

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

19 May 2022 Certification Date: 19 May 2023 **Expiration Date:** 

Temporary Certificate of Inspection

ded, regulation V/14, for a SAFE MANNING DOCUMENT.

Teceipt on coard o	Official Numb		IMO Numbe		Call Sign	Service	
essel Name			E			Tank B	arge
(IRBY 28143	1238004					Tank Barge  DWT Length R-297.6 H0	
Hailing Port	Hull	Material	Horsep	ower	Propulsion		
WILMINGTON, DE	Ste	eel					
UNITED STATES							
Place Built	Delivery	/ Date	Keel Laid Date	Gross Tons	Net Tons	DWT	Length
GALVESTON, TX				R-1619	R-1619		
GALVESTON, TA	23M	ar2012	29Nov2011	1-	1-		1-0
UNITED STATES						.*	
Owner KIRBY INLAND MARINE L 18350 Market Street Channelview, TX 77530 UNITED STATES	.P		1835 Char		X 77530		
0 Certified Lifeboatmen, 0	ed with the following Certified Tankermen	1, 0 1130	d and unlicense C Type Rating, f Engineers	and o o	el. Included in operators Oilers	which there r	must be
0 Masters	0 First Class Pilots		Assistant Engine	ers			
0 Chief Mates	0 Radio Officers		and Assistant Eng				
0 Second Mates			d Assistant Engine				
0 Third Mates	0 Able Seamen		nsed Engineers				
Master First Class Pilot	Ordinary Seamen     Deckhands	0.00	lified Member Eng	ineer			
Mate First Class Pilots     In addition, this vessel may     Persons allowed: 0	y carry 0 Passengers	s, 0 Othe	er Persons in c	rew, 0 Pers	ons in addition	to crew, and	d no Others. Total
Route Permitted And C	onditions Of Opera	tion:					
Lakes, Bays, and	d Sounds						
Correhelle, Florida.							
(2). If this vessel is vessel must be inspect	operated in salt ed using salt wate soon as this chan	r inter ge in s	vals per 46 ( status occurs	OFR 31.10-	21(a)(1) and	the cogniza	ant OCMI must be
						ank Barge S	treamiined
WAS TO NEXT BACK F	OR ADDITIONAL O	CERTIF	ICATE INFOR	RMATION*	**		
					D OTATEC A	on Officer in	Charge Marine
***SEE NEXT PAGE F With this Inspection for Countries and regulations	ertification having be	en comp	1 1 1 4	LIMITE	ED STATES I	ne Officer in licable vesse	Charge, Marine Il inspection laws a

Signature

A/P/R

Date

Zone

J. A. COLEMAN OFR, USCG, BY DIRECTION

Houston-Galveston

Officer in Charge, Marine Inspection

Inspection Zone



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

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Vessel Name: KIRBY 28143

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

31Mar2032

26Apr2022

23Mar2012

Internal Structure

31Mar2027

26Apr2022

07Apr2017

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

Authorization:

Grade A and lower and specified hazardous cargoes.

**Total Capacity** 

Units

Highest Grade Type Part151 Regulated Part153 Regulated Part154 Regulated

28717

Barrels

Yes

No

No

\*Hazardous Bulk Solids Authority\*

Not Authorized

### \*Loading Constraints - Structural\*

*Loading Constraints - Struc		Maximum Density (lbs/g	dal)
Tank Number	Max Cargo Weight per Tank (short tons)	Maximum Density (150)	941)
1 P/S	679	13.60	
V 0/2/ 20	040	13.60	
2 P/S	819		
3 P/S	718	13.60	
0170			

### \*Loading Constraints - Stability\*

Hull Type	Maximum Load (short tons)	Maximum Draft (ft/in)	Max Density (lbs/gal)	Route Description
l ii	3849	10ft 3in	13.60	R,LBS, LC 0-12
III	4420	11ft 0in	13.60	R, LBS, LC 0-12

#### \*Conditions Of Carriage\*

Only those cargoes named in the vessel's Cargo Authority Attachment (CAA), Marine Safety Center Serial # C1-1102931 dated September 9, 2011, 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 8.7 lbs/gal. Cargoes with higher densities, up to 13.6 lbs/gal, may be carried as slack loads, but shall not exceed the tank weight limits listed above.

