

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

Certification Date: 25 Oct 2022 **Expiration Date:** 25 Oct 2027

Certificate of Inspection

for a SAFE MANNING DOCUMENT.

Vessel Name	Official P	lumber	IMO Numi	194	Call Sign	Service	
KIRBY 28085	1183	303				Tank (	3arge
Hailing Port	79	Hull Material	Horse	power	Propulsion		ŷ.
WILMINGTON, DE		Steel					
UNITED STATES	6.5						
	X.		<u></u>				
Place Built	Del	very Date	Keel Laid Date	Gross Tons	Net Tons	DWT	Length
ASHLAND CITY, TN	16	Oct2006	29Aug2006	R-1632	R-1632		R-300 0
UNITED STATES	2		J	ŀ	1-		H0 W
Owner			Operato			<del></del>	
KIRBY INLAND MARINE					MARINE LP		
55 WAUGH DRIVE, ST 1	000			0 Market S inelview, TX			
HOUSTON, TX 77007 UNITED STATES	2			ED STATE			
OHILD OIVIED			0.111				
This vessel must be mann 0 Certified Lifeboatmen, 0	ned with the followin Certified Tankerm	g licensed en, 0 HSC	and unlicensed Type Rating,	d Personne and 0 GMD	l. Included in v SS Operators.	which there n	nust be
	O Licensed Mates	0 Chief	Engineers	0.0	)ilers		
0 Masters							
0 Masters 0 Chief Mates	0 First Class Pilots		Assistant Enginee	rs			
		0 First 0 Seco	Assistant Enginee nd Assistant Engil	neers			
0 Chief Mates	O First Class Pilots O Radio Officers O Able Seamen	0 First 0 Seco 0 Third	Assistant Enginee nd Assistant Engine Assistant Engine	neers			
0 Chief Mates 0 Second Mates	First Class Pilots     Radio Officers     Able Seamen     Ordinary Seamen	0 First 0 Seco 0 Third 0 Licen	Assistant Enginee nd Assistant Engine Assistant Engine used Engineers	neers ers			
O Chief Mates O Second Mates O Third Mates O Master First Class Pilot O Mate First Class Pilots	First Class Pilots     Radio Officers     Able Seamen     Ordinary Seamen     Deckhands	0 First 0 Seco 0 Third 0 Licen 0 Quali	Assistant Enginee nd Assistant Engine Assistant Engine sed Engineers ified Member Engineers	neers ers neer			
O Chief Mates O Second Mates O Third Mates O Master First Class Pilot	First Class Pilots     Radio Officers     Able Seamen     Ordinary Seamen     Deckhands	0 First 0 Seco 0 Third 0 Licen 0 Quali	Assistant Enginee nd Assistant Engine Assistant Engine sed Engineers ified Member Engineers	neers ers neer	ons in addition	to crew, and	no Others. Total
0 Chief Mates 0 Second Mates 0 Third Mates 0 Master First Class Pilot 0 Mate First Class Pilots In addition, this vessel ma	First Class Pilots     Radio Officers     Abte Seamen     Ordinary Seamen     Deckhands     carry 0 Passenge	0 First 0 Seco 0 Third 0 Licer 0 Qual rs, 0 Othe	Assistant Enginee nd Assistant Engine Assistant Engine sed Engineers ified Member Engineers	neers ers neer	ons in addition	to crew, and	no Others. Total
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This certificate issued by:

Officer in Charge, Marine Inspection

Inspection Zone

J. H. HART COMMAND

Sector New Orleans

Date

11/14/23

the rules and regulations prescribed thereunder.

