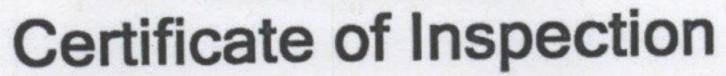


### **United States of America Department of Homeland Security United States Coast Guard**

04 Jan 2024 Certification Date: 04 Jan 2029 **Expiration Date:** 



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 KIRBY 28131	Official Number	IMO Numb	er	Call Sign	Tank	Barge
Hailing Port WILMINGTON, DE	Hull Material Steel	Horse	power	Propulsion		
UNITED STATES						
GALVESTON, TX UNITED STATES	Delivery Date 09Dec2008	Keel Laid Date	Gross Tons R-1619	Net Tons R-1619 I-	DWT	Length R-297.5 I-0
Owner KIRBY INLAND MARINE LP 55 WAUGH DRIVE, SUITE 1000 HOUSTON, TX 77007 UNITED STATES  This vessel must be manned with the		1835 Char UNIT	NAME OF THE PROPERTY OF THE PR	X 77530 ES		

0 Certified Lifeboatmen, 0 Certified Tankermen, 0 HSC Type Rating, and 0 GMDSS Operators.

0 Oilers 0 Chief Engineers O Licensed Mates 0 Masters **O First Assistant Engineers** 0 First Class Pilots 0 Chief Mates 0 Second Assistant Engineers 0 Radio Officers 0 Second Mates **0 Third Assistant Engineers** O Able Seamen 0 Third Mates 0 Licensed Engineers 0 Master First Class Pilot 0 Ordinary Seamen 0 Qualified Member Engineer 0 Deckhands 0 Mate First Class Pilots

In addition, this vessel may carry 0 Passengers, 0 Other Persons in crew, 0 Persons in addition to crew, and no Others. Total Persons allowed: 0

Route Permitted And Conditions Of Operation:

--- Lakes, Bays, and Sounds plus Limited Coastwise---

Also, in fair weather only, not more than twelve (12) miles from shore between St. Marks and Carrabelle, Florida.

This vessel has been granted a fresh water service examination interval in accordance with 46 CFR 31.10-21(a) (2). If this vessel is operated in salt water more than 6 months in any 12 month period, the vessel must be inspected using salt water intervals per 46 CFR 31.10-21(a)(1) and the cognizant OCMI must be notified in writing as soon as this change in status occurs.

This tank barge is participating in the Eighth and Ninth Coast Guard District's Tank Barge Streamlined

\*\*\*SEE NEXT PAGE FOR ADDITIONAL CERTIFICATE INFORMATION\*\*\*

With this Inspection for Certification having been completed at Channelview, TX, UNITED STATES, the Officer in Charge, Marine Inspection, Marine Safety Unit Port Arthur certified the vessel, in all respects, is in conformity with the applicable vessel inspection laws and the rules and regulations prescribed thereunder.

Date	Zone	A/P/R	Signa	Name and Address of the Owner, where the Owner, which is the Owner, where the Owner, which is the Owner,
10/31/24	BTR, LA	A	Daylan	Lacost

This certificate issued by: Zer =1. Woochna? L. L. WOODMAN, CDR, USCG, By direction

Officer in Charge, Manne Inspection

Marine Safety Unit Port Arthur

Inspection Zone



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

Certification Date: 04 Jan 2024 04 Jan 2029 **Expiration Date:** 

### Certificate of Inspection

Vessel Name: KIRBY 28131

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, TX.

#### ---Hull Exams---

Exam Type

Next Exam

Last Exam

Prior Exam

DryDock

30Nov2028

27Nov2018

08Dec2008

Internal Structure

31Jan2029

04Jan2024

27Nov2018

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

Authorization:

FLAMMABLE/COMBUSTIBLE LIQUIDS AND SPECIFIED HAZARDOUS CARGOES

**Total Capacity** 

Highest Grade Type Part151 Regulated

Part153 Regulated Part154 Regulated

28717

Barrels

Yes

Νo

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	686	13.60
2 P/S	829	13.60
3 P/S	727	13.60

#### \*Loading Constraints - Stability\*

Hull Type	Maximum Load (short tons)	Maximum Draft (ft/in)	Max Density (lbs/gal)	Route Description
	3902	10ft 3in	13.60	Lakes, Bays, and Sounds
11	3902	10ft 3in	13.60	Rivers
III	4272	11ft 0in	13.60	Lakes, Bays, and Sounds
	4272	11ft Oin	13.60	Rivers

#### \*Conditions Of Carriage\*

Only those cargoes named in the vessel's Cargo Authority Attachment (CAA), serial #C2-0702494, dated August 13, 2007, may be carried and then only in the tanks indicated.