Per 46 CFR 151.10-15(c)(2) the maximum, tank weights listed 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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Vessel Name: KIRBY 28143

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 # C1-1100014 dated January 4, 2011 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 162.017/0000167/4. The cargo tank top is suitable for a maximum allowable working pressure (MAWP) of 6.29 psig.

In accordance with 46 CFR part 39.1017 and 39.5001(e) this vessel's VCS has been evaluated and approved for multibreasted tandem loading with this vessel.

### --- Inspection Status ---

#### \*Cargo Tanks\*

*Cargo Tanks*	Laterana Even			External Exam	n	
	Internal Exam		Next	Previous	Last	Next
Tank Id	Previous	Last		07Apr2017	26Apr2022	31Mar2027
1 P/S	23Mar2012	26Apr2022	26Apr2027			31Mar2027
2 P/S	23Mar2012	26Apr2022	26Apr2027	07Apr2017	26Apr2022	
Next 1	23Mar2012	26Apr2022	26Apr2027	07Apr2017	26Apr2022	31Mar2027
3 P/S	23Wai 2012	20/ 10/12	Hydro Test			
=	Safety Valves		Previous	Last	Next	
Tank Id				=	-	
1 P/S	*			-	<u></u>	
2 P/S	-		-			
3 P/S	~		9 <b>4</b>		× <del>=</del>	

## ---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

40-B

\*\*\*END\*\*\*

<sup>\*</sup>Vapor Control Authorization\*



## Department of Homeland Security United States Coast Guard

Serial #: Dated: C1-1102931

09-Sep-11

# Certificate of Inspection

## Cargo Authority Attachment

Vessel Name: KIRBY 28143 Official #: 1238004

Shipyard: WEST GULF MARINE

Hull #: 213

46 CFR 151 Tank Group Characteristics

Tank Group Information	Cargo Identification				Carac	Tanks					Environmental Control		Special Requirements				
Tnk Grp Tanks in Group	Density	Press.	Temp.	Hull Typ	Seg	Seg Pipe	Tanks	Handling Space	Fire Protection Provided	General	Materials of Construction	Elec Haz	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-	55-1(b), (c), (e), (f), (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.

List of Authorized Cargoes

Cargo Identificatio	n					Conditions of Carriage						
							Vapor Re	ecovery				
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		
Authorized Subchapter O Cargoes												
Acetonitrile	ATN	37	0	С	111	Α	Yes	3	No	G		
