For shipe	Ce	rtí	Departme	America land Securi ast Guard <b>Insp</b> 74 as amended, re	ate: 22 Nov 2022 5: 22 Nov 2027 JMENT.			
Vestel Name	<u></u>	Off	cial Number	IMO Nu	mþør	Cạil Sign	ង១ហុែនន	~~~~
KIRBY 10243		12	(41337				Tank E	3argə
	**************************************	***	<b>₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩</b>	i nangajatamindarik mikiningan patan		**************************************	<del>ayk y - a al al ta lat a staff a spin a sort ti hy y a a</del>	
Halling Port WILMINGTON, DE			Hull Melanel Steel	Ho	naebo/nex	Populsi	¢η	
UNITED STATES								
Place Bulli Ashland City, TN		ستاری برای تورین از با با با با با	Defivery Date 12Sep2012	Keal Laid Date 22Aug2012	Gross Tons R-705	Nul Tons R-ZQ() L	DWT	Letigh. R-200.0 1-0
UNITED STATES					₿m.'	r		
Owner KIRBY INLAND MA 55 WAUGH DR ST HOUSTON, TX 770 UNITED STATES	E 1000 107	********	مراجع می کرد. مراجع ایر ایران می ایران می کرد ا مراجع می کرد ایران م	Kii 18 Ci Ut	RBY INLAND 350 MARKE JANNELVIE VITED STAT	t St. W, TX 775 Es	30	
This vessel must be 0 Certified Lifeboat	menned with men, Q Certifi	n the follo ed Tank	wing licensed ermen, 0 HSC	and unlicen Type Ratin	g, and u cavi		d in Which there i ators.	Just no
Q Masters	0 Lice	anad Mal		Engineera		Ollers		
0:Chief Maleo		i Çlasa Pi		Assistant Engli				
0-Second Males		dia Officen		nd Assistant E				
0 Third Mates		e Seemen		l Assistant Eng				
0 Master First Class		linary Sea		nsed Engineers				
0 Mate First Class I	liots: 0.De	ekhanda	0 Qual	Higd Member E	ngineer Paris		liNon to oraw and	I no Others Total
In addition, this ves Persons allowed: (	sel may carry	r0 Passe	ongers, 0 Othe	r forsons in	I CLOM' O LOU	sons in auc		4-10-2-1
Route Permitted	s, and Sou	unds	6	or more the	in twolves (1	2) milos	from share bett	ieen St. Marks and
Carraballe, Flor	ida. is participa	ting in	the Eighth-	Ninch Coast	Guard Dist	ricc's Ta	nk Barge Atteat	nlined Inspection th its Tank Barge
***SEE NEXT P	AGE FOR A	DDITIO	NAL CERTIF	ICATE INFO	ORMATION	***	March 16 - Million	h Charge Mailine
Inanantion Matiste	n-Galveston	centitieu	(Tig agasei, 111)	plated at Fra all respects,	eport, TX, UI ls in conform	ity with the	applicable vesse	r in Charge, Marine Inspection laws and
the rules and requ	nnual/Period	ic/Ra-Ins	pection		This certifi	cate Issued	N CDR, USCG,	BY DIRECTION
Date	Zone	A/P/R	Signa				A REAL PROPERTY AND A REAL PROPERTY A REAL PROPERTY AND A REAL PROPERTY A REAL PROPERTY A REAL PROPERTY A REAL PROPERTY AND A REAL PROPERTY AND A REAL	But I. Sut IF Shearbot I Courts II.
	JOLA	A	Therephy I	GAMES Acres			nion Houston-Galvest	<u>an</u>
			I /		Inspection Zone	9		



United States of America Department of Homeland Security United States Coast Guard Certification Date: 22 Nov 2022 Expiration Date: 22 Nov 2027

Certificate of Inspection

Vessel Name: KIRBY 10243

Hull Exam	s										
Exam Type	Next	Exam	Last Exam	Prior Ex	am						
DryDock	31Oc	t2027	16Oct2017	12Sep2	012						
Internal Structure	e 310c	t2025	22Nov2022	03Oct20	Oct2017						
Liquid/Ga	s/Solid Cargo	Authority/Condit	ions								
Authorization:	FLAMMABLE / CO	MBUSTIBLE LIQUIDS	AND SPECIFIED HAZARDOUS CARGOES								
Total Capacity	Units	Highest Grade Type	e Part151 Regulate	d Part153 Regulated	Part154 Regulated						
10300	Barrels	А	Yes	No	No						
*Hazardous Bul	k Solids Authority*										
Not Authorized											
*Loading Const	raints - Structural*										
Tank Number		Max Cargo Weight	per Tank (short tons)	Maximum Dens	ity (lbs/gal)						
1		763		13.57							
2		703		13.57							
3		698		13.57							
*Loading Const	traints - Stability*										
Hull Type	Maximum Load (short tons)	Maximum Draft (ft/in)	Max Density (lbs/gal)	Route Description							
- 111	1551	9ft 6in	11.03	R, LBS							
111	1497	9ft 3in	12.08	R, LBS							
111	1443	9ft 0in	12.91	R, LBS							
111	1390	8ft 9in	13.57	R, LBS							
Ш	1443	9ft 0in	9.99	R, LBS							
П	1390	8ft 9in	11.66	R, LBS							
н	1336	8ft 6in	12.41	R, LBS							
П	1283	8ft 3in	12.83	R, LBS							
I	1229	8ft 0in	13.33	R, LBS							
П	1176	7ft 9in	13.57	R, LBS							

#### \*Conditions Of Carriage\*

Only those cargoes named in the vessel's cargo authority attachment Marine Safety Center letter Serial # C1-1202419 dated May 11, 2012, may be carried and then only in the tanks indicated.