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.

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.

#### \*Vapor Control Authorization\*

In accordance with 46 CFR 39, excluding part 39.4000, this vessel's vapor collection system (VCS) has been inspected to the plans approved by Marine Safety Center letters, serial #C2-0600288, dated February 6, 2006 and #C1-0601788 dated July 27, 2006, and has been found acceptable for the collection of bulk liquid cargo vapors annotated with "Yes" in the CAA's VCS column of the vessel's CAA.

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



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

Certification Date: 04 Jan 2024 Expiration Date: 04 Jan 2029

### **Certificate of Inspection**

Vessel Name: KIRBY 28131

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

\*Stability and Trim\*

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

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

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

#### \*Cargo Tanks\*

	Internal Exam	1		External Exar	n	
Tank Id	Previous	Last	Next	Previous	Last	Next
1 P/S	08Dec2008	27Nov2018	30Nov2028	-	-	**
2 P/S	08Dec2008	27Nov2018	30Nov2028	-	-	-
3 P/S	08Dec2008	27Nov2018	30Nov2028	•	-	-
			Hydro Test			
Tank Id	Safety Valves	3	Previous	Last	Next	
1 P/S			-	-	-	
2 P/S	-		-	**	-	
3 P/S	-		_	***	-	

#### ---Conditional Portable Fire Extinguisher Requirements---

Required Only During Transfer of Cargo or Operation of Barge Machinery

#### --- Fire Fighting Equipment ---

Number of Fireman Outfits - 0

#### \*Fire Extinguishers - Hand portable and semi-portable\*

Quantity

Class Type

2

40-B

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





Serial #: C2-0702494 Dated: 13-Aug-07

Certificate of Inspection

### Cargo Authority Attachment

Vessel Name: KIRBY 28131 Official #: 1214635

Shipyard: West Gulf Marine

Hull #: 181

46 CFR 151 Tank	Group Chara	cteris	tics													
Tank Group Information	Cargo Identificat	ion	:	Caro		Tanks		Cargo Transfer		Environmental Control		Fire	Special Requirements			
Tnk Grp Tanks in Group	Density Press.	Temp.	Hull Typ	Seq	Туре	Vent	Gauge	Pipe Class	Cont	Tanks	Handling Space	Protection Provided	General	Materials of Construction	Elec Haz	Temp Cont
A #1P/S, #2P/S, #3P/S	13.6 Atmos.	Amb.	H	1ii 2ii	Integral Gravity	PV	Closed	11	G-1	NR	NA	Portable	.50-60, .50-70(a), .50-70(b), .50-73,	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 R	ecovery				