Acrylonitrile	ACN	15 <sup>2</sup>	0	С	П	Α	Yes	4	.50-70(a), 55-1(e)	G		
Adiponitrile	ADN	37	0	Е	11	Α	Yes	1	No	G		
Alkyl(C7-C9) nitrates	AKN	34 2	0	NA	111	Α	No	N/A	.50-81, .50-86	G		
Aminoethylethanolamine	AEE	8	0	Ε	Ш	Α	Yes	1	.55-1(b)	G		
Ammonium bisulfite solution (70% or less)	ABX	43 2	0	NA	Ш	Α	No	N/A	.50-73, .56-1(a), (b), (c)	G		
Ammonium hydroxide (28% or less NH3)	AMH	6	0	NA	Ш	Α	No	N/A	.56-1(a), (b), (c), (f), (g)	G		
Anthracene oil (Coal tar fraction)	AHO	33	0	NA	11	Α	No	N/A	No	G		
Benzene	BNZ	32	0	С	111	Α	Yes	1	.50-60	G		
Benzene or hydrocarbon mixtures (having 10% Benzene or more)	ВНВ	32 <sup>2</sup>	0	С	Ш	А	Yes	1	.50-60	G		
Benzene or hydrocarbon mixtures (containing Acetylene and 10% Benzene or more)	ВНА	32 <sup>2</sup>	0	С	111	Α	Yes	1	.50-60, .56-1(b), (d), (f), (g)	G		
Benzene, Toluene, Xylene mixtures (10% Benzene or more)	BTX	32	0	B/C	111	Α	Yes	1	.50-60	G		
Butyl acrylate (all isomers)	BAR	14	0	D	111	Α	Yes	2	.50-70(a), .50-81(a), (b)	G		
Butyl methacrylate	ВМН	14	0	D	111	Α	Yes	2	.50-70(a), .50-81(a), (b)	G		
Butyraldehyde (all isomers)	BAE	19	0	С	Ш	Α	Yes	1	.55-1(h)	G		
Camphor oil (light)	CPO	18	0	D	11	Α	No	N/A	No	G		
Carbon tetrachloride	CBT	36	0	NA	111	Α	No	N/A	No	G		
Caustic potash solution	CPS	5 <sup>2</sup>	0	NA	111	Α	No	N/A	.50-73, .55-1(j)	G		
Caustic soda solution	CSS	5 <sup>2</sup>	0	NA	111	Α	No	N/A	.50-73, .55-1(j)	G		
Chemical Oil (refined, containing phenolics)	COD	21	0	Е	11	Α	No	N/A	.50-73	G		
Chlorobenzene	CRB	36	0	D	111	Α	Yes	1	No	G		
Chloroform	CRF	36	0	NA	111	А	Yes	3	No	G		
Coal tar naphtha solvent	NCT	33	0	D	Ш	Α	Yes	1	.50-73	G		
Creosote	CCV	/ 21 <sup>2</sup>	0	Е	111	Α	Yes	1	No	G		
Cresols (all isomers)	CRS	21	0	E	111	Α	Yes	1	No	G		
Cresylate spent caustic	CSC	5	0	NA	Ш	А	No	N/A	. 50-73, 55-1(b)	G		
Cresylic acid tar	CRX		0	E	Ш	Α	Yes	1	.55-1(f)	G		
Crotonaldehyde	CTA	19 <sup>2</sup>	0	С	11	Α	Yes	4	.55-1(h)	G		
Crude hydrocarbon feedstock (containing Butyraldehydes and Ethylpropyl acrolein)	CHG		0	С	111	Α	No	N/A	No	G		
Cyclohexanone	CCH	18	0	D	Ш	А	Yes	1	.56-1(a), (b)	G		
Cyclohexanone, Cyclohexanol mixture	CYX	18 2	0	E	Ш	Α	Yes	. 1	.56-1 (b)	G		
Cyclohexylamine	CHA	. 7	0	D	111	Α	Yes	1	.56-1(a), (b), (c), (g)	G		