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

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 numbers from the "Compat Group No" column listed in the vessel's cargo authority attachment.



United States of America Department of Homeland Security United States Coast Guard Certification Date: 22 Nov 2022 Expiration Date: 22 Nov 2027

Certificate of Inspection

Vessel Name: KIRBY 10243

The maximum design density of cargo which may be filled to the tank top is 9.99 lbs/gal.

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.

\*Vapor Control Authorization\*

In accordance with 46 CFR part 39, excluding part 39.40, this vessel's vapor control system has been inspected to the plans approved by MSC letter Serial # C1-1202419 dated May 11, 2012, and has been 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 6 psig P/V valve with Coast Guard approval 162.017/167/4. The cargo tank top is suitable for a maximum allowable working pressure (MAWP) of 6.50 psig.

#### --- Inspection Status ---

#### \*Fuel Tanks\* Internal Examinations Tank ID Previous Last Next Machinery Deck 12Sep2012 \*Cargo Tanks\* Internal Exam External Exam Tank Id Previous Last Next Previous Last Next 1 12Sep2012 03Oct2017 310ct2027 03Oct2017 22Nov2022 31Oct2025 12Sep2012 2 03Oct2017 31Oct2027 03Oct2017 22Nov2022 31Oct2025 3 12Sep2012 03Oct2017 31Oct2027 03Oct2017 22Nov2022 31Oct2025 Hydro Test Tank Id Safety Valves Previous Last Next 1 12Sep2012 2 12Sep2012 3 12Sep2012

#### ---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**

Vessel Name: KIRBY 10243

Official #: 1241337

Shipyard: Trinity Marine, Ashland City

Hull #: 4845

46 CFR 151 Tank	Group (	Chara	cterist	tics													
Tank Group Information	Cargo Identification Tanks Cargo			Cargo Environmental Transfer Control F			Fire	Special Requirements									
Tnk Grp Tanks in Group	Density	Press.	Temp.	Hull Typ	Seg	Туре	Vent	Gauge	Pipe Class	Cont	Tanks	Handling Space	Protection Provided	General	Materials of Construction	Elec Haz	Temp Cont
A #1, #2, #3	13.6	Atmos.	Elev	II	1ii 2ii	Integral Gravity	PV	Closed	II	G-1	NR	NA	Portable	40-1(f)(1), .50-60, .50-70(a), .50- 70(b), .50-73, .50- 81(a), .50-81(b),	55-1(b), (c), (e), (f), (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						
							Vapor R	ecovery	-			
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	App'd (Y or N)	VCS Category	Special Requirements in 46 CFR 151 General and Mat'ls of	Insp. Period		
Authorized Subchapter O Cargoes												
Acetonitrile	ATN	37	0	С	III	А	Yes	3	No	G		
Acrylonitrile	ACN	15 <sup>2</sup>	0	С	П	А	Yes	4	.50-70(a), .55-1(e)	G		
Adiponitrile	ADN	37	0	Е	Ш	А	Yes	1	No	G		
Alkyl(C7-C9) nitrates	AKN	34 <sup>2</sup>	0	NA	III	А	No	N/A	.50-81, .50-86	G		
Aminoethylethanolamine	AEE	8	0	Е	III	А	Yes	1	.55-1(b)	G		
Ammonium bisulfite solution (70% or less)	ABX	43 <sup>2</sup>	0	NA	III	А	No	N/A	.50-73, .56-1(a), (b), (c)	G		
Ammonium hydroxide (28% or less NH3)	AMH	6	0	NA	III	А	No	N/A	.56-1(a), (b), (c), (f), (g)	G		
Anthracene oil (Coal tar fraction)	AHO	33	0	NA	П	А	No	N/A	No	G		
Benzene	BNZ	32	0	С	III	А	Yes	1	.50-60	G		
Benzene or hydrocarbon mixtures (having 10% Benzene or more)	BHB	32 <sup>2</sup>	0	С	III	А	Yes	1	.50-60	G		
Benzene or hydrocarbon mixtures (containing Acetylene and 10% Benzene or more)	BHA	32 <sup>2</sup>	0	С	III	А	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	А	Yes	1	.50-60	G		
Butyl acrylate (all isomers)	BAR	14	0	D	III	А	Yes	2	.50-70(a), .50-81(a), (b)	G		
Butyl methacrylate	BMH	14	0	D	III	А	Yes	2	.50-70(a), .50-81(a), (b)	G		
Butyraldehyde (all isomers)	BAE	19	0	С	III	А	Yes	1	.55-1(h)	G		
Camphor oil (light)	CPO	18	0	D	П	А	No	N/A	No	G		
Carbon tetrachloride	CBT	36	0	NA	III	А	No	N/A	No	G		
Caustic potash solution	CPS	5 <sup>2</sup>	0	NA	III	А	No	N/A	.50-73, .55-1(j)	G		
Caustic soda solution	CSS	5 <sup>2</sup>	0	NA	III	А	No	N/A	.50-73, .55-1(j)	G		
Chemical Oil (refined, containing phenolics)	COD	21	0	Е	П	А	No	N/A	.50-73	G		
Chlorobenzene	CRB	36	0	D	III	А	Yes	1	No	G		
Chloroform	CRF	36	0	NA	Ш	А	Yes	3	No	G		
Coal tar naphtha solvent	NCT	33	0	D	Ш	А	Yes	1	.50-73	G		
Coal tar pitch (molten)	CTP	33	0	Е	Ш	А	No	N/A	.50-73	G		
Creosote	CCW	21 <sup>2</sup>	0	Е	Ш	А	Yes	1	No	G		
Cresols (all isomers)	CRS	21	0	Е	Ш	А	Yes	1	No	G		
Cresylate spent caustic	CSC	5	0	NA	111	А	No	N/A	.50-73, .55-1(b)	G		
Cresylic acid tar	CRX		0	Е	111	А	Yes	1	.55-1(f)	G		
Crotonaldehyde	CTA	19 <sup>2</sup>	0	С	П	А	Yes	4	.55-1(h)	G		
Crude hydrocarbon feedstock (containing Butyraldehydes and Ethylpropyl acrolein)	CHG		0	С	111	А	No	N/A	No	G		
Cyclohexanone	CCH	18	0	D	Ш	А	Yes	1	.56-1(a), (b)	G		