Zone

HOU

HOUSTON

Annual/Periodic/Re-Inspection

A/P/R

Signature

Andrew Maharo

JAKE FRANCIS

w direction



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

Certification Date: 25 Oct 2022 **Expiration Date:** 25 Oct 2027

# Certificate of Inspection

Vessel Name: KIRBY 28085

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

### ---Hull Exams---

Exam Type

Next Exam

Last Exam

Prior Exam

DryDock

31Oct2026

02Dec2016

16Oct2006

Internal Structure

31Dec2026

A

13Oct2022

02Dec2016

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

Flammable, Combustible and Specified Hazardous Cargoes

**Total Capacity** 

Units

Highest Grade Type Part151 Regulated

Part153 Regulated Part154 Regulated

28500

Barrels

Yes

No

No

## \*Hazardous Bulk Solids Authority\*

Not Authorized

### \*Loading Constraints - Structural\*

Tank Number	Max Cargo Weight per Tank (short tons)	Maximum Density (lbs/gal)
#1 PORT/STBD	834	13.58
#2 PORT/STBD	839	13.58
#3 PORT/STBD	773	13.58

### \*Loading Constraints - Stability\*

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

### \*Conditions Of Carriage\*

Only those specified hazardous cargoes named in the vessel's Cargo Authority Attachment (CAA), Serial C2-0601234, dated June 08, 2006 and Grade "A" and lower cargoes 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 figures, tables and appendices of 46 CFR 150 in conjunction with the compatibility group numbers from the "COMPAT GRP" 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.

### \*Stability and Trim\*

Cargo tanks must be loaded uniformly whenever a 46 CFR Subchapter "O" cargo is carried; for trim purposes, the weight of cargo in each tank may exceed the uniformly loaded tank cargo weight by at most 5 percent.

The maximum 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.



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# Certificate of Inspection

Vessel Name: KIRBY 28085

In accordance with 46 CFR 39, excluding 46 CFR 39.4000, this vessel's vapor control system has been inspected to the plans approved by Marine Safety Center letter C2-0601234 dated June 8, 2006 and the list of authorized cargoes on the CAA, Serial C2-0601234 dated June 8, 2006 and found acceptable for collection of bulk liquid cargo vapors annotated with "Yes" in the CAA's VCS column.

In accordance with 46 CFR Part 39.1017 and 39.5001(e) this vessel's VCS has been evaluated and approved for multi-breasted tandem loading with other vessels specifically approved to tandem load with this vessel.

## --- Inspection Status ---

### \*Cargo Tanks\*

	Internal Exam			External Exan	n	
Tank Id	Previous	Last	Next	Previous	Last	Next
#1 PORT/STBD	16Oct2006	02Dec2016	31Oct2026		-	-
#2 PORT/STBD	16Oct2006	02Dec2016	31Oct2026	-	-	-
#3 PORT/STBD	16Oct2006	02Dec2016	31Oct2026	-	-	- 1
			Hydro Test			
Tank Id	Safety Valves	6	Previous	Last	Next	
#1 PORT/STBD	-		-		- 7	
#2 PORT/STBD	-		-		-	
#3 PORT/STBD	-		-	-	-	

# --- 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\*\*\*

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



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

Certificate of Inspection

Cargo Authority Attachment

Vessel Name: KIRBY 28085

Shipyard: Trinity, Ashland City

Hull #: 4526

Official #: 1183303

Tank Group Information	Cargo I	dentificati	on		Carac	Tanks Cargo			Cargo Environmental Transfer Control		Environmental Control		Special Requirements				
Tnk Grp Tanks in Group	Density	Press.	Temp.	Hull Typ	Seg	Type	Vent	Gauge	Pipe Class	Cont	Tanks	Handling Space	Protection Provided	General	Materials of Construction		Temp Cont
A #1P/S, #2P/S, #3P/S	13.6	Atmos.	Amb.	11	1ii 2ii	Integral Gravity	PV	Closed	II	G-1	NR ,	NA	Portable	.50-60, .50-70(a), .50-70(b), .50-73, .50-81(a), .50- 81(b),	55-1(b), (c), (e), (f), (h), (j), 56-1(a), (b), (c), (d), (e), (f), (g),	NR	No

Notes: 1. Under Environmental Control, Tanks, NR means that the tank group is suitable only for those cargoes which require no environmental control in the cargo tanks.

- 2. Under Environmental Control, Handling Space, NR means that the tank group is suitable only for those cargoes which require no environmental control in the cargo handling space. NA means that the vessel does not have a cargo control space, and this requirement is not applied.
- 3. Under Electrical Hazard Class, NA means that the tank group is suitable only for those cargoes which have no electrical hazard class requirement. NR means that the vessel has no electrical equipment located in a hazardous location.