<sup>2.</sup> 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.

<sup>3.</sup> 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.



C1-1102931 Dated: 09-Sep-11

# Certificate of Inspection

# Cargo Authority Attachment

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Vessel Name: KIRBY 28143 Official #: 1238004

Shipyard: WEST GULF

**MARINE** 

Hull #: 213

Cargo Identificatio	n					Conditions of Carriage							
							Vapor R						
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.			
Cyclopentadiene, Styrene, Benzene mixture	CSB	30	0	D	III	A	Yes	1	.50-60, .56-1(b)	G			
so-Decyl acrylate	IAI	14	0	E	111	Α	Yes	2	.50-70(a), .50-81(a), (b), .55-1(c)	G			
Dichlorobenzene (all isomers)	DBX	36	0	E	111	Α	Yes	3	.56-1(a), (b)	G			
1,1-Dichloroethane	DCH	36	0	С	Ш	Α	Yes	1	No	G			
2,2'-Dichloroethyl ether	DEE	41	0	D	П	Α	Yes	1	.55-1(f)	G			
Dichloromethane	DCM	36	0	NA	111	Α	Yes	5	No	G			
2,4-Dichlorophenoxyacetic acid, diethanolamine salt solution	DDE	43	0	Е	111	Α	No	N/A	.56-1(a), (b), (c), (g)	G			
2,4-Dichlorophenoxyacetic acid, dimethylamine salt solution	DAD	0 1,2	0	Α	111	Α	No	N/A	.56-1(a), (b), (c), (g)	G			
2,4-Dichlorophenoxyacetic acid, triisopropanolamine salt solution	DTI	43 2	0	E	Ш	Α	No	N/A	.56-1(a), (b), (c), (g)	G			
1,1-Dichloropropane	DPB	36	0	С	111	Α	Yes	3	No	G			
1,2-Dichloropropane	DPP	36	0	С	111	Α	Yes	3	No	G			
1,3-Dichloropropane	DPC	36	0	С	III	Α	Yes	3	No	G			
1,3-Dichloropropene	DPU	15	0	D	II	Α	Yes	4	No	G			
Dichloropropene, Dichloropropane mixtures	DMX		0	C	11	A	Yes	1	No	G			
Diethanolamine	DEA	8	0		111	A	Yes	1	.55-1(c)	G			
Diethylamine	DEN	7	0	C	111	A	Yes	3	.55-1(c)	G			
Diethylenetriamine	DET	7 2	0	E	III	A	Yes	1	.55-1(c)	G			
	DBU	7	0	D	111	A	Yes	3	.55-1(c)	G			
Diisobutylamine	DIP	8	0	E	111	A	Yes	1	.55-1(c)	G			
Diisopropanolamine	DIA	7	0	C		A	Yes	3	.55-1(c)	G			
Diisopropylamine	DAC	10	0	E	<u>''</u>	A	Yes		.56-1(b)	G			
N,N-Dimethylacetamide	DMB		0		III	A	Yes	1	.56-1(b), (c)	G			
Dimethylethanolamine								1	.55-1(e)	G			
Dimethylformamide	DMF	10 7	0	D		A	Yes		.55-1(c)	G			
Di-n-propylamine	DNA		0	C		A	Yes			G			
Dodecyldimethylamine, Tetradecyldimethylamine mixture	DOT	7	0	Ε		A	No	N/A		G			
Dodecyl diphenyl ether disulfonate solution	DOS		0	#	11	Α	No	N/A	V 1000	G			
EE Glycol Ether Mixture	EEG		0	D	III	Α	No	N/A		G			
Ethanolamine	MEA		0	E	111	Α	Yes		.55-1(c)				
Ethyl acrylate	EAC		0	С		Α	Yes		.50-70(a), .50-81(a), (b)	G			
Ethylamine solution (72% or less)	EAN		0	A	Ш	A	No	N/A		G			
N-Ethylbutylamine	EBA		0	D	111	Α	Yes		.55-1(b)				
N-Ethylcyclohexylamine	ECC	7	0	D	Ш	Α	Yes		.55-1(b)	G			
Ethylene cyanohydrin	ETC	20	0	E	111	Α	Yes	1	No	G			
Ethylenediamine	EDA	7 2	0	D	111	Α	Yes	1	.55-1(c)	G			
Ethylene dichloride	EDC	36 <sup>2</sup>	0	С	Ш	Α	Yes	1	No	G			
Ethylene glycol hexyl ether	EGH	40	0	E	Ш	Α	No	N/A	No No	G			
Ethylene glycol monoalkyl ethers	EGC	40	0	D/E	III	Α	Yes	1	No	G			
Ethylene glycol propyl ether	EGP	40	0	E	111	Α	Yes	1	No	G			
2-Ethylhexyl acrylate	EAI	14	0	Е	111	Α	Yes	2	.50-70(a), .50-81(a), (b)	G			
Ethyl methacrylate	ETM	1 14	0	D/E	III	Α	Yes	2	.50-70(a)	G			
2-Ethyl-3-propylacrolein	EPA	19 <sup>2</sup>	0	Ε	Ш	Α	Yes	1	No	G			
Formaldehyde solution (37% to 50%)	FMS	19 <sup>2</sup>	0	D/E	III	Α	Yes	: 1	.55-1(h)	G			
Furfural	FFA	19	0	D	111	А	Yes	; 1	.55-1(h)	G			
Glutaraldehyde solution (50% or less)	GTA		0	NA	III	А	No	N/A	4 No	G			
Hexamethylenediamine solution	HMC		0	E	III		Yes	1	.55-1(c)	G			
Hexamethyleneimine	НМІ		0	С	11	А	Yes		.56-1(b), (c)	G			
Hydrocarbon 5-9	HFN		0	С	111		Yes		.50-70(a), .50-81(a), (b)	G			
Isoprene	IPR	·	0	Α	111		No	N/A	Δ .50-70(a), .50-81(a), (b)	G			





Serial #: C1-1102931

Dated: 09-Sep-11

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## Cargo Authority Attachment