### Certificate of Inspection Cargo Authority Attachment

Vessel Name: KIRBY 10243

Official #: 1241337

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Shipyard: Trinity Marine, Ashland City Hull #: 4845

Cargo Identification	n						(	Condit	tions of Carriage	
<b>U</b>								ecovery	0	
Name	Chem Code	Compat Group No 18 <sup>2</sup>	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 .56-1 (b)	Insp. Period G
Cyclohexanone, Cyclohexanol mixture	CYX		0	E		A	Yes	1	.56-1(a), (b), (c), (g)	G
Cyclohexylamine	CHA	7	0	D		A	Yes	1	.50-60, .56-1(b)	G
Cyclopentadiene, Styrene, Benzene mixture	CSB	30	0	D		A	Yes	1	.50-70(a), .50-81(a), (b), .55-1(c)	G
iso-Decyl acrylate	IAI	14	0	E		A	Yes	2	.56-1(a), (b)	G
Dichlorobenzene (all isomers)	DBX	36	0	E	III 	A	Yes	3		
1,1-Dichloroethane	DCH	36	0	С		A	Yes	1	No	G
2,2'-Dichloroethyl ether	DEE	41	0	D	II	Α	Yes	1	.55-1(f)	G
Dichloromethane	DCM	36	0	NA	III	A	Yes	5	No	G
2,4-Dichlorophenoxyacetic acid, diethanolamine salt solution	DDE	43	0	E	III	A	No	N/A	.56-1(a), (b), (c), (g)	G
2,4-Dichlorophenoxyacetic acid, dimethylamine salt solution	DAD	0 1,2		A	III	A	No	N/A	.56-1(a), (b), (c), (g)	G
2,4-Dichlorophenoxyacetic acid, triisopropanolamine salt solution	DTI	43 <sup>2</sup>	0	E		A	No	N/A	.56-1(a), (b), (c), (g)	G
1,1-Dichloropropane	DPB	36	0	С		A	Yes	3	No	G
1,2-Dichloropropane	DPP	36	0	С	111	A	Yes	3	No	G
1,3-Dichloropropane	DPC	36	0	С		Α	Yes	3	No	G
1,3-Dichloropropene	DPU	15	0	D	II	A	Yes	4	No	G
Dichloropropene, Dichloropropane mixtures	DMX	15	0	С	Ш	Α	Yes	1	No	G
Diethanolamine	DEA	8	0	Е	III	Α	Yes	1	.55-1(c)	G
Diethylamine	DEN	7	0	С	III	Α	Yes	3	.55-1(c)	G
Diethylenetriamine	DET	7 <sup>2</sup>	0	Е		Α	Yes	1	.55-1(c)	G
Diisobutylamine	DBU	7	0	D		Α	Yes	3	.55-1(c)	G
Diisopropanolamine	DIP	8	0	Е	III	Α	Yes	1	.55-1(c)	G
Diisopropylamine	DIA	7	0	С	Ш	Α	Yes	3	.55-1(c)	G
N,N-Dimethylacetamide	DAC	10	0	Е	111	А	Yes	3	.56-1(b)	G
Dimethylethanolamine	DMB	8	0	D		Α	Yes	1	.56-1(b), (c)	G
Dimethylformamide	DMF	10	0	D		Α	Yes	1	.55-1(e)	G
Di-n-propylamine	DNA	7	0	С	Ш	А	Yes	3	.55-1(c)	G
Dodecyldimethylamine, Tetradecyldimethylamine mixture	DOT	7	0	Е	Ш	А	No	N/A	.56-1(b)	G
Dodecyl diphenyl ether disulfonate solution	DOS	43	0	#	П	А	No	N/A	No	G
EE Glycol Ether Mixture	EEG	40	0	D	Ш	А	No	N/A	No	G
Ethanolamine	MEA	8	0	Е	111	А	Yes	1	.55-1(c)	G
Ethyl acrylate	EAC	14	0	С		А	Yes	2	.50-70(a), .50-81(a), (b)	G
Ethylamine solution (72% or less)	EAN	7	0	А	Ш	А	Yes	6	.55-1(b)	G
N-Ethylbutylamine	EBA	7	0	D	111	А	Yes	3	.55-1(b)	G
N-Ethylcyclohexylamine	ECC	7	0	D	111	А	Yes	1	.55-1(b)	G
Ethylene cyanohydrin	ETC	20	0	Е	111	А	Yes	1	No	G
Ethylenediamine	EDA	7 <sup>2</sup>	0	D	111	А	Yes	1	.55-1(c)	G
Ethylene dichloride	EDC	36 <sup>2</sup>	0	С	111	А	Yes	1	No	G
Ethylene glycol hexyl ether	EGH	40	0	Е	111	А	No	N/A	No	G
Ethylene glycol monoalkyl ethers	EGC	40	0	D/E	III	A	Yes	1	No	G
Ethylene glycol propyl ether	EGP	40	0	E	111	A	Yes	1	No	G
2-Ethylhexyl acrylate	EAI	14	0	E		A	Yes	2	.50-70(a), .50-81(a), (b)	G
Ethyl methacrylate	ETM	14	0	D/E		A	Yes	2	.50-70(a)	G
2-Ethyl-3-propylacrolein	EPA	19 <sup>2</sup>	0	E		A	Yes	1	No	G
Formaldehyde solution (37% to 50%)	FMS	19 <sup>2</sup>	0	D/E		A	Yes	1	.55-1(h)	G
	FFA	19 -	0	D		A	Yes	1	.55-1(h)	G
Furfural Glutaraldehyde solution (50% or less)	GTA	19	0	NA	111	A	No	N/A	No	G
· · · · · · · · · · · · · · · · · · ·	HMC		0	E				N/A	.55-1(c)	G
Hexamethylenediamine solution		7	0	C		A	Yes	1	.56-1(b), (c)	G
Hexamethyleneimine	HMI	1	0	U	П	А	Yes	I		