Name		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		Α	Yes	4	.50-70(a), .55-1(e)	G		
Adiponitrile	ADN	37	0	Е	II	Α	Yes	1	No	G		
Alkyl(C7-C9) nitrates	AKN	342	0	NA		Α	No	N/A	.50-81, .50-86	G		
Aminoethylethanolamine	AEE	8	0	E	III	Α	Yes	1	.55-1(b)	G		
Ammonium bisulfite solution (70% or less)	ABX	43 <sup>2</sup>	0	NA	III	Α	No	N/A	.50-73, .56-1(a), (b), (c)	G		
Ammonium hydroxide (28% or less NH3)	AMH	6	0	NA	111	Α	No	N/A	.56-1(a), (b), (c), (f), (g)	G		
Anthracene oil (Coal tar fraction)	AHO	33	0	NA	II	Α	No	N/A	No	G		
Benzene	BNZ	32	0	С	III	Α	Yes	1	.50-60	G		
Benzene or hydrocarbon mixtures (having 10% Benzene or more)	внв	32 <sup>2</sup>	0	С	III	Α	Yes	1	.50-60	G		
Benzene or hydrocarbon mixtures (containing Acetylene and 10% Benzene or more)	ВНА	32 <sup>2</sup>	0	С	III	A	Yes	1	.50-60, .56-1(b), (d), (f), (g)	G		
Benzene, Toluene, Xylene mixtures (10% Benzene or more)	втх	32	0	B/C	III	Α	Yes	1	.50-60	G		
Butyl acrylate (all isomers)	BAR	14	0	D	111	Α	Yes	2	.50-70(a), .50-81(a), (b)	G		
Butyl methacrylate	вмн	14	0	D	111	Α	Yes	2	.50-70(a), .50-81(a), (b)	G		
Butyraldehyde (all isomers)	BAE	19	0	С	111	Α	Yes	1	.55-1(h)	G		
Camphor oil (light)	CPO	18	0	D	Įį.	Α	No	N/A	No	G		
Carbon tetrachloride	CBT	36	0	NA	111	Α	No	N/A	No	G		
Caustic potash solution	CPS	52	0	NA	111	A	No	N/A	.50-73, .55-1(j)	G		
Caustic soda solution	CSS	5 <sup>2</sup>	0	NA	III	A	No	N/A	.50-73, .55-1(j)	G		
Chemical Oil (refined, containing phenolics)	COD	21	0	Ε	II	Α	No	N/A	.50-73	G		
Chlorobenzene	CRB	36	0	D	111	Α	Yes	1	No	G		
Chloroform	CRF	36	0	NA	111	Α	Yes	3	No	G		
Coal tar naphtha solvent	NCT	33	0	D	111	A	Yes	1	.50-73	G		
Creosote	CCN	212	0	E	111	Α	Yes	1	No	Ġ		
Cresols (all isomers)	CRS	21	0	E	111	A	Yes	1	No	G		
Cresylate spent caustic	CSC	5	0	NA	111	A	No	N/A	.50-73, .55-1(b)	Ġ		
Cresylic acid tar	CRX		0	E	111	Α	Yes	1	.55-1(f)	G		
Crotonaldehyde	CTA	192	0	С	11	A	Yes	4	.56-1(h)	G		
Crude hydrocarbon feedstock (containing Butyraldehydes and Ethylpropyl acrolein)	CHG		0	С	111	Α	No	N/A	No	G		
Cyclohexanone	ССН	18	0	D	111	Α	Yes	1	.56-1(a), (b)	G		
Cyclohexanone, Cyclohexanol mixture	CYX	18 <sup>2</sup>	0	E	111	Α	Yes	1	.56-1 (b)	G		
Cyclohexylamine	CHA	7	0	D	111	A	Yes	1	.56-1(a), (b), (c), (g)	G		
Cyclopentadiene, Styrene, Benzene mixture	CSB	30	0	D	111	Α	Yes	1	.50-60, .56-1(b)	G		
iso-Decyl acrylate	IAI	14	0	E	111	Α	Yes	2	.50-70(a), .50-81(a), (b), .55-1(c)	G		

<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.