Vessel Name: KIRBY 28143

Shipyard: WEST GULF

MARINE

Hull #: 213

Official #: 1238004

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Cargo Identification	1					Conditions of Carriage							
	01					-0.000		Recovery	0 110				
Name soprene, Pentadiene mixture	Chem Code IPN	Compat Group No	Sub Chapter O	Grade B	Hull Type III	Tank Group A	App'd (Y or N) No	VCS Category N/A		Insp. Period G			
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)	G			
Mesityl oxide	MSO	18 <sup>2</sup>	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 diethanolamine	MDE	8	0	E	Ш	Α	Yes	1	.56-1(b), (c)	G			
2-Methyl-5-ethylpyridine	MEP	9	0	E	Ш	Α	Yes	1	.55-1(e)	G			
Methyl methacrylate	MMN	1 14	0	С	111	Α	Yes	2	.50-70(a), .50-81(a), (b)	G			
2-Methylpyridine	MPR	9	0	D	111	Α	Yes	3	.55-1(c)	G			
alpha-Methylstyrene	MSR	30	0	D	Ш	Α	Yes	2	.50-70(a), .50-81(a), (b)	G			
Morpholine	MPL	7 2	0	D	III	Α	Yes	1	.55-1(c)	G			
Nitroethane	NTE	42	0	D	11	Α	No	N/A	.50-81, .56-1(b)	G			
1- or 2-Nitropropane	NPM	42	0	D	Ш	Α	Yes	1	.50-81	G			
1,3-Pentadiene	PDE	30	0	Α	111	Α	No	N/A	.50-70(a), .50-81	G			
Perchloroethylene	PER	36	0	NA	III	Α	No	N/A	No	G			
Polyethylene polyamines	PEB	7 2	0	E	III	Α	Yes	1	.55-1(e)	G			
iso-Propanolamine	MPA	8	0	E	111	Α	Yes	1	.55-1(c)	G			
Propanolamine (iso-, n-)	PAX	8	0	E	III	Α	Yes	1	.56-1(b), (c)	G			
iso-Propylamine	IPP	7	0	Α	11	Α	Yes	5	.55-1(c)	G			
Pyridine	PRD	9	0	С	III	A	Yes		.55-1(e)	G			
Sodium acetate, Glycol, Water mixture (3% or more Sodium Hydroxic	te) SAP		0		III	A	No	N/A	.50-73, .55-1(j)	G			
Sodium aluminate solution (45% or less)	SAU	5	0	NA	111	A	No	N/A	.50-73, .56-1(a), (b), (c)	G			
Sodium chlorate solution (50% or less)	SDD	0 1,2		NA	Ш	А	No	N/A	.50-73	G			
Sodium hypochlorite solution (20% or less)	SHQ		0	NA	III	A	No	N/A		G			
Sodium sulfide, hydrosulfide solution (H2S 15 ppm or less)	SSH	0 1,3	2 0	NA	III	A	Yes	1	.50-73, .55-1(b)	G			
Sodium sulfide, hydrosulfide solution (H2S greater than 15 ppm but less than 200 ppm)	SSI	0 1,3		NA	Ш	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	Н	Α	No	N/A	.50-73, .55-1(b)	G			
Styrene (crude)	STX		0	D	III	Α	Yes	2	No	G			
Styrene monomer	STY	30	0	D	111	Α	Yes	2	.50-70(a), .50-81(a), (b)	G			
1,1,2,2-Tetrachloroethane	TEC	36	0	NA	III	А	No	N/A	No	G			
Tetraethylenepentamine	TTP	7	0	Е	III	А	Yes	1	.55-1(c)	G			
Tetrahydrofuran	THE	41	0	С	III	A	Yes	1	.50-70(b)	G			
Toluenediamine	TDA	9	0	E	II	Α	No	N/A	.50-73, 56-1(a), (b), (c), (g)	G			
1,2,4-Trichlorobenzene	ТСВ	36	0	Ε	111	А	Yes	. 1	No	G			
1,1,2-Trichloroethane	TCM		0	NA	III	A	Yes		.50-73, .56-1(a)	G			
Trichloroethylene	TCL	36 <sup>2</sup>	0	NA	111	А	Yes		No	G			
1,2,3-Trichloropropane	TCN		0	E	11	Α	Yes	3	.50-73, .56-1(a)	G			
Triethanolamine	TEA	and the face of the same of the	0	E	III	Α	Yes		.55-1(b)	G			
	TEN		0	C	II	Α	Yes		.55-1(e)	G			
Triethylamine	TET	7 2	0	E	111	A	Yes		.55-1(b)	G			
Triethylenetetramine Triphenylborane (10% or less), caustic soda solution	TPB		0	NA	111	A	No	N/A	Δ .56-1(a), (b), (c)	G			
	TSP		0	NA	111	A	No	N/A		G			
Trisodium phosphate solution	UAS		0	NA	111		No	N/A		G			
Urea, Ammonium nitrate solution (containing more than 2% NH3)	VBL		0	NA	111		No	N/A		G			
Vanillin black liquor (free alkali content, 3% or more).	VAN		0	C	111		Yes		.50-70(a), .50-81(a), (b)	G			
Vinyl acetate	VND		0	E	111		No	N//		G			
Vinyl neodecanate Vinyltoluene	VNT		0	D	111		Yes		.50-70(a), .50-81, .56-1(a), (b), (c), (	G			