## Certificate of Inspection Cargo Authority Attachment

Vessel Name: KIRBY 10243

Official #: 1241337

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Shipyard: Trinity Marine, Ashland City Hull #: 4845

Cargo Identification							(	Condit	ions of Carriage	
	-						Vapor R		iono or ourrago	<del></del>
Name	Chem Code	Compat Group No		Grade	Hull Type	Tank Group	App'd (Y or N)	VCS Category	Special Requirements in 46 CFR 151 General and Mat'ls of .50-70(a), .50-81(a), (b)	Insp. Period G
Hydrocarbon 5-9	HFN	20	0	C		A	Yes	1	.50-70(a), .50-81(a), (b)	G
Isoprene	IPR	30	0	<u>A</u>		A	Yes	7	.50-70(a), .55-1(c)	G
Isoprene, Pentadiene mixture	IPN	-	0	B		A	No	N/A	.50-73, .56-1(a), (c), (g)	G
Kraft pulping liquors (free alkali content 3% or more)(including: Black, Green, or White liquor)		5	0	NA	III	A	No	N/A		
Mesityl oxide	MSO	18 <sup>2</sup>	0	D	III	A	Yes	1	No	G
Methyl acrylate	MAM		0	С	III	A	Yes	2	.50-70(a), .50-81(a), (b)	G
Methylcyclopentadiene dimer	MCK	30	0	С	III	A	Yes	1	No	G
Methyl diethanolamine	MDE	8	0	Е	111	A	Yes	1	.56-1(b), (c)	G
2-Methyl-5-ethylpyridine	MEP	9	0	Е	III	A	Yes	1	.55-1(e)	G
Methyl methacrylate	MMN	1 14	0	С	III	A	Yes	2	.50-70(a), .50-81(a), (b)	G
2-Methylpyridine	MPR	9	0	D	III	A	Yes	3	.55-1(c)	G
alpha-Methylstyrene	MSR	30	0	D	III	A	Yes	2	.50-70(a), .50-81(a), (b)	G
Morpholine	MPL	7 <sup>2</sup>	0	D	III	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	III	A	Yes	1	.50-81	G
1,3-Pentadiene	PDE	30	0	А	III	Α	Yes	7	.50-70(a), .50-81	G
Perchloroethylene	PER	36	0	NA	III	Α	No	N/A	No	G
Phthalic anhydride (molten)	PAN	11	0	Е	III	Α	Yes	1	No	G
Polyethylene polyamines	PEB	7 <sup>2</sup>	0	Е	III	Α	Yes	1	.55-1(e)	G
iso-Propanolamine	MPA	8	0	Е	III	Α	Yes	1	.55-1(c)	G
Propanolamine (iso-, n-)	PAX	8	0	Е	III	Α	Yes	1	.56-1(b), (c)	G
iso-Propylamine	IPP	7	0	А	Ш	Α	Yes	5	.55-1(c)	G
Pyridine	PRD	9	0	С	III	Α	Yes	1	.55-1(e)	G
Sodium acetate, Glycol, Water mixture (3% or more Sodium Hydroxide)	SAP		0		111	Α	No	N/A	.50-73, .55-1(j)	G
Sodium aluminate solution (45% or less)	SAU	5	0	NA	III	А	No	N/A	.50-73, .56-1(a), (b), (c)	G
Sodium chlorate solution (50% or less)	SDD	0 <sup>1,2</sup>	0	NA	III	А	No	N/A	.50-73	G
Sodium hypochlorite solution (20% or less)	SHQ	5	0	NA	III	А	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	III	Α	Yes	1	.50-73, .55-1(b)	G
Sodium sulfide, hydrosulfide solution (H2S greater than 15 ppm but less than 200 ppm)	SSI	0 1,2	0	NA	III	А	No	N/A	.50-73, .55-1(b)	G
Sodium sulfide, hydrosulfide solution (H2S greater than 200 ppm)	SSJ	0 1,2	0	NA	II	А	No	N/A	.50-73, .55-1(b)	G
Styrene (crude)	STX		0	D	111	А	Yes	2	No	G
Styrene monomer	STY	30	0	D		А	Yes	2	.50-70(a), .50-81(a), (b)	G
1,1,2,2-Tetrachloroethane	TEC	36	0	NA	Ш	А	No	N/A	No	G
Tetraethylenepentamine	TTP	7	0	Е	Ш	А	Yes	1	.55-1(c)	G
Tetrahydrofuran	THF	41	0	С	Ш	А	Yes	1	.50-70(b)	G
Toluenediamine	TDA	9	0	E	П	A	No	N/A	.50-73, .56-1(a), (b), (c), (g)	G
1,2,4-Trichlorobenzene	тсв	36	0	Е	111	А	Yes	1	No	G
1,1,2-Trichloroethane	TCM	36	0	NA	III	A	Yes	1	.50-73, .56-1(a)	G
Trichloroethylene	TCL	36 <sup>2</sup>	0	NA		A	Yes	1	No	G
1,2,3-Trichloropropane	TCN	36	0	E		A	Yes	3	.50-73, .56-1(a)	G
Triethanolamine	TEA	8 <sup>2</sup>	0	E		A	Yes	1	.55-1(b)	G
Triethylamine	TEN	7	0	C		A	Yes	3	.55-1(e)	G
Triethylenetetramine	TET	7 2	0	E		A	Yes	1	.55-1(b)	G
Triphenylborane (10% or less), caustic soda solution	TPB	5	0	NA		A	No	N/A	.56-1(a), (b), (c)	G
Trisodium phosphate solution	TSP	5	0	NA		A	No	N/A	.50-73, .56-1(a), (c).	G
· · ·	UAS	5 6	0						.56-1(b)	G
Urea, Ammonium nitrate solution (containing more than 2% NH3)	UAS	Ö	0	NA	III	A	No	N/A		5



## Certificate of Inspection Cargo Authority Attachment

Vessel Name: KIRBY 10243

Official #: 1241337

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Shipyard: Trinity Marine, Ashland City Hull #: 4845