List of Authorized Cargoes

Cargo Identification	Cargo Identification						Co	onditio	ns of Carriage
		128			0000000	V		Recovery	
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	App'd (Y or N)	VCS Category	Special Requirements in 46 CFR 15 General and Mat'ls of Construction
uthorized Subchapter O Cargoes									
Acetonitrile	ATN	37	0	. C	111	Α	Yes	3	No
Acrylonitrile	ACN	15 2	0	С	II	Α	Yes	4	.50-70(a), .55-1(e)
Adiponitrile	ADN	37	0	E	. 11	Α	Yes	1	No
Alkyl(C7-C9) nitrates	AKN	34 2	0	NA	111	Α	No	N/A	.50-81, .50-86
Aminoethylethanolamine	AEE	8	0	E	111	Α	Yes	- 1	.55-1(b)
Ammonium bisulfite solution (70% or less)	ABX	43 2	0	NA	Ш	Α	No	N/A	.50-73, .56-1(a), (b), (c)
Ammonium hydroxide (28% or less NH3)	AMH	6	0	NA	III	Α	No	N/A	.56-1(a), (b), (c), (f), (g)
Anthracene oil (Coal tar fraction)	АНО	33	0	NA	H	Α	No	N/A	No
Benzene	BNZ	32	0	С	111	А	Yes	1	.50-60
Benzene or hydrocarbon mixtures (having 10% Benzene or more)	внв	32 2	0	C	Ш	Α	Yes	1	.50-60
Benzene or hydrocarbon mixtures (containing Acetylene and 10% Benzene or more)	ВНА	32 2	0	С	Ш	Α .	Yes	1	.50-60, .56-1(b), (d), (f), (g)
Benzene, Toluene, Xylene mixtures (10% Benzene or more)	BTX	32	0	B/C	III	А	Yes	1	.50-60
Butyl acrylate (all isomers)	BAR	14	0	D	III	Α	Yes	2	.50-70(a), .50-81(a), (b)
Butyl methacrylate	вмн	14	0	D	111	Α	Yes	2	.50-70(a), .50-81(a), (b)
Butyraldehyde (all isomers)	BAE	19	0	С	III	А	Yes	1	.55-1(h)
Camphor oil (light)	CPO	18	0	D	11	A	No	N/A	No
Carbon tetrachloride	CBT	36	0	NA	- 111	Α	No	N/A	No
Caustic potash solution	CPS	5 2	0	NA	111	А	No	N/A	.50-73, .55-1(j)
Caustic soda solution	CSS	5 2	0	NA	111	Α	No	N/A	.50-73, .55-1(j)
Chemical Oil (refined, containing phenolics)	COD	21	0	Е	11	А	No	N/A	.50-73
Chlorobenzene	CRB	36	0	D	111	Α	Yes	1	No
Chloroform	CRF	36	0	Е	111	Α	Yes	3	No
Coal tar naphtha solvent	NCT	33	0	D	III	Α	Yes	1	.50-73
Creosote	CCM	/ 21 2	0	Е	111	А	Yes	1	No
Cresols (all isomers)	CRS	2,1	0	Е	111	Α	Yes	1	No
Cresylate spent caustic	CSC	5	0	NA	111	А	No	N/A	.50-73, .55-1(b)
Cresylic acid tar	CRX		0	Е	III	Α	Yes	1	.55-1(f)
Crotonaldehyde	CTA	19 <sup>2</sup>	0	С	11	Α	Yes	4	.55-1(h)
Crude hydrocarbon feedstock (containing Butyraldehydes and Ethylpropyl acrolein)	CHG	6	0	С	Ш	Α	No	N/A	No
Cyclohexanone	ССН	18	0	D	111	, A	Yes	1	.56-1(a), (b)
Cyclohexanone, Cyclohexanol mixture	CYX	18 <sup>2</sup>	0	E	Ш	Α	Yes	1	.56-1 (b)
Cyclohexylamine	СНА	7	0	D	Ш	Α	Yes	1	.56-1(a), (b), (c), (g)
Cyclopentadiene, Styrene, Benzene mixture	CSB	30	0	D	Ш	Α	Yes	1	.50-60, .56-1(b)
iso-Decyl acrylate	IAI	14	0	E	111	Α	Yes	2	.50-70(a), .50-81(a), (b), .55-1(c)