Serial #: C1-1102931 Dated:

09-Sep-11

# Certificate of Inspection

## Cargo Authority Attachment

Vessel Name: KIRBY 28143 Official #: 1238004

Shipyard: WEST GULF

MARINE

Hull #: 213

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Cargo Identification **Conditions of Carriage** Compat App'd Special Requirements in 46 CFR Group No Chapter Grade Type Group Category 151 General and Mat'ls of Subchapter D Cargoes Authorized for Vapor Control Acetone 18 2 D Yes D Α Acetophenone 18 Ε Yes Alcohol(C12-C16) poly(1-6)ethoxylates APU 20 D Ε Α Yes Alcohol(C6-C17)(secondary) poly(7-12)ethoxylates AEB 20 D Е A Yes Amyl acetate (all isomers) AEC 34 D D Α Yes D Α Amyl alcohol (iso-, n-, sec-, primary) AAI 20 D Yes D Ε Benzyl alcohol BAL 21 A Yes Brake fluid base mixtures (containing Poly(2-8)alkylene(C2-C3) BFX 20 D Ε Α Yes glycols, Polyalkylene(C2-C10) glycol monoalkyl(C1-C4) ethers, and Butyl acetate (all isomers) BAX 34 D D Α 20 2 Butyl alcohol (iso-) IAL D D Yes Butyl alcohol (n-) 20 2 D D Α Yes 20 2 D C Α BAS Butyl alcohol (sec-) Yes BAT D C A Yes Butyl alcohol (tert-) BPH 34 D F Α Butyl benzyl phthalate Yes D D Butyl toluene BUF 32 A Yes CLS 22 D E A Yes Caprolactam solutions 31 D C Cyclohexane E Α Yes Cyclohexanol 1,3-Cyclopentadiene dimer (molten) CPD 30 D/E Α Yes CMP 32 D D Α Yes IDA 19 D E A Yes iso-Decaldehyde F n-Decaldehyde DAI 19 D A Yes D D A DCE 30 Yes DAX 20 2 D E A Decyl alcohol (all isomers) n-Decylbenzene, see Alkyl(C9+)benzenes DBZ 32 D E DAA 20 2 D D Yes Diacetone alcohol DPA 34 D Ε Yes ortho-Dibutyl phthalate D D DEB 32 Yes Diethylbenzene 40 2 D F Diethylene glycol DEG Yes D C DBL 30 Yes Diisobutylene D DIK 18 D Yes Diisobutyl ketone DIX 32 D E Yes Diisopropylbenzene (all isomers) DTL D E Yes Dimethyl phthalate E Dioctyl phthalate DPN 30 D D Yes Dipentene D D/E Α Yes DIL 32 Diphenyl 33 D E A Yes Diphenyl, Diphenyl ether mixtures DDO D A Yes Diphenyl ether DPF 41  $\{E\}$ DPG 40 D E A Yes Dipropylene glycol DFF 33 D Е Α Yes Distillates: Flashed feed stocks DSR D E Α Distillates: Straight run DOZ 30 D D Yes Dodecene (all isomers) Dodecylbenzene, see Alkyl(C9+)benzenes DDB D E A Yes EEA 34 D D Α Yes 2-Ethoxyethyl acetate 40 D Е Α Yes **ETG** Ethoxy triglycol (crude)

<sup>\*\*\*</sup> This document is only valid when attached to, and referenced by a current, valid Certificate of Inspection. \*\*\*