Cargo Identification	<u>ו</u>						С	ondit	ions of Carriage	
Calgo laoninoation	-						Vapor Re		iene er earnage	<del></del>
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	App'd	VCS	Special Requirements in 46 CFR 151 General and Mat'ls of	Insp. Period
Vanillin black liquor (free alkali content, 3% or more).	VBL	5	0	NA		A	No	N/A	.50-73, .56-1(a), (c), (g)	G
Vinyl acetate	VAM	13	0	С		A	Yes	2	.50-70(a), .50-81(a), (b)	G
Vinyl neodecanate	VND	13	0	Е	III	Α	No	N/A	.50-70(a), .50-81(a), (b)	G
Vinyltoluene	VNT	13	0	D	Ш	A	Yes	2	.50-70(a), .50-81, .56-1(a), (b), (c), (	G
Subchapter D Cargoes Authorized for Vapor Contro	ol									
Acetone	ACT	18 <sup>2</sup>	D	С		А	Yes	1		
Acetophenone	ACP	18	D	Е		А	Yes	1		
Alcohol(C12-C16) poly(1-6)ethoxylates	APU	20	D	Е		А	Yes	1		
Alcohol(C6-C17)(secondary) poly(7-12)ethoxylates	AEB	20	D	Е		А	Yes	1		
Amyl acetate (all isomers)	AEC	34	D	D		А	Yes	1		
Amyl alcohol (iso-, n-, sec-, primary)	AAI	20	D	D		А	Yes	1		
Benzyl alcohol	BAL	21	D	Е		А	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		A	Yes	1		
Butyl acetate (all isomers)	BAX	34	D	D		А	Yes	1		
Butyl alcohol (iso-)	IAL	20 <sup>2</sup>	D	D		А	Yes	1		
Butyl alcohol (n-)	BAN	20 <sup>2</sup>	D	D		А	Yes	1		
Butyl alcohol (sec-)	BAS	20 <sup>2</sup>	D	С		А	Yes	1		
Butyl alcohol (tert-)	BAT		D	С		А	Yes	1		
Butyl benzyl phthalate	BPH	34	D	Е		А	Yes	1		
Butyl toluene	BUE	32	D	D		А	Yes	1		
Caprolactam solutions	CLS	22	D	Е		А	Yes	1		
Cyclohexane	CHX	31	D	С		А	Yes	1		
Cyclohexanol	CHN	20	D	Е		А	Yes	1		
1,3-Cyclopentadiene dimer (molten)	CPD	30	D	D/E		А	Yes	2		
p-Cymene	CMP	32	D	D		А	Yes	1		
iso-Decaldehyde	IDA	19	D	Е		А	Yes	1		
n-Decaldehyde	DAL	19	D	Е		А	Yes	1		
Decene	DCE	30	D	D		А	Yes	1		
Decyl alcohol (all isomers)	DAX	20 <sup>2</sup>	D	Е		А	Yes	1		
n-Decylbenzene, see Alkyl(C9+)benzenes	DBZ	32	D	Е		А	Yes	1		
Diacetone alcohol	DAA	20 <sup>2</sup>	D	D		А	Yes	1		
ortho-Dibutyl phthalate	DPA	34	D	Е		A	Yes	1		
Diethylbenzene	DEB	32	D	D		A	Yes	1		
Diethylene glycol	DEG	40 <sup>2</sup>	D	Е		A	Yes	1		
Diisobutylene	DBL	30	D	С		А	Yes	1		
Diisobutyl ketone	DIK	18	D	D		А	Yes	1		
Diisopropylbenzene (all isomers)	DIX	32	D	Е		А	Yes	1		
Dimethyl phthalate	DTL	34	D	Е		А	Yes	1		
Dioctyl phthalate	DOP	34	D	Е		А	Yes	1		
Dipentene	DPN	30	D	D		A	Yes	1		
Diphenyl	DIL	32	D	D/E		A	Yes	1		
Diphenyl, Diphenyl ether mixtures	DDO	33	D	Е		А	Yes	1		
Diphenyl ether	DPE	41	D	{E}		А	Yes	1		
Dipropylene glycol	DPG	40	D	E		А	Yes	1		
Distillates: Flashed feed stocks	DFF	33	D	E		А	Yes	1		
Distillates: Straight run	DSR	33	D	Е		A	Yes	1		



## Certificate of Inspection Cargo Authority Attachment

Vessel Name: KIRBY 10243

Official #: 1241337

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Shipyard: Trinity Marine, Ashland City Hull #: 4845