Serial #: C2-0702494 Dated: 13-Aug-07

## Certificate of Inspection

### Cargo Authority Attachment

Vessel Name: KIRBY 28131 Official #: 1214635

Page 2 of 7

Shipyard: West Gulf Marine

Cargo Identification	Cargo Identification										
	<u> </u>	• · · · · · · · · · · · · · · · · · · ·				Conditions of Carriage  Vapor Recovery					
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	
Dichlorobenzene (all isomers)	DBX	36	0	Ε	III	Α	Yes	3	.56-1(a), (b)	G	
1,1-Dichloroethane	DCH	36	0	Ç	III	Α	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	111	Α	No	N/A	No	G	
2,4-Dichlorophenoxyacetic acid, diethanolamine salt solution	DDE	43	0	E	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 <sup>2</sup>	0	E	111	Α	No	N/A	.56-1(a), (b), (c), (g)	G	
1,1-Dichloropropane	DPB	36	0	С	III	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	11	Α	Yes	3	No	G	
1,3-Dichloropropene	DPU	15	0	D	11	Α	Yes	4	No	G	
Dichloropropene, Dichloropropane mixtures	DMX	15	0	С	11	Α	Yes	1	No	G	
Diethanolamine	DEA	8	0	E	III.	Α	Yes	1	.55-1(c)	G	
Diethylamine	DEN	7	0	C	111	Α	Yes	3	.55-1(c)	G	
Diethylenetriamine	DET	72	0	E	111	A	Yes	1	.55-1(c)	G	
Diisobutylamine	DBU	7	0	D		Α	Yes	3	.55-1(c)	G	
Diisopropanolamine	DIP	8	0	E	III	A	Yes	1	.55-1(c)	G	
Diisopropylamine	DIA	7	0	С	II	Α	Yes	3	.55-1(c)	G	
N <sub>1</sub> N-Dimethylacetamide	DAC	10	0	E	III	Α	Yes	3	.56-1(b)	G	
Dimethylethanolamine	DMB		0	D	111	Α	Yes	1	.56-1(b), (c)	G	
Dimethylformamide	DMF	10	0	D	111	Α	Yes	1	.55-1(e)	G	
Di-n-propylamine	DNA	7	0	С	H	Α	Yes	3	.55-1(c)	G	
Dodecyldimethylamine, Tetradecyldimethylamine mixture	DOT	7	0	E		Α	No	N/A	.56-1(b)	G	
Dodecyl diphenyl ether disulfonate solution	DOS		0	#		Α	No	N/A	No	G	
EE Glycol Ether Mixture	EEG	40	0	D	III	Α	No	N/A	No	G	
Ethanolamine	MEA		0	E	111	Α	Yes		.55-1(c)	G	
Ethyl acrylate	EAC	14	0	С	111	Α	Yes		.50-70(a), .50-81(a), (b)	G	
Ethylamine solution (72% or less)	EAN	7	0	Α	11	A	Yes		.55-1(b)	G	
N-Ethylbutylamine	EBA	7	0	D	111	A	Yes		.55-1(b)	G	
N-Ethylcyclohexylamine	ECC			D	111	A	Yes		.55-1(b)	G	
Ethylene cyanohydrin	ETC	20	<del>-</del>	E	111	Α.	Yes		No	G	
Ethylenediamine	EDA	72	- ō		111	A	Yes		.55-1{c}	G	
Ethylene dichloride	EDC		<u>_</u>			A	Yes		No	G	
Ethylene glycol hexyl ether	EGH		0	E		A	No	N/A	No	G	
Ethylene glycol monoalkyl ethers	EGC		- 0	D/E		A	Yes		No	G	
Ethylene glycol propyl ether	EGP	40		E	111	A	Yes		No	G	
2-Ethylhexyl acrylate	EAI	14	0		<u>'''</u> -		Yes		.50-70(a), .50-81(a), (b)	G	
	ETM			D/E	111	A	Yes	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	50-70(a)	G	
Ethyl methacrylate 2-Ethyl-3-propylacrolein	EPA	*****	- 0	E	111	<u>^</u>	Yes		No	G	
2-Etnyl-3-propylacrolein Formaldehyde solution (37% to 50%)	FMS		0	D/E	111		Yes		.55-1(h)	G	
Furfural	FFA	19	0	D	111	^	Yes	<del></del>	.55-1(h)	Ġ	
	GTA		0	NA.	JII	A	No	N/A		G	
Glutaraldehyde solution (50% or less)	HMC	<del>,</del>	- 0	E	111	A A	Yes		.55-1(c)	G	
Hexamethylenediamine solution	HMI	7		C	<u>   </u>	^_	Yes		.56-1(b), (c)	G	
Hexamethyleneimine	HFN		0	c		A	Yes		.50-70(a), .50-81(a), (b)	G	
Hydrocarbon 5-9	IPR	30				A	No	N/A		G	
Isoprene	IPN	30								G	
Isoprene, Pentadiene mixture		·····	0	В	111	A	No	N/A	·	G	
Kraft pulping liquors (free alkali content 3% or more)(including: Black Green, or White liquor)		5	0	NA	111	A	No	N/A	No	G	
Mesityl oxide	MSC			<u>D</u>	- 111	A	Yes		.50-70(a), .50-81(a), (b)	G	
Methyl acrylate	. MAN	1 14	0	С	(11	A	Yes	2	.uv+(0(a), .av-o+(a), (b)	Ÿ	



Serial #: C2-0702494

13-Aug-07

# Certificate of Inspection

### Cargo Authority Attachment

Vessel Name: KIRBY 28131

Official #: 1214635 Page 3 of 7 Shipyard: West Gulf Marine

Cargo Identification	Cargo Identification							Conditions of Carriage					
	Cham	Comen	6		4.1.44	T1		Recovery	0				
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			
Methylcyclopentadiene dimer	MCK	30	0	С	111	A	Yes	1	No	G			
Methyl diethanolamine	MDE	8	0	E	111	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	MMM	l 14	0	С	111	Α	Yes	2	.50-70(a), .50-81(a), (b)	G			
2-Methylpyridine	MPR	9	0	D	111	A	Yes	3	.55-1(c)	G			
alpha-Methylstyrene	MSR	30	0	D	111	Α	Yes	2	50-70(a), 50-81(a), (b)	G			
Morpholine	MPL	72	0	D	111	ΑΑ	Yes	1	.55-1(c)	G			
1- or 2-Nitropropane	NPM	42	0	D	111	A	Yes	1	50-81	G			
1,3-Pentadiene	PDE	30	0	Α	111	Α	Yes	7	.50-70(a), .50-81	G			
Perchloroethylene	PER	36	0	NA	111	Α	No	N/A	No	G			
Polyethylene polyamines	PEB	72	0	Ε	III	Α	Yes	1	.55-1(e)	G			
so-Propanolamine	MPA	8	0	Ε	111	Α	Yes	1	.56-1(c)	G			
Propanolamine (iso-, n-)	PAX	8	0	E		Α	Yes	1	.56-1(b), (c)	G			
iso-Propylamine	IPP	7	0	Α	11	A	No	N/A		G			
Pyridine	PRD	9	0	С	111	Α	Yes	1	.55-1(e)	G			
Sodium acetate, Glycol, Water mixture (3% or more Sodium Hydroxic	de) SAP		0		111	Α	No	N/A	· · · · · · · · · · · · · · · · · · ·	G			
Sodium aluminate solution (45% or less)	SAU	5	0	NA	III	Α	No	N/A	.50-73, .56-1(a), (b), (c)	G			
Sodium chlorate solution (50% or less)	SDD	0 1,2	0	NA	111	Α	No	N/A		G			
Sodium hypochlorite solution (20% or less)	SHQ	5	0	NA	111	Α	No	N/A	.50-73, .56-1(a), (b)	G			
Sodium sulfide, hydrosulfide solution (H2S 15 ppm or less)	SSH	0 1.2	0	NA	111	Α	Yes	. 1	.50-73, .55-1(b)	G			
Sodium sulfide, hydrosulfide solution (H2S greater than 15 ppm but ess than 200 ppm)	SSI	0 1,2	0	NA	111	Α	No	N/A	, .50-73, .55-1(b)	G			
Sodium sulfide, hydrosulfide solution (H2S greater than 200 ppm)	SSJ	0 1.2	0	NA		Α	No	N/A	. 50-73, 55-1(b)	G			
Styrene (crude)	STX		0	- D	111	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	111	Α	No	N/A	No	G			
Tetraethylenepentamine	TTP	7	0	E		Α	Yes	1	.55-1(c)	G			
Tetrahydrofuran	THE	41	0	С	. 111	Α	Yes	1	.50-70(b)	G			
Toluenediamine	TDA	9	0	E	- 11	Α	No	N/A	.50-73, .56-1(a), (b), (c), (g)	G			
1,2,4-Trichlorobenzene	TCB	36	0	E	111	Α	Yes	1	No	G			
1,1,2-Trichloroethane	TCM	36	0	NA		Α	Yes	1	.50-73, .58-1(a)	G			
Trichloroethylene	TCL	36 <sup>2</sup>	O	NA	111	Α	Yes	1	No	G			
1,2,3-Trichloropropane	TCN	36	0	E	H	Α	Yes	3	.50-73, .56-1(a)	G			
Triethanolamine	TEA	8 <sup>2</sup>	0	Ε	111	Α	Yes	1	.55-1(b)	G			
Triethylamine	TEN	7	Ó	С	11	Α	Yes	3	.55-1(e)	G			
Triethylenetetramine	TET	72	O	E	111	Α	Yes	. 1	.55-1(b)	G			
Triphenylborane (10% or less), caustic soda solution	TPB	5	0	NA	111	Α	No	N/A	.56-1(a), (b), (c)	6			
Trisodium phosphate solution	TSP	5	0	NA	111	Α	No	N/A	.50-73, .56-1(a), (c).	G			
Urea, Ammonium nitrate solution (containing more than 2% NH3)	UAS	6	0	NA	111	Α	No	N/A	for the second second second	Ġ			
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	C	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			
Vinyltoluene	VNT	13	0	D	111	Α	Yes	2	50-70(a), 50-81, 58-1(a), (b), (c), (	G			
Subchapter D Cargoes Authorized for Vapor Contr													
Acetone	ACT	182	Ď	С		Α	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	Е		A	Yes	1					
Amyl acetate (all isomers)	AEC	34	D	D		Α	Yes	1					
Amyl alcohol (iso-, n-, sec-, primary)	AAI	20	D	D		Α	Yes	1					



Serial #: C2-0702494

13-Aug-07

## Certificate of Inspection

### Cargo Authority Attachment

Vessel Name: KIRBY 28131 Official #: 1214635

Page 4 of 7

Shipyard: West Gulf Marine

Cargo Identification	Conditions of Carriage									
	T						Vapor F	Recovery		
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	App'd (Y or N)	VCS Category	Special Requirements in 46 CFR 151 General and Mat'ls of	Insp. Period
Benzyl alcohol	BAL	21	D	E		Α	Yes	1		
Brake fluid base mixtures (containing Poly(2-8)alkylene(C2-C3) glycols, Polyalkylene(C2-C10) glycol monoalkyl(C1-C4) ethers, and their borate esters)	BFX	20	Đ	E		Α	Yes	1		
Butyl acetate (all isomers)	BAX	34	D	D		Α	Yes	1		
Butyl alcohol (iso-)	IAL	20 <sup>2</sup>	D	D		Α	Yes	1		
Butyl alcohol (n-)	BAN		D	D		Α	Yes	1		
Butyl alcohol (sec-)	BAS		D	С		Α	Yes	1		
Butyl alcohol (tert-)	BAT		D	Ċ	,	Α	Yes	1		
Butyl benzyl phthalate	BPH	34	D	E		Α	Yes	1		
Butyl toluene	BUE	32	a	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	E	~~~	Α	Yes	1		
Decene	DCE	30	D	D		Α	Yes	1		
Decyl alcohol (all isomers)	DAX	20 2	D	E		Α	Yes	1		<del></del>
n-Decylbenzene, see Alkyl(C9+)benzenes	DBZ	32	D	E		Α	Yes	1		
Diacetone alcohol	DAA	20 ²	D	D		Α	Yes	1		
ortho-Dibutyl phthalate	DPA	34	D	E		Α	Yes	1	****	
Diethylbenzene	DEB	32	D	D		Α	Yes	1		***************************************
Diethylene glycol	DEG	40 <sup>2</sup>	D	E		Α	Yes	1		***************************************
Diisobutylene	DBL	30	D	C		A	Yes	1		
Diisobutyl ketone	DIK	18	D	D		Α	Yes	1		
Diisopropylbenzene (all isomers)	DIX	32	D	E		Α	Yes	1	,	<del></del>
Dimethyl phthalate	DTL	34	D	E		Α	Yes	1		
Dioctyl phthalate	DOP	34	D	E		Α	Yes	1	· · · · · · · · · · · · · · · · · · ·	
Dipentene	DPN	30	D	D		A	Yes	1		
Diphenyl	DIL	32	D	D/E		Α	Yes	1		
Diphenyl, Diphenyl ether mixtures	DDO	33	D	E		A	Yes	1		
Diphenyl ether	DPE	41	D	{E}		Α	Yes	1		·
Dipropylene glycol	DPG	40	D	E		A	Yes	1		
Distillates: Flashed feed stocks	DFF	33	D	E		Α	Yes	1	·····	
Distillates: Straight run	DSR	33	D	E		A	Yes	1		
Dodecene (all isomers)	DOZ	30	D	D		Α	Yes	1		
Dodecylbenzene, see Alkyl(C9+)benzenes	DDB	32	D	E		A	Yes	1		
2-Ethoxyethyl acetate	EEA	34	D	D	***************************************	A	Yes	1		
Ethoxy triglycol (crude)	ETG	40		E		A	Yes	1		
Ethyl acetate	ETA	34	 D	c			Yes	1		
Ethyl acetoacetate	EAA	34	D	Ē		A	Yes	1		
Ethyl alcohol	EAL	202	D	c	······	A	Yes	1		
Ethylbenzene	ETB	32	D	c		A	Yes	1	<del></del>	
Ethyl butanol	EBT	20	D	D			Yes	1		
Ethyl tert-butyl ether	EBE	41	D	c		A	Yes	1		
Ethyl butyrate	EBR	34	D	D		_^_	Yes	1		
Ethyl cyclohexane	ECY	31	D	D		A	Yes	<del>-</del>		
Ethylene glycol	EGL	202	D	E		A	Yes			
Ethylene glycol butyl ether acetate	EMA	34	D	E			Yes	1		
curyrene grycor outyr erner acetate	⊏WA.	J4	U			Α	7 <b>e</b> s		****	