Dated: 09-Sep-11

Certificate of Inspection

# Cargo Authority Attachment

Vessel Name: KIRBY 28143

Shipyard: WEST GULF MARINE

Hull #: 213

Official #: 1238004

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Cargo Identification	on						Condi	tions of Carriage		
Name	Chem	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	Vapor F App'd (Y or N)	Recovery VCS Category	Special Requirements in 46 CFR 151 General and Mat'ls of	Insp.
Ethyl acetate	ETA	34	D	С		Α	Yes	1	To Food of and Matter	, rem
Ethyl acetoacetate	EAA	34	D	Е		Α	Yes	1		
Ethyl alcohol	EAL	20 <sup>2</sup>	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 <sup>2</sup>	D	Е		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	Е		Α	Yes	1		
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		A	Yes	1		
Furfuryl alcohol	FAL	20 2	D	 E		A	Yes	1		
Gasoline blending stocks: Alkylates	GAK	33		A/C		A	Yes	1		
Gasoline blending stocks: Reformates	GRF	33	D	A/C	V28.7	A	Yes	<u>_</u>		
Gasolines: Automotive (containing not over 4.23 grams lead per gallon)	GAT	33	D	С		A	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		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 <sup>2</sup>	D	E		Α	Yes	1		
Heptane (all isomers), see Alkanes (C6-C9) (all isomers)	нмх		D	С		Α	Yes	1		
Heptanoic acid	HEP	4	D	E		A	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	E		Α	Yes	1		
Hexane (all isomers), see Alkanes (C6-C9)	HXS	31 2	D	B/C		A	Yes	1		
Hexanoic acid	HXO	4	D	E		A	Yes	1		
	HXN	20	D	D		Α	Yes	1		
Hexanol	HEX	30	D	C		A	Yes	2		
Hexene (all isomers)	HXG	20	D	E		A	Yes	1		
Hexylene glycol	IPH	18 <sup>2</sup>	D	E		A	Yes	1		
Isophorone  Jet fuel: JP-4	JPF	33	D	 E		A	Yes	1		
	JPV	33	D	D			Yes	1		
Jet fuel: JP-5 (kerosene, heavy)	KRS	33	D	D		A	Yes	1		
Kerosene	MTT	34	D	D		A	Yes	1		
Methyl acetate			D	C		A	Yes	1		
Methyl alcohol	MAL							1		
Methylamyl acetate	MAC		D	D		A	Yes			
Methylamyl alcohol	MAA		D	D		A	Yes	1		
Methyl amyl ketone	MAK		D	D		A	Yes	1		
Methyl tert-butyl ether	MBE		D	С		A	Yes	1		
Mathed by Additions	MRK	18	13	1 .		Δ	YOS	7		



Certificate of Inspection

## Cargo Authority Attachment

Vessel Name: KIRBY 28143

Shipyard: WEST GULF MARINE

Serial #: C1-1102931

Hull #: 213

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Cargo Identifica	ition					Conditions of Carriage						
						_		Recovery	Consid Regules -1- i- 40 050			
Name Methyl butyrate	Chem Code MBU	Group No 34	Sub Chapter D	Grade C	Hull Type	Tank Groun A	App'd (Y or N) Yes	VCS Category 1	Special Requirements in 46 CFR 151 General and Mat'ls of	Insp. Period		
Methyl ethyl ketone	MEK	18 <sup>2</sup>	D	С		Α	Yes	1				
Methyl heptyl ketone	MHK	18	D	D		Α	Yes	1				
Methyl isobutyl ketone	MIK	18 <sup>2</sup>	D	С		Α	Yes	1				
Methyl naphthalene (molten)	MNA	32	D	E		Α	Yes	1				
Mineral spirits	MNS	33	D	D		Α	Yes	1				
Myrcene	MRE	30	D	D		Α	Yes	1				
Naphtha: Heavy	NAG	33	D	#		Α	Yes	1				
Naphtha: Petroleum	PTN	33	D	#		Α	Yes	1				
Naphtha: Solvent	NSV	33	D	D		Α	Yes	1				
Naphtha: Stoddard solvent	NSS	33	D	D		Α	Yes	1				
Naphtha: Varnish makers and painters (75%)	NVM	33	D	С	77-32-59-1-1	A	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 <sup>2</sup>	D	E		Α	Yes	1				
Nonyl phenol	NNP	21		E		A	Yes	1				
	NPE	40	D	E		A	Yes	1				
Nonyl phenol poly(4+)ethoxylates	OAX	31	D	С		A	Yes	1				
Octane (all isomers), see Alkanes (C6-C9)	OAY	4	D	E	0000.00.000	A	Yes	1				
Octanoic acid (all isomers)	OCX	20 2	D	E		A	Yes	1				
Octanol (all isomers)	OTX	30	D	С		A	Yes	2				
Octene (all isomers)	OTW		D	D/E		A	Yes	1				
Oil, fuel: No. 2	OTD	33	D	D/L		A	Yes	1		-		
Oil, fuel: No. 2-D	OFR		D	D/E		A	Yes	1				
Oil, fuel: No. 4		33				A	Yes	1				
Oil, fuel: No. 5	OFV	33	D	D/E		A		1				
Oil, fuel: No. 6	OSX	33	D	E C/D		A	Yes	1				
Oil, misc: Crude	OIL	33	D	C/D				1				
Oil, misc: Diesel	ODS	33	D	D/E		A	Yes	1				
Oil, misc: Gas, high pour	OGP		D	E		Α.	Yes					
Oil, misc: Lubricating	OLB	33	D	E		A	Yes					
Oil, misc: Residual	ORL	33	D	E		Α	Yes					
Oil, misc: Turbine	ОТВ	33	D	E		Α	Yes					
Pentane (all isomers)	PTY	31	D	Α		Α	Yes					
Pentene (all isomers)	PTX	30	D	Α		A	Yes					
n-Pentyl propionate	PPE	34	D	D		Α	Yes					
alpha-Pinene	PIO	30	D	D		Α	Yes	1				
beta-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		A	Yes					
Polybutene	PLB	30	D	E		Α	Yes					
Polypropylene glycol	PGC	40	D	E		Α	Yes	1				
iso-Propyl acetate	IAC	34	D	С		Α	Yes	1				
n-Propyl acetate	PAT	34	D	С		Α	Yes	1				
iso-Propyl alcohol	IPA	20 2	D	С		Α	Yes	1				
n-Propyl alcohol	PAL	20 <sup>2</sup>	D	С		А	Yes	1				
Propylbenzene (all isomers)	PBY	32	D	D		Α	Yes	1				
iso-Propylcyclohexane	IPX	31	D	D		Α	Yes	3 1				
Propylene glycol	PPG	20 2	D	E		Α	Yes	3 1				



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Cargo Authority Attachment

Vessel Name: KIRBY 28143

Shipyard: WEST GULF

MARINE

Hull #: 213

Official #: 1238004

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Cargo Identific	ation					Conditions of Carriage						
							Vapor F	Recovery				
Name Propylene glycol methyl ether acetate	Chem Code PGN	Compat Group No 34	Sub Chapter D	Grade D	Hull Type	Tank Group A	App'd (Y or N) Yes	VCS Category 1	Special Requirements in 46 CFR 151 General and Mat'ls of	Insp. Period		
Propylene tetramer	PTT	30	D	D		Α	Yes	1				
Sulfolane	SFL	39	D	Е		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	Ε		Α	Yes	1				
Trimethylbenzene (all isomers)	TRE	32	D	{D}		Α	Yes	1				
Trixylenyl phosphate	TRP	34	D	E		Α	Yes	1				
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				



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

Serial #: C1-1102931 Dated:

09-Sep-11

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## Cargo Authority Attachment

Vessel Name: KIRBY 28143

Shipyard: WEST GULF

Hull #: 213

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#### 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

Note 2

Subchapter O

Note 3

Name

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-

Telephone (202) 372-1425

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

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

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

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

Grade

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

A. B. C Note 4 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

NA

The required barge hull classification for carriage of the specified Subchapter O hazardous material cargo, see 46 CFR 151.10-1 Designed to carry products which require the maximum preventive measures to preclude the uncontrolled release of the cargo. See 46 CFR 151.10-1(b)(1). Designed to carry products which require significant preventive measures to preclude the uncontrolled release of cargo. See 46 CFR 151.10-1(b)(3).

Designed to carry products of sufficeint hazard to require a moderate degree of control. See 46 CFR 151.10-1(b)(4).

Not applicable to barges certificated under Subchapter D

#### Conditions of Carriage

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

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

#### Conditions of Carriage

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

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

VCS Category

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 (Polymenzes) Polymenzation and residue build-up of mese dargues can adversely affect the vessel by funding salety components and residue build-up is not 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

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 Category 5

nerizes 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.

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