Cargo Identificatio	n							Condi	tions of Carriage	
								Recovery		
Name	Chem Code				Hull Type	Tank Group	App'd (Y or N)	VCS Category	Special Requirements in 46 CFR 151 General and Mat'ls of	Insp. Period
Dodecene (all isomers)	DOZ	30	D	D		A	Yes	1		
Dodecylbenzene, see Alkyl(C9+)benzenes	DDB	32	D	E		A	Yes	1		
2-Ethoxyethyl acetate	EEA	34	D	D		А	Yes	1		
Ethoxy triglycol (crude)	ETG	40	D	Е		A	Yes	1		
Ethyl acetate	ETA	34	D	С		А	Yes	1		
Ethyl acetoacetate	EAA	34	D	E		А	Yes	1		
Ethyl alcohol	EAL	20 <sup>2</sup>	D	С		А	Yes	1		
Ethylbenzene	ETB	32	D	С		А	Yes	1		
Ethyl butanol	EBT	20	D	D		А	Yes	1		
Ethyl tert-butyl ether	EBE	41	D	С		А	Yes	1		
Ethyl butyrate	EBR	34	D	D		А	Yes	1		
Ethyl cyclohexane	ECY	31	D	D		А	Yes	1		
Ethylene glycol	EGL	20 <sup>2</sup>	D	Е		А	Yes	1		
Ethylene glycol butyl ether acetate	EMA	34	D	Е		А	Yes	1		
Ethylene glycol diacetate	EGY	34	D	Е		А	Yes	1		
Ethylene glycol phenyl ether	EPE	40	D	Е		Α	Yes	1		
Ethyl-3-ethoxypropionate	EEP	34	D	D		Α	Yes	1		
2-Ethylhexanol	EHX	20	D	Е		А	Yes	1		
Ethyl propionate	EPR	34	D	С		А	Yes	1		
Ethyl toluene	ETE	32	D	D		А	Yes	1		
Formamide	FAM	10	D	Е		А	Yes	1		
Furfuryl alcohol	FAL	20 <sup>2</sup>	D	Е		А	Yes	1		
Gasoline blending stocks: Alkylates	GAK	33	D	A/C		А	Yes	1		
Gasoline blending stocks: Reformates	GRF	33	D	A/C		А	Yes	1		
Gasolines: Automotive (containing not over 4.23 grams lead per gallon)	GAT	33	D	С		А	Yes	1		
Gasolines: Aviation (containing not over 4.86 grams of lead per gallon)	GAV	33	D	С		А	Yes	1		
Gasolines: Casinghead (natural)	GCS	33	D	A/C		А	Yes	1		
Gasolines: Polymer	GPL	33	D	A/C		А	Yes	1		
Gasolines: Straight run	GSR	33	D	A/C		А	Yes	1		
Glycerine	GCR	20 <sup>2</sup>	D	Е		А	Yes	1		
Heptane (all isomers), see Alkanes (C6-C9) (all isomers)	HMX	31	D	С		А	Yes	1		
Heptanoic acid	HEP	4	D	Е		А	Yes	1		
Heptanol (all isomers)	HTX	20	D	D/E		А	Yes	1		
Heptene (all isomers)	HPX	30	D	С		А	Yes	2		
Heptyl acetate	HPE	34	D	Е		А	Yes	1		
Hexane (all isomers), see Alkanes (C6-C9)	HXS	31 <sup>2</sup>	D	B/C		А	Yes	1		
Hexanoic acid	НХО	4	D	Е		А	Yes	1		
Hexanol	HXN	20	D	D		А	Yes	1		
Hexene (all isomers)	HEX	30	D	С		А	Yes	2		
Hexylene glycol	HXG	20	D	E		А	Yes	1		
Isophorone	IPH	18 <sup>2</sup>	D	Е		А	Yes	1		
Jet fuel: JP-4	JPF	33	D	E		A	Yes	1		
Jet fuel: JP-5 (kerosene, heavy)	JPV	33	D	D		A	Yes	1		
Kerosene	KRS	33	D	D		A	Yes	1		
Methyl acetate	MTT	34	D	D		A	Yes	1		
Methyl alcohol	MAL	20 <sup>2</sup>	D	C		A	Yes	1		
Methylamyl acetate	MAC	34	D	D		A	Yes	1		
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### Certificate of Inspection Cargo Authority Attachment

Vessel Name: KIRBY 10243

Official #: 1241337