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# Certificate of Inspection Cargo Authority Attachment

Vessel Name: KIRBY 28085

Official #: 1183303

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Shipyard: Trinity, Ashland City

Cargo Identification			1.0			Conditions of Carriage					
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	Vapor Ri App'd (Y or N)	VCS	Special Requirements in 46 CFR 18 General and Mat'ls of Construction		
Dichlorobenzene (all isomers)	DBX	1/2/25	0	E	Ш	Α	Yes	3	.56-1(a), (b)		
,1-Dichloroethane	DCH	36	0	С	Ш	Α	Yes	1	No		
2,2'-Dichloroethyl ether	DEE	41	0	D	11	А	Yes	-1	.55-1(f)		
Dichloromethane	DCM	1 36	0	NA	111	Α	No	N/A	No		
,4-Dichlorophenoxyacetic acid, diethanolamine salt solution	DDE	43	0	E	111	Α	No	N/A	.56-1(a), (b), (c), (g)		
4.4-Dichlorophenoxyacetic acid, dimethylamine salt solution	DAD	0 1,	2 0	Α	111	Α	No	N/A	.56-1(a), (b), (c), (g)		
,4-Dichlorophenoxyacetic acid, triisopropanolamine salt solution	DTI	43 2	. 0	E	111	Α	No	N/A	.56-1(a), (b), (c), (g)		
,1-Dichloropropane	DPB	36	0	С	111	Α	Yes	3	No		
,2-Dichloropropane	DPP	36	0	C	111	Α	Yes	3	No .		
,3-Dichloropropane	DPC	36	0	С	111	Α	Yes	3	No		
,3-Dichloropropene	DPU	15	0	D	. 11	Α	Yes	4	No		
Dichloropropene, Dichloropropane mixtures	DMX	15	0	С	11	А	Yes	1	No		
Diethanolamine	DEA		0	E	111	Α	Yes	1	.55-1(c)		
Diethylamine	DEN		0	C	Ш	A	Yes	3	.55-1(c)		
Diethylenetriamine	DET	7 2	0	E	111	A	Yes	1	.55-1(c)		
	DBU		0	D	III	A	Yes	3	.55-1(c)		
Diisobutylamine	DIP	8	0	E	III	A	Yes	1	.55-1(c)		
Diisopropanolamine	DIA	7	0	С	11	A	Yes	3	.55-1(c)		
Diisopropylamine			0	E				3	.56-1(b)		
N,N-Dimethylacetamide	DAC				III	A	Yes		.56-1(b), (c)		
Dimethylethanolamine	DME		0	D	111	A	Yes	1	.55-1(e)		
Dimethylformamide	DMF		0	D	111	A	Yes	1	.55-1(c)		
Di-n-propylamine	DNA		0	С	11	Α	Yes	3			
Dodecyldimethylamine, Tetradecyldimethylamine mixture	DOT		0	E	111	Α	No	N/A	.56-1(b)		
Dodecyl diphenyl ether disulfonate solution	DOS		0	#	11	Α	No	N/A	No		
Ethanolamine	MEA	14	0	E	Ш	Α	Yes	1	.55-1(c)		
Ethyl acrylate	EAC	14	0	С	111	Α	Yes	2	.50-70(a), .50-81(a), (b)		
Ethylamine solution (72% or less)	EAN	7	0	Α	П	Α	No	N/A	.55-1(b)		
N-Ethylbutylamine	EBA	7	0	D	111	Α	Yes	3	.55-1(b)		
N-Ethylcyclohexylamine	ECC	7	0	D	111	Α	Yes	1	.55-1(b)		
Ethylene cyanohydrin	ETC	20	0	E	111	A	Yes	1	No		
Ethylenediamine	EDA	7 2	0	D	111	Α	Yes	1	.55-1(c)		
Ethylene dichloride	EDC	36 2	0	C	111	А	Yes	1	No		
Ethylene glycol hexyl ether	EGH	40	0	E	111	А	No	N/A	No		
Ethylene glycol monoalkyl ethers	EGO	40	0	D/E	111	А	Yes	1	No		
Ethylene glycol propyl ether	EGF	40	0	Е	Ш	А	Yes	1	No -		
2-Ethylhexyl acrylate	EAI	14	0	Е	111	А	Yes	2	.50-70(a), .50-81(a), (b)		
Ethyl methacrylate	ETN	1 14	0	D/E	111	Α	Yes	2	.50-70(a)		
2-Ethyl-3-propylacrolein	EPA			E	III	A	Yes	1	No		
Formaldehyde solution (37% to 50%)	FMS		1000	D/E	III	A	Yes	1	.55-1(h)		
Furfural	FFA		0	E	III	A	Yes	1	.55-1(h)		
Glutaraldehyde solution (50% or less)	GTA	0.000	0	NA	III	A	No	N/A	No		
Hexamethylenediamine solution	HMC		0	E	111	A	Yes	1	.55-1(c)		
	HMI		0	С	11	A	Yes	1	.56-1(b), (c)		
Hexamethyleneimine	HFN		0					1	.50-70(a), .50-81(a), (b)		
Hydrocarbon 5-9	800.00			C .	III	Α	Yes				
soprene	IPR	30	0	A	- 111	A	No	N/A			
soprene, Pentadiene mixture	IPN		0	В	III	A	No	N/A			
Kraft pulping liquors (free alkali content 3% or more)(including: Black, Green, or White liquor)	KPL		0	NA	- 111	A	No	N/A			
Mesityl oxide	MSC	D 18 <sup>2</sup>	0	D	111	Α	Yes	1	No ·		
Methyl acrylate	MAN	Л 14	0	С	111	Α	Yes	2	.50-70(a), .50-81(a), (b)		