# Certificate of Inspection

### Cargo Authority Attachment

Vessel Name: KIRBY 28131 Official #: 1214635

Page 5 of 7

Shipyard: West Gulf Marine

Serial #:

C2-0702494

13-Aug-07

Cargo Identificatio	Conditions of Carriage									
	Chem	Compat	Sub		Hull	Tank	Vapor I App'd	Recovery VCS	Special Requirements in 46 CFR	Insp.
Name	Code	Group No	Chapter	Grade	Туре	Group	(Y or N)		151 General and Mattis of	Period
Ethylene glycol diacetate	EGY	34	D	E		Α	Yes	1		
Ethylene glycol phenyl ether	EPE	40	D	E		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	ETÉ	32	D	D		Α	Yes	1		
Formamide	FAM	10	D	E		Α	Yes	1		
Furfuryl alcohol	FAL	20 <sup>2</sup>	D	E		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	Ď	A/C		Α	Yes	1	·	***************************************
Gasolines: Straight run	GSR	33	D	A/C		Α	Yes	1	<del>^^^</del>	
Glycerine	GCR	20 <sup>2</sup>	D	E		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	E		Α	Yes	1		
Hexane (all isomers), see Alkanes (C6-C9)	HXS	31 <sup>2</sup>	D	B/C		Α	Yes	1		***************************************
Hexanoic acid	НХО	4	D	E		Α	Yes	1		
Hexanol	HXN	20	D	D		Α	Yes	1		
Hexene (all isomers)	HEX	30	Ď	C		Α	Yes	2		
Hexylene glycol	HXG	20	D	E		Α	Yes	1		
Isophorone	IPH	182	D	E		Α	Yes	1		
Jet fuel: JP-4	JPF	33	D	Ē		Α	Yes	<u>·</u>		
Jet fuel: JP-5 (kerosene, heavy)	JPV	33	D D	D		Α	Yes	1		
Kerosene	KRS	33		D		A	Yes	1		
Methyl acetate	MTT	34	D	D			Yes	1		
Methyl alcohol	MAL	20 2	D	c		^ A	Yes	<u>-</u>		
Methylamyl acetate	MAC	34	D	a		A	Yes	1		
Methylamyl alcohol	MAA	20	D	D		^_	Yes	1		
Methyl amyl ketone	MAK	18	D	D		^_	Yes	1		
Methyl tert-butyl ether	MBE	412	D	c						
***************************************						<u>A</u>	Yes	1		
Methyl butyl ketone	MBK	18 34	D	C		A	Yes	11		v
Methyl butyrate	MBU MEK	34 182	D D	C		A	Yes	1		
Methyl ethyl ketone Methyl heptyl ketone			·			A	Yes	~		
	MHK	18	<u>D</u>	D	·····	A	Yes	1		
Methyl isobutyl ketone	MIK	182	D	C		- A	Yes	1		
Methyl naphthalene (molten)	MNA	32	D	E		_ <u>A</u>	Yes	1		
Mineral spirits	MNS	33	<u>D</u>	D		<u>. A</u>	Yes	1		
Myrcene	MRE	30	<u>D</u>	D		<u>A</u>	Yes	1		
Naphtha: Heavy	NAG	33	D	#		A	Yes	1		
Naphtha: Petroleum	PTN	33	D	#		Α .	Yes	1		
Naphtha: Solvent	NSV	33	<u>D</u>	D		A	Yes	11		
Naphtha: Stoddard solvent	NSS	33	D	D	~~~	A	Yes	1		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Naphtha: Varnish makers and painters (75%)	NVM	33	D	C		A	Yes	1		



Serial #: C2-0702494 Dated:

13-Aug-07

## Certificate of Inspection

### Cargo Authority Attachment

Vessel Name: KIRBY 28131

Official #: 1214635

Page 6 of 7

Shipyard: West Gulf Marine

Cargo Identificati	Cargo Identification									
			<del>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</del>				Vapor f	Recovery		
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	App'd (Y or N)	VCS Category	Special Requirements in 46 CFR 151 General and Mat'ls of	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 <sup>2</sup>	D	E		Α	Yes	1		
Nonyl phenol	NNP	21	D	Ε		Α	Yes	1		
Nonyl phenol poly(4+)ethoxylates	NPE	40	D	Ε	····	Α	Yes	1		
Octane (all isomers), see Alkanes (C6-C9)	OAX	31	D	С		Α	Yes	1		***************************************
Octanoic acid (all isomers)	OAY	4	D	Ε		Α	Yes	1		······
Octanol (all isomers)	OCX	20 <sup>2</sup>	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	É	**********	Α	Yes	1		
Oil, misc: Crude	OIL	33	D	C/D		Α	Yes	1		
Oil, misc: Diesel	ODS	33	D	D/E		A	Yes	1		
Oil, misc: Lubricating	OLB	33	D	E		A	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				A	Yes	5		
Pentene (all isomers)	PTX	30	D	A		A	Yes	5		
alpha-Pinene	PIO	30		D		A	Yes	1		
beta-Pinene	PIP	30	D	D	*******	A	Yes	1		
Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether	PAG	40	D	Ē			Yes	<u>'</u>		
Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether acetate	PAF	34	D	E			Yes	1		
Polybutene	PLB	30	D	E		A	Yes	1		
	PGC	40	D	E		A	Yes	1		
Polypropylene glycol	IAC	34	D	c			Yes	1		
iso-Propyl acetate n-Propyl acetate	PAT	34		c			Yes	1		
	IPA	20 <sup>2</sup>	D	C		A	Yes	1	V	
iso-Propyl alcohol	PAL	20 2	D	<del>-</del>		^_	Yes	<u>'</u>		
n-Propyl alcohol	PBY	32	D	D_			Yes	1		
Propylbenzene (all isomers)	IPX	31	D G	D		A	Yes	1		
iso-Propylcyclohexane	PPG	20 <sup>2</sup>	D	E		A	Yes	1		
Propylene glycol	PGN	34	D	D	***************************************	^A	Yes	<u>'</u>		
Propylene glycol methyl ether acetate	PTT	30	D D	D		A A		1		
Propylene tetramer	SFL	39		E		A	Yes Yes	1		
Sulfolane	TTG	40		 E	***************************************	A	Yes			
Tetraethylene glycol	THN	32	D	 			Yes	<u>'</u>		
Tetrahydronaphthalene		T -	D							<del></del>
Toluene	TOL TCP	32		C E		A	Yes	1		
Tricresyl phosphate (less than 1% of the ortho isomer)		34	D			A	Yes	1		
Triethylbenzene	TEB	32	D	E		Α	Yes	11		
Triethylene glycol	TEG	40	<u>D</u>	<u>E</u>		A	Yes	1		
Triethyl phosphate	TPS	34	D	E (5)		_ A	Yes	1		***************************************
Trimethylbenzene (all isomers)	TRE	32	D	{D}		<u> </u>	Yes	1		
Trixylenyl phosphate	TRP	34	<u>D</u>	E		<u> </u>	Yes	1		
Undecene	UDC	30	D	D/E	-	A	Yes	1		·
1-Undecyl alcohol	UND	20	<u>D</u>	E		A	Yes	1		
Xylenes (ortho-, meta-, para-)	XLX	32	D	D		Α	Yes	11		



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

C2-0702494

Dated: 13-Aug-07

## Certificate of Inspection Cargo Authority Attachment

Vessel Name: KIRBY 28131 Official #: 1214635

Page 7 of 7

Shipyard: West Gulf Mari

Hull #: 181

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

Cargo identification

Chem Code

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

Compatability Group No.

The cargo reactive group number assigned for compatibility determinations in 46 CFR Part 150 Tables I and II. In accordance with 46 CFR 150.130, the Person-in-Charge of the barge is responsible for ensuring that the compatibility requirements of 46 CFR Part 150 are met. Cargoes must be checked for compatibility using the figures, tables, and appendices of 46 CFR 150 in conjunction with the assigned reactive group number.

Note 1 Note 2 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 lart. For additional compatibility information, contact Commandant (CG-3PSO-3), U.S. Coast Guard, 2100 Second Street, SW, Washington, DC 20593-0001. Telephone

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

Subchanter Subchapter D Subchapter O

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

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 H

NΑ

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

#### Conditions of Carriage

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

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

VCS Category: Category 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.

oone

The cargo has not been evaluated/classified for use in vapor control systems.