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Shipyard: Trinity Marine, Ashland City Hull #: 4845

Cargo Identification	1							Condi	tions of Carriage	
j								Recovery		
Name Methylamyl alcohol	Chem Code MAA	Compat Group No 20	Sub Chapter D	Grade D	Hull Type	Tank Group A	App'd	VCS	Special Requirements in 46 CFR 151 General and Mat'ls of	Insp. Period
	MAK	18	D	D		A	Yes	1		
Methyl amyl ketone	MBE	41 <sup>2</sup>	D	C		A	Yes	1		
Methyl tert-butyl ether	MBK	18	D	C C		A	Yes	1		
Methyl butyl ketone	MBU	34	D	c		A	Yes	1		
Methyl butyrate		34 18 <sup>2</sup>		c						
Methyl ethyl ketone	MEK		D	D		A	Yes	1		
Methyl heptyl ketone	MHK	18	D			A	Yes	1		
Methyl isobutyl ketone	MIK	18 <sup>2</sup>	D	C		A	Yes	1		
Methyl naphthalene (molten)	MNA	32	D	E		A	Yes	1		
Mineral spirits	MNS	33	D	D		A	Yes	1		
Myrcene	MRE	30	D	D		A	Yes	1		
Naphtha: Heavy	NAG	33	D	#		A	Yes	1		
Naphtha: Petroleum	PTN	33	D	#		A	Yes	1		
Naphtha: Solvent	NSV	33	D	D		A	Yes	1		
Naphtha: Stoddard solvent	NSS	33	D	D		А	Yes	1		
Naphtha: Varnish makers and painters (75%)	NVM	33	D	С		А	Yes	1		
Nonane (all isomers), see Alkanes (C6-C9)	NAX	31	D	D		А	Yes	1		
Nonene (all isomers)	NON	30	D	D		А	Yes	2		
Nonyl alcohol (all isomers)	NNS	20 <sup>2</sup>	D	E		А	Yes	1		
Nonyl phenol	NNP	21	D	Е		А	Yes	1		
Nonyl phenol poly(4+)ethoxylates	NPE	40	D	Е		А	Yes	1		
Octane (all isomers), see Alkanes (C6-C9)	OAX	31	D	С		А	Yes	1		
Octanoic acid (all isomers)	OAY	4	D	Е		А	Yes	1		
Octanol (all isomers)	OCX	20 <sup>2</sup>	D	Е		А	Yes	1		
Octene (all isomers)	OTX	30	D	С		А	Yes	2		
Oil, fuel: No. 2	OTW	33	D	D/E		А	Yes	1		
Oil, fuel: No. 2-D	OTD	33	D	D		А	Yes	1		
Oil, fuel: No. 4	OFR	33	D	D/E		А	Yes	1		
Oil, fuel: No. 5	OFV	33	D	D/E		А	Yes	1		
Oil, fuel: No. 6	OSX	33	D	Е		А	Yes	1		
Oil, misc: Crude	OIL	33	D	C/D		А	Yes	1		
Oil, misc: Diesel	ODS	33	D	D/E		А	Yes	1		
Oil, misc: Gas, high pour	OGP	33	D	Е		А	Yes	1		
Oil, misc: Lubricating	OLB	33	D	Е		А	Yes	1		
Oil, misc: Residual	ORL	33	D	Е		А	Yes	1		
Oil, misc: Turbine	OTB	33	D	Е		А	Yes	1		
Pentene (all isomers)	PTX	30	D	А		А	Yes	5		
n-Pentyl propionate	PPE	34	D	D		А	Yes	1		
alpha-Pinene	PIO	30	D	D		А	Yes	1		
beta-Pinene	PIP	30	D	D		А	Yes	1		
Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether	PAG	40	D	Е		А	Yes	1		
Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether acetate	PAF	34	D	Е		А	Yes	1		
Polybutene	PLB	30	D	E		А	Yes	1		
Polypropylene glycol	PGC	40	D	E		A	Yes	1		
iso-Propyl acetate	IAC	34	D	C		A	Yes	1		
n-Propyl acetate	PAT	34	D	c		A	Yes	1		
iso-Propyl alcohol	IPA	20 <sup>2</sup>	D	c		A	Yes	1		
	PAL	20 <sup>2</sup>	D	c		A	Yes	1		
n-Propyl alcohol	I AL	20 -		U		л	169	1		



## Certificate of Inspection Cargo Authority Attachment

Vessel Name: KIRBY 10243 Official #: 1241337

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Shipyard: Trinity Marine, Ashland City Hull #: 4845

Cargo Identifica	Conditions of Carriage									
Name Propylbenzene (all isomers)	Chem Code PBY	Compat Group No 32	Sub Chapter D	Grade D	Hull Type	Tank Group A	App'd	Recovery VCS Category 1	Special Requirements in 46 CFR 151 General and Mat'ls of	Insp. Period
iso-Propylcyclohexane	IPX	31	D	D		А	Yes	1		
Propylene glycol	PPG	20 <sup>2</sup>	D	Е		А	Yes	1		
Propylene glycol methyl ether acetate	PGN	34	D	D		А	Yes	1		
Propylene tetramer	PTT	30	D	D		А	Yes	1		
Sulfolane	SFL	39	D	Е		А	Yes	1		
Tetraethylene glycol	TTG	40	D	Е		А	Yes	1		
Tetrahydronaphthalene	THN	32	D	Е		А	Yes	1		
Toluene	TOL	32	D	С		А	Yes	1		
Tricresyl phosphate (less than 1% of the ortho isomer)	TCP	34	D	Е		А	Yes	1		
Triethylbenzene	TEB	32	D	Е		А	Yes	1		
Triethylene glycol	TEG	40	D	Е		А	Yes	1		
Triethyl phosphate	TPS	34	D	Е		А	Yes	1		
Trimethylbenzene (all isomers)	TRE	32	D	{D}		А	Yes	1		
Trixylenyl phosphate	TRP	34	D	Е		А	Yes	1		
Undecene	UDC	30	D	D/E		А	Yes	1		
1-Undecyl alcohol	UND	20	D	Е		А	Yes	1		
Xylenes (ortho-, meta-, para-)	XLX	32	D	D		А	Yes	1		



# **Certificate of Inspection** Cargo Authority Attachment

Vessel Name: KIRBY 10243 Official #: 1241337

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Shipyard: Trinity Marine, Hull #: 4845

#### Explanation of terms & symbols used in the Table:

Cargo Identification Name	The proper shipping name as listed in 46 CFR Table 30.25-1, 46 CFR Table 151.05, and 46 CFR Part 153 Table 2.
Chem Code none	The proper simpling name as insed in 46 CFK halo 30.251, 46 CFK halo 151.05, and 46 CFK Part 153 halo 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.
Note 1	Because of the very high reactivity or unusual conditions of carriage or potential compatibility problems, this product is not assigned to a specific group in the Compatibility Chart. For additional compatibility information, contact Commandant (CG-3PSO-3), U.S. Coast Guard, 2100 Second Street, SW, Washington, DC 20593-0001. Telephone
Note 2	(202) 372-1425. See Appendix I to 46 CFR Part 150 - exceptions to the compatability chart.
Subchapter	The subchapter in Title 46 Code of Federal Regulations under which the cargo has been classified.
Subchapter D Subchapter O Note 3	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	Flammable liquid cargoes, as defined in 46 CFR 30-10.22.
D, E Note 4	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
NA	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 liguid.
#	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.
II	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).
III NA	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	The vessel's tank group (as defined in Section 4) which is authorized for carriage of the named cargo.
Vapor Recovery Approved (Y or N)	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	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.
Vapor Recovery	
Approved (Y or N)	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 39.20-11) 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	(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.
none	The cargo has not been evaluated/classified for use in vapor control systems.