Serial #: C2-0601234

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# Certificate of Inspection

Cargo Authority Attachment

Vessel Name: KIRBY 28085

Official #: 1183303

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Shipyard: Trinity, Ashland City

Cargo Identification	Cargo Identification						Conditions of Carriage					
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	App'd (Y or N)	VCS Category	Special Requirements in 46 CFR 15 General and Mat'ls of Construction			
Methylcyclopentadiene dimer	MCK	30	0	С	Ш	Α	Yes	1	No			
Methyl diethanolamine	MDE	8	0	E	III	Α	Yes	1	.56-1(b), (c)			
2-Methyl-5-ethylpyridine	MEP	9	0	E	111	Α	Yes	1	.55-1(e)			
Methyl methacrylate	MMN	1 14	0	С	Ш	Α	Yes	2	.50-70(a), .50-81(a), (b)			
2-Methylpyridine	MPR	9	0	D	111	Α	Yes	3	.55-1(c)			
alpha-Methylstyrene	MSR	30	0	D	111	Α	Yes	2	.50-70(a), .50-81(a), (b)			
Morpholine	MPL	7 2	0	D	111	Α	Yes	1	.55-1(c)			
1- or 2-Nitropropane	NPM	42	0	D	- 111	Α	Yes	1	.50-81			
1,3-Pentadiene	PDE	30	0	Α	111	Α	No	N/A	.50-70(a), .50-81			
Perchloroethylene	PER	36	0	NA	Ш	А	No	N/A	No			
Polyethylene polyamines	PEB	7 2	0	Е	III	Α	Yes	1	.55-1(e)			
so-Propanolamine	MPA	8	0	Е	Ш	А	Yes	1	.55-1(c)			
Propanolamine (iso-, n-)	PAX	8	0	E	111	A	Yes	1	.56-1(b), (c)			
so-Propylamine	IPP	7	0	A	- 11	Α	Yes	5	.55-1(c)			
Pyridine	PRD	9	0	C	III	A	Yes		55-1(e)			
Sodium acetate, Glycol, Water mixture (3% or more Sodium Hydroxide)	SAP		0		III	Α	No	N/A	.50-73, .55-1(j)			
Sodium aluminate solution (45% or less)	SAU	5	. 0	NA	111	A	No	N/A	.50-73, .56-1(a), (b), (c)			
Sodium chlorate solution (50% or less)	SDD	0 1		NA	111	A	No	N/A	.50-73			
Sodium hypochlorite solution (20% or less)	SHQ		0	NA	111	A	No	N/A	.50-73, .56-1(a), (b)			
Sodium sulfide, hydrosulfide solution (H2S 15 ppm or less)	SSH	0 1		NA	111	A	Yes	1	.50-73, .55-1(b)			
Sodium sulfide, hydrosulfide solution (H2S greater than 15 ppm but less han 200 ppm)	SSI	0 1		NA	, III	A	No	N/A	.50-73, .55-1(b)			
	SSJ	0 1	2 0	NA	- 11	Α	No	N/A	.50-73, .55-1(b)			
Sodium sulfide, hydrosulfide solution (H2S greater than 200 ppm)	STX	0	0	D	111	A	Yes	2	No			
Styrene (crude)	STY	30	0	D	III	A	Yes	2	.50-70(a), .50-81(a), (b)			
Styrene monomer	TEC	36	0	NA	III	A	No	N/A	No .			
,1,2,2-Tetrachloroethane	TTP	7	0	E	111	A	Yes	1	.55-1(c)			
**Etraethylenepentamine	THE	41	0	C	111	A	Yes	1	.50-70(b)			
Tetrahydrofuran	2777975		-	E	AN SUSTA		70.00	N/A	.50-73, .56-1(a), (b), (c), (g)			
oluenediamine	TDA	9	0		11.	A	No	1	No .			
,2,4-Trichlorobenzene	TCB	36	0	E	111	A	Yes		.50-73, .56-1(a)			
,1,2-Trichloroethane	TCM	100000	0	NA	111	A	Yes	1	No No			
richloroethylene	TCL	36 <sup>2</sup>		NA	. 111	A	Yes	1	.50-73, .56-1(a)			
,2,3-Trichloropropane	TCN		0	E	11	A	Yes	3	.55-1(b)			
Triethanolamine	TEA	8 2		E	111	A	Yes	1	.55-1(e)			
Triethylamine	TEN	7	0	С	11	A	Yes	3				
Friethylenetetramine	TET	7 2		E	III	A	Yes	1	.55-1(b)			
Triphenylborane (10% or less), caustic soda solution	TPB	5	0	NA	111	A	No	N/A	.56-1(a), (b), (c)			
Trisodium phosphate solution	TSP	5	0	NA	- 111	A	No	N/A	.50-73, .56-1(a), (c).			
Urea, Ammonium nitrate solution (containing more than 2% NH3)	UAS		0	NA	111	A	No	N/A	.56-1(b)			
Vanillin black liquor (free alkali content, 3% or more).	VBL	5	0	NA	- 111	A	No	N/A	.50-73, .56-1(a), (c), (g)			
Vinyl acetate	VAM		0	С	111	A	Yes	2	.50-70(a), .50-81(a), (b)			
Vinyl neodecanate	VND		0	E	III	A	No	N/A	.50-70(a), .50-81(a), (b)			
Vinyltoluene	VNT	13	0	D	.111	А	Yes	2	.50-70(a), .50-81, .56-1(a), (b), (c), (g)			
Subchapter D Cargoes Authorized for Vapor Control	- 11											
Acetone	ACT		1000	С		A	Yes					
Acetophenone	ACP		D	E		Α	Yes					
Alcohol(C12-C16) poly(1-6)ethoxylates	APU		D	E		Α	Yes					
Alcohol(C6-C17)(secondary) poly(7-12)ethoxylates	AEB		D	Е		Α	Yes					
Amyl acetate (all isomers)	AEC	34	D	D		Α	Yes	1				

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# Certificate of Inspection Cargo Authority Attachment

Vessel Name: KIRBY 28085 Official #: 1183303

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Shipyard: Trinity, Ashland City

Cargo Identification							Conditions of Carriage					
				100			Vapor Recovery					
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	App'd (Y or N)	VCS Category	Special Requirements in 46 CFR 15 General and Mat'ls of Construction			
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 sisters)	BFX		D	E		A	Yes	1	n n			
Butyl acetate (all isomers)	BAX	34	D	D '		А	Yes	1				
Butyl alcohol (iso-)	IAL	20 2	D	D		А	Yes	1				
Butyl alcohol (n-)	BAN		D	D		Α	Yes	1				
Butyl alcohol (sec-)	BAS		D	С		Α	Yes	1				
Butyl alcohol (tert-)	BAT		D	С		А	Yes	1				
Butyl benzyl phthalate	BPH	34	D	Е		А	Yes	1				
Butyl toluene	BUE	32	D	D		Α	Yes	1				
Caprolactam solutions	CLS	22	D	E		Α	Yes	1				
Cyclohexane	CHX	31	D	С		А	Yes	1				
Cyclohexanol	CHN	20	D	E		Α	Yes	1				
1,3-Cyclopentadiene dimer (molten)	CPD	30	D	D/E		А	Yes	2				
p-Cymene	CMF	32	D	D		Α	Yes	1				
so-Decaldehyde	IDA	19	D	E		Α	Yes	1				
n-Decaldehyde	DAL	19	D	Е		Α	Yes	1				
Decene	DCE	30	D	D		А	Yes	1				
Decyl alcohol (all isomers)	DAX	20 2	D	E		А	Yes	1				
n-Decylbenzene, see Alkyl(C9+)benzenes	DBZ	32	D	Е		Α	Yes	1				
Diacetone alcohol	DAA	20 2	D	Е		Α	Yes	1				
ortho-Dibutyl phthalate	DPA	34	D	E		А	Yes	1				
Diethylbenzene	DEB	32	D	D		Α	Yes	1				
Diethylene glycol	DEG	G 40 <sup>2</sup>	D	E		Α	Yes	- 1	2			
Diisobutylene	DBL	30	D	С		Α	Yes	1				
Diisobutyl ketone	DIK	18	D	D		А	Yes	1				
Diisopropylbenzene (all isomers)	DIX	32	D	E		А	Yes	1				
Dimethyl phthalate	- DTL	34	D	E		Α	Yes	1				
Dioctyl phthalate	DOF	34	D	E		. A	Yes	1				
Dipentene	DPN	1 30	D	D		Α	Yes	1				
Diphenyl	DIL	32	D	D/E		А	Yes	1				
Diphenyl, Diphenyl ether mixtures	DDC	33	D	Е		Α	Yes	1				
Diphenyl ether	DPE	41	D	{E}		А	Yes	1				
Dipropylene glycol	DPG	9 40	D	E		А	Yes	1				
Distillates: Flashed feed stocks	DFF		D	Е		А	Yes	1				
Distillates: Straight run	DSF	1000000	D	Е		А	Yes	1				
Dodecene (all isomers)	DOZ		D	D		А	Yes					
Dodecylbenzene, see Alkyl(C9+)benzenes	DDE		D	E		Α	Yes					
2-Ethoxyethyl acetate	EEA	7.6 5.533	D	D	-	А	Yes					
Ethoxy triglycol (crude)	ETG		D	E		Α	Yes					
Ethyl acetate	ETA	1000	D	С		А	Yes					
Ethyl acetoacetate	EAA		D	E		A	Yes					
Ethyl alcohol	EAL			С	30	Α	Yes					
Ethylbenzene	ETB		D	С		Α	Yes					
Ethyl butanol	EBT	70000	D	D		А	Yes	-				
Ethyl tert-butyl ether	EBE		D	С		А	Yes					
Ethyl butyrate	EBR		D	D		Α	Yes					
Ethyl cyclohexane	ECY		D	D		A	Yes					

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# Certificate of Inspection Cargo Authority Attachment

Vessel Name: KIRBY 28085

Official #: 1183303

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Shipyard: Trinity, Ashland City

Cargo Identification						15.88	Conditions of Carriage					
							Vapor Recovery					
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	App'd (Y or N)	VCS Category	Special Requirements in 46 CFR 15 General and Mat'ls of Construction			
Ethylene glycol	EGL	20 2	D	E		А	Yes	1				
Ethylene glycol butyl ether acetate	EMA	34	D	E		Α	Yes	1				
Ethylene glycol diacetate	EĞY	34	D	E		Α	Yes	1	The Section of the			
Ethylene glycol phenyl ether	EPE	40	D	E		Α	Yes	1				
Ethyl-3-ethoxypropionate	EEP	34	D	E		А	Yes	1				
2-Ethylhexanol	EHX		D	E		А	Yes	1				
Ethyl propionate	EPR		D	С		А	Yes	1	The state of the state of			
Ethyl toluene	ETE	32	D	E		Α	Yes	1				
Formamide	FAM		D	E		Α	Yes	1				
Furfuryl alcohol	FAL	20 2		E		A	Yes	1	The second secon			
Gasoline blending stocks: Alkylates	GAK	1,2757.4	D	A/C		A	Yes	1				
Gasoline blending stocks: Arkylates	GRF		D	A/C		A	Yes	1				
Gasolines: Automotive (containing not over 4.23 grams lead per gallon)	GAT		D	C		A	Yes	1				
	GAV		D	C		A	Yes	1				
Gasolines: Aviation (containing not over 4.86 grams of lead per gallon)	GCS		D	A/C		A	Yes	1				
Gasolines: Casinghead (natural)	GPL	(1)	D	A/C		A	Yes	1				
Gasolines: Polymer	GSR		D	A/C		A	Yes	1				
Gasolines: Straight run	GCF			E		A	Yes	1				
Glycerine		2/ 7/10/	1000				= 1,10,100,00					
Heptane (all isomers), see Alkanes (C6-C9) (all isomers)	HMX		D	С		A	Yes	1				
Heptanoic acid	HEP		D	E D/F		A	Yes	1				
Heptanol (all isomers)	HTX	20000	D	D/E		A	Yes	1				
Heptene (all isomers)	HPX		D	C		A	Yes	2				
Heptyl acetate	HPE		D	D		A	Yes	1				
Hexane (all isomers), see Alkanes (C6-C9)	HXS			B/C		Α	Yes	1				
Hexanoic acid	HXC		D	E		Α	Yes	1				
Hexanol	HXN		D	D		Α	Yes	1				
Hexene (all isomers)	HEX	889	D	С		Α	Yes	2				
Hexylene glycol	HXG		D	E		Α	Yes	1				
Isophorone	IPH	18 <sup>2</sup>		E		Α	Yes	1				
Jet fuel: JP-4	JPF	33	D	E		Α	Yes	1				
Jet fuel: JP-5 (kerosene, heavy)	JPV	33	D	D		Α	Yes	1				
Kerosene	KRS	33	D	D		Α	Yes	1	The state of the s			
Methyl acetate	MTT	34	D	D		Α	Yes	1	· A			
Methyl alcohol	MAL	. 20 2	D	С		Α	Yes	1				
Methylamyl acetate	MAC	34	D	D		Α	Yes	1	The latest the State of the Sta			
Methylamyl alcohol	MAA	4 20	D	D		Α	Yes	1				
Methyl amyl ketone	MAK	( 18	D	D		Α	Yes	1 -				
Methyl tert-butyl ether	MBE	41 2	D	С		Α	Yes	1	and a state of the			
Methyl butyl ketone	MBK	( 18	D	С		А	Yes	1				
Methyl butyrate	MBU	J 34	D	С		Α	Yes	1				
Methyl ethyl ketone	MEK	( 18 2	D	С		Α	Yes	1				
Methyl heptyl ketone	MHK	( 18-	D	D		Α	Yes	1	7 10			
Methyl isobutyl ketone	MIK	18 2	D	С		А	Yes	1				
Methyl naphthalene (molten)	MNA	32	D	E		А	Yes	1				
Mineral spirits	MNS	33	D	D		Α	Yes	1				
Myrcene	MRE	≣ 30	D	D		А	Yes	1				
Naphtha: