CFR 197, Subpart C, are applied.

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

Vapor Control Authorization

Per 46 CFR 39, excluding Part 39.40, this vessel's vapor control system (VCS) has been inspected to the plans approved by Marine Safety Center letter serial # C1-1403750, dated 22 October 2014, and found acceptable for 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 3 psig P/V valve with Coast Guard approval 162.017/167/3. The cargo tank top is suitable for a MAWP of 3.5 psi.

Per 46 CFR 39.1017 and 39.5000(e), this vessel's VCS has been evaluated and approved for multi-breasted tandem loading



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with other vessels specifically approved to tandem load with this vessel.

Stability and Trim

Per 46 CFR 151.10-15(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 13.58 lbs/gal, may be carried as slack loads, but shall not exceed the tank weight limits as listed above.

--- Inspection Status ---

* -		T -	1-	-+
~ 1-1	II	Ta	nk	6.

Internal	Examir	nations

Tank ID Previous Last Next machinery deck - 17Nov2014 -

Cargo Tanks

Cargo Tanks						
	Internal Exam			External Exan	n	
Tank Id	Previous	Last	Next	Previous	Last	Next
1 P/S	_	17Nov2014	17Nov2024	_	-	-
2 P/S	-	17Nov2014	17Nov2024	-	-	-
3 P/S		17Nov2014	17Nov2024	-	-	-
			Hydro Test			
Tank Id	Safety Valves		Previous	Last	Next	
1 P/S	-		-	17Nov2014	-	
2 P/S	-		-	17Nov2014	=	
3 P/S	-		-	17Nov2014	-	
Boilers/Steam Piping						
	Hydro Inspect	ion		Mountings Ins	pection	
Boiler/Piping ID	Previous	Last	Next	Opened	Removed	
800SE-1410-1658	-	17Nov2014	-	-	-	

Fireside Inspection Waterside Inspection

Boiler/Piping ID Previous Last Next Previous Last Next 800SE-1410-1658 - 17Nov2014 - - - - -

Safety Valves

 Serial Number
 Location
 Bench Test
 Last
 Next

 SC06229
 AFT
 24Jul2014
 17Nov2014
 24Jul2019

---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

B-II



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END

OMB No. 2115-0517





Serial #:

C1-1403750 22-Oct-14

Certificate of Inspection

Cargo Authority Attachment

Vessel Name: KIRBY 27788 Official #: 1256251

Shipyard: Trinity Ashland City

Hull #: 5065

46 CFR 151 Tank Group Characteristics

Tank Group Information	Cargo I	dentificat	ion		Cargo		Tanks		Cargo Environmental Control			Fire	Special Require	ments			
Tnk Grp Tanks in Group	Density	Press.	Temp.	Hull Typ	Seg Tank	Туре	Vent	Gauge	Pipe Class	Cont	Tanks	Handling Space	Protection Provided	General	Materials of Construction	Elec Haz	Temp Cont
A #1 D/S #2 D/S #3 D/S	13.6	Atmos	Amb	- 11	111	Integral	DV	Closed	11	C 1	ND	NIA	Dortoble	40 4(B(4) E0 60	EE 4/h) (i) EC 4/-)	ND	

40-1(f)(1), .50-60, .50-70(a), .50-70(b), .50-73, .50-81(a), .50-81(b),

55-1(h), (j), 56-1(a), (c), (d), (e), (f), (g),

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 Identificatio	n						Conditions of Carriage					
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	Vapor Re App'd (Y or N)	ecovery 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		
Adiponitrile	ADN	37	0	Ε	П	Α	Yes	1	No	G		
Alkyl(C7-C9) nitrates	AKN	34 ²	0	NA	Ш	Α	No	N/A	.50-81, .50-86	G		
Anthracene oil (Coal tar fraction)	AHO	33	0	NA	11	Α	No	N/A	No	G		
Benzene	BNZ	32	0	С	Ш	Α	Yes	1	.50-60	G		
Benzene or hydrocarbon mixtures (having 10% Benzene or more)	ВНВ	32 ²	0	С	Ш	Α	Yes	1	.50-60	G		
Benzene, Toluene, Xylene mixtures (10% Benzene or more)	BTX	32	0	B/C	111	Α	Yes	1	.50-60	G		
Butyl acrylate (all isomers)	BAR	14	0	D	III	Α	Yes	2	.50-70(a), .50-81(a), (b)	G		
Butyl methacrylate	вмн	14	0	D	III	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)	СРО	18	0	D	Н	Α	No	N/A	No	G		
Carbon tetrachloride	СВТ	36	0	NA	Ш	Α	No	N/A	No	G		
Caustic potash solution	CPS	5 ²	0	NA	111	Α	No	N/A	.50-73, .55-1(j)	G		
Caustic soda solution	CSS	5 ²	0	NA	Ш	Α	No	N/A	.50-73, .55-1(j)	G		
Chemical Oil (refined, containing phenolics)	COD	21	0	E	11	Α	No	N/A	.50-73	G		
Chlorobenzene	CRB	36	0	D	111	Α	Yes	1	No	G		
Chloroform	CRF	36	0	NA	III	Α	Yes	3	No	G		
Coal tar naphtha solvent	NCT	33	0	D	III	Α	Yes	1	.50-73	G		
Creosote	CCW	21 2	0	E	III	Α	Yes	1	No	G		
Cresols (all isomers)	CRS	21	0	E	III	Α	Yes	1	No	G		
Crotonaldehyde	CTA	19 ²	0	С	11	Α	Yes	4	.55-1(h)	G		
Crude hydrocarbon feedstock (containing Butyraldehydes and Ethylpropyl acrolein)	CHG		0	С	111	Α	Yes	1	No	G		
1,1-Dichloroethane	DCH	36	0	С	Ш	Α	Yes	1	No	G		
Dichloromethane	DCM	36	0	NA	III	Α	Yes	5	No	G		
1,1-Dichloropropane	DPB	36	0	С	111	Α	Yes	3	No	G		
1,2-Dichloropropane	DPP	36	0	С	III	Α	Yes	3	No	G		
1,3-Dichloropropane	DPC	36	0	С	111	Α	Yes	3	No	G		
1,3-Dichloropropene	DPU	15	0	D	II	Α	Yes	4	No	G		
Dichloropropene, Dichloropropane mixtures	DMX	15	0	С	11	Α	Yes	1	No	G		
Dodecyl diphenyl ether disulfonate solution	DOS	43	0	#	П	Α	No	N/A	No	G		
EE Glycol Ether Mixture	EEG	40	0	D	III	Α	No	N/A	No	G		
Ethyl acrylate	EAC	14	0	С	111	Α	Yes	2	.50-70(a), .50-81(a), (b)	G		
Ethylene cyanohydrin	ETC	20	0	E	III	Α	Yes	1	No	G		



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Shipyard: Trinity Ashland City

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Cargo Identification	n					Conditions of Carriage					
	2				l		-	Recovery			
Name	Chem	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	App'd (Y or N)	VCS Category	Special Requirements in 46 CFR 151 General and Mat'ls of	Insp. Period	
Ethylene dichloride	EDC	36 ²	0	С	Ш	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	Ш	Α	Yes	1	No	G	
Ethylene glycol propyl ether	EGP	40	0	E	Ш	Α	Yes	1	No	G	
2-Ethylhexyl acrylate	EAI	14	0	E	Ш	Α	Yes	2	.50-70(a), .50-81(a), (b)	G	
Ethyl methacrylate	ETM	14	0	D/E	111	Α	Yes	2	.50-70(a)	G	
2-Ethyl-3-propylacrolein	EPA	19 ²	0	E	Ш	Α	Yes	1	No	G	
Formaldehyde solution (37% to 50%)	FMS	19 ²	0	D/E	III	Α	Yes	1	.55-1(h)	G	
Furfural	FFA	19	0	D	111	Α	Yes	1	.55-1(h)	G	
Glutaraldehyde solution (50% or less)	GTA	19	0	NA	111	Α	No	N/A	No	G	
Hydrocarbon 5-9	HFN		0	С	Ш	Α	Yes	1	.50-70(a), .50-81(a), (b)	G	
Isoprene	IPR	30	0	Α	111	Α	Yes	7	.50-70(a), .50-81(a), (b)	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	Ш	Α	Yes	1	No	G	
Methyl acrylate	MAM	14	0	С	Ш	Α	Yes	2	.50-70(a), .50-81(a), (b)	G	
Methylcyclopentadiene dimer	MCK	30	0	С	Ш	Α	Yes	1	No	G	
Methyl methacrylate	MMM	14	0	С	111	Α	Yes	2	.50-70(a), .50-81(a), (b)	G	
alpha-Methylstyrene	MSR	30	0	D	111	Α	Yes	2	.50-70(a), .50-81(a), (b)	G	
1- or 2-Nitropropane	NPM	42	0	D	111	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	
Sodium acetate, Glycol, Water mixture (3% or more Sodium Hydroxide)	SAP	5	0		Ш	Α	No	N/A	.50-73, .55-1(j)	G	
Sodium chlorate solution (50% or less)	SDD	0 1,2	0	NA	111	Α	No	N/A	.50-73	G	
Styrene (crude)	STX	30	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	111	Α	No	N/A	No	G	
Tetrahydrofuran	THF	41	0	С	111	Α	Yes	1	.50-70(b)	G	
1,2,4-Trichlorobenzene	тсв	36	0	Е	Ш	Α	Yes	1	No	G	
1,1,2-Trichloroethane	ТСМ	36	0	NA	111	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	E	Ш	Α	Yes	3	.50-73, .56-1(a)	G	
Trisodium phosphate solution	TSP	5	0	NA	III	Α	No	N/A	.50-73, .56-1(a), (c).	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	13	0	С	111	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	
Subchapter D Cargoes Authorized for Vapor Contro		40.3	_	_			· ·				
Acetone	ACT	18 ²	D	C		A	Yes	1			
Acetophenone	ACP	18	D	E		Α	Yes	1			
Alcohol(C12-C16) poly(1-6)ethoxylates	APU	20	D	E		A	Yes	1			
Alcohol(C6-C17)(secondary) poly(7-12)ethoxylates	AEB	20	D	E		A	Yes	1			
Amyl acetate (all isomers)	AEC	34	D	D		<u> </u>	Yes	1			
Amyl alcohol (iso-, n-, sec-, primary)	AAI	20	D	D	-	A	Yes	1			
Benzyl alcohol	BAL	21		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)	BFX	20	D	E		Α	Yes	1			
Butyl acetate (all isomers)	BAX	34	D	D		A	Yes	1			



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 Shipyard:
 Trinity Ashland City

 Official #:
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 Hull #:
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Cargo Identification	n							Condi	tions of Carriage	
	T	T						Recovery		$\overline{}$
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	App'd (Y or N)	VCS	Special Requirements in 46 CFR 151 General and Mat'ls of	Insp. Period
Butyl alcohol (iso-)	IAL	20 ²	D	D		Α	Yes	1		
Butyl alcohol (n-)	BAN	20 ²	D	D		Α	Yes	1		
Butyl alcohol (sec-)	BAS	20 ²	D	С		Α	Yes	1		
Butyl alcohol (tert-)	BAT	20 ²	D	С		Α	Yes	1		
Butyl benzyl phthalate	BPH	34	D	E		Α	Yes	1		
Butyl toluene	BUE	32	D	D		Α	Yes	1		
Caprolactam solutions	CLS	22	D	E		Α	Yes	1		
Cyclohexane	CHX	31	D	С		Α	Yes	1		
Cyclohexanol	CHN	20	D	E		Α	Yes	1		
1,3-Cyclopentadiene dimer (molten)	CPD	30	D	D/E		Α	Yes	2		
p-Cymene	CMP	32	D	D		Α	Yes	1		
iso-Decaldehyde	iDA	19	D	E		Α	Yes	1		
n-Decaldehyde	DAL	19	D	Ε		Α	Yes	1		
Decene	DCE	30	D	D		Α	Yes	1		
Decyl alcohol (all isomers)	DAX	20 ²	D	Е		Α	Yes	1		
n-Decylbenzene, see Alkyl(C9+)benzenes	DBZ	32	D	Е		Α	Yes	1		
Diacetone alcohol	DAA	20 ²	D	D		Α	Yes	1		
ortho-Dibutyl phthalate	DPA	34	D	Е		Α	Yes	1		
Diethylbenzene	DEB	32	D	D		Α	Yes	1		
Diethylene glycol	DEG	40 ²	D	E		Α	Yes	1		
Diisobutylene	DBL	30	D	С		Α	Yes	1		
Diisobutyl ketone	DIK	18	D	D		Α	Yes	1		
Diisopropylbenzene (all isomers)	DIX	32	D	E		Α	Yes	1		
Dimethyl phthalate	DTL	34	D	E		Α	Yes	1		
Dioctyl phthalate	DOP	34	D	E		Α	Yes	1		
Dipentene	DPN	30	D	D		Α	Yes	1		
Diphenyl	DIL	32	D	D/E		Α	Yes	1		
Diphenyl, Diphenyl ether mixtures	DDO	33	D	E		Α	Yes	1		
Diphenyl ether	DPE	41	D	{E}		Α	Yes	1		
Dipropylene glycol	DPG	40	D	E		Α	Yes	1		
Distillates: Flashed feed stocks	DFF	33	D	E		Α	Yes	1		
Distillates: Straight run	DSR	33	D	E		Α	Yes	1		
Dodecene (all isomers)	DOZ	30	D	D		Α	Yes	1		
Dodecylbenzene, see Alkyl(C9+)benzenes	DDB	32	D	Е		Α	Yes	1		
2-Ethoxyethyl acetate	EEA	34	D	D		Α	Yes	1		
Ethoxy triglycol (crude)	ETG	40	D	Е		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	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 ²	D	E		Α	Yes	1		
Ethylene glycol butyl ether acetate	EMA	34	D	E		Α	Yes	1		
Ethylene glycol diacetate	EGY	34	D	E		Α	Yes	1		
Ethylene glycol phenyl ether	EPE	40	D	E		Α	Yes	1		
Euritorio giyoot prioriyi otriol										



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Shipyard: Trinity Ashland City

Cargo Identification	n							Condi	tions of Carriage	
		T		T				Recovery		
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	App'd (Y or N)	VCS	Special Requirements in 46 CFR 151 General and Mat'ls of	Insp. Period
Ethyl-3-ethoxypropionate	EEP	34	D	D		Α	Yes	1		
2-Ethylhexanol	EHX	20	D	E		Α	Yes	1		
Ethyl propionate	EPR	34	D	С		Α	Yes	1		
Ethyl toluene	ETE	32	D	D		Α	Yes	1		
Formamide	FAM	10	D	E		Α	Yes	1		
Furfuryl alcohol	FAL	20 ²	D	Ε		Α	Yes	1		
Gasoline blending stocks: Alkylates	GAK	33	D	A/C		Α	Yes	1		
Gasoline blending stocks: Reformates	GRF	33	D	A/C		Α	Yes	1		
Gasolines: Automotive (containing not over 4.23 grams lead per gallon)	GAT	33	D	С		Α	Yes	1		
Gasolines: Aviation (containing not over 4.86 grams of lead per gallon)	GAV	33	D	С		Α	Yes	1		
Gasolines: Casinghead (natural)	GCS	33	D	A/C		Α	Yes	1		
Gasolines: Polymer	GPL	33	D	A/C		Α	Yes	1		
Gasolines: Straight run	GSR	33	D	A/C		Α	Yes	1		
Glycerine	GCR	20 ²	D	Е		Α	Yes	1		
Heptane (all isomers), see Alkanes (C6-C9) (all isomers)	HMX	31	D	С		Α	Yes	1		
Heptanoic acid	HEP	4	D	E		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	Ε		Α	Yes	1		
Hexane (all isomers), see Alkanes (C6-C9)	HXS	31 ²	D	B/C		Α	Yes	1		
Hexanoic acid	HXO	4	D	Ε		Α	Yes	1		
Hexanol	HXN	20	D	D		Α	Yes	1		
Hexene (all isomers)	HEX	30	D	С		Α	Yes	2		
Hexylene glycol	HXG	20	D	E		Α	Yes	1		
Isophorone	IPH	18 ²	D	Ε		Α	Yes	1		
Jet fuel: JP-4	JPF	33	D	Е		Α	Yes	1		
Jet fuel: JP-5 (kerosene, heavy)	JPV	33	D	D		Α	Yes	1		
Kerosene	KRS	33	D	D		Α	Yes	1		
Methyl acetate	MTT	34	D	D		Α	Yes	1		
Methyl alcohol	MAL	20 ²	D	С		Α	Yes	1		
Methylamyl acetate	MAC	34	D	D		Α	Yes	1		
Methylamyl alcohol	MAA	20	D	D		Α	Yes	1		
Methyl amyl ketone	MAK	18	D	D		Α	Yes	1		
Methyl tert-butyl ether	MBE	41 ²	D	С		Α	Yes	1		
Methyl butyl ketone	MBK	18	D	С		Α	Yes	1		
Methyl butyrate	MBU	34	D	С		Α	Yes	1		
Methyl ethyl ketone	MEK	18 ²	D	С		Α	Yes	1		
Methyl heptyl ketone	MHK	18	D	D		Α	Yes	1		
Methyl isobutyl ketone	MIK	18 ²	D	С		Α	Yes	1		
Methyl naphthalene (molten)	MNA	32	D	Е		Α	Yes	1		
Mineral spirits	MNS	33	D	D		Α	Yes	1		
Myrcene	MRE	30	D	D		Α	Yes	1		
Naphtha: Heavy	NAG	33	D	#		Α	Yes	1		
Naphtha: Petroleum	PTN	33	D	#		Α	Yes	1		
Naphtha: Solvent	NSV	33	D	D		Α	Yes	1		
Naphtha: Stoddard solvent	NSS	33	D	D		Α	Yes	1	¥	
Naphtha: Varnish makers and painters (75%)	NVM	33	D	С		Α	Yes	1		



Dated:

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Cargo Authority Attachment

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Vessel Name: KIRBY 27788

Official #: 1256251

Shipyard: Trinity Ashland City

Cargo Identifica	tion							Condi	tions of Carriage	
							-	Recovery		
Name	Chem	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	App'd (Y or N)	VCS Category	Special Requirements in 46 CFR 151 General and Mat'ls of	Insp. Period
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	The state of the s	
Octane (all isomers), see Alkanes (C6-C9)	OAX	31	D	С		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	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		Α	Yes	1		
Oil, fuel: No. 6	OSX	33	D	E		A	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: Gas, high pour	OGP	33	D	E		Α	Yes	1		
Oil, misc: Lubricating	OLB	33	D	E		Α	Yes	1		
Oil, misc: Residual	ORL	33	D	E		A	Yes	1		
Oil, misc: Turbine	ОТВ	33	D	E		A	Yes	1		
Pentane (all isomers)	PTY	31	D	A		A	Yes	5		
Pentene (all isomers)	PTX	30	D	A		Α	Yes	5		
n-Pentyl propionate	PPE	34	D	D		A	Yes	1		
alpha-Pinene	PIO	30	D	D		Α	Yes	1		
beta-Pinene	PIP	30	D	D		A	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		A	Yes	1		
	PLB	30	D	E		A	Yes	1		
Polybutene Relypropulane glygol	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			Yes	1		
iso-Propyl alcohol		20 ²		C			Yes	1		
n-Propyl alcohol	PAL		D	D		Α	Yes	1		
Propylbenzene (all isomers)	PBY	32	D			Α	-			
iso-Propylcyclohexane	IPX	31	D	D		Α	Yes	1		
Propylene glycol	PPG	20 ²	D	E		A .	Yes	1		
Propylene glycol methyl ether acetate	PGN	34	D	D		A	Yes	1		
Propylene tetramer	PTT	30		<u>D</u>		A	Yes	1		
Sulfolane	SFL	39	D	E		A	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		A	Yes	1		
Triethylene glycol	TEG	40	D	E		Α	Yes	1		
Triethyl phosphate	TPS	34	D	E		Α	Yes	1		
Trimethylbenzene (all isomers)	TRE	32	D	{D}		Α	Yes	1		
Trixylenyl phosphate	TRP	34	D	E		Α	Yes	1		



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Certificate of Inspection

Cargo Authority Attachment

Vessel Name: KIRBY 27788

Official #: 1256251

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Shipyard: Trinity Ashland City

Cargo Identification						Conditions of Carriage				
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	App'd		Special Requirements in 46 CFR 151 General and Mat'ls of	Insp. Period
Undecene	UDC	30	D	D/E		Α	Yes	1		
1-Undecyl alcohol	UND	20	D	E		Α	Yes	1	***************************************	
Xylenes (ortho-, meta-, para-)	XLX	32	D	D		Α	Yes	1	VIII.	



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

Serial #: C1-1403750

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Vessel Name: KIRBY 27788 Official #: 1256251

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Shipyard: Trinity Ashland

Hull #: 5065

Explanation of terms & symbols used in the Table:

Cargo Identification

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 nat. 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 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

, B, C Note 4

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

The flammability/combustibility grade of these cargoes may vary depending upon the flashpoint and Reid vapor pressure. The Person-in-Charge shall verify the

cargo grade based on Manufacturers data and ensure that the barge is authorized for carriage of that grade of cargo. Those subchapter O cargoes which are not classified as a flammable or combustible liquid.

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

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

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

Conditions of Carriage

Vapor Recoven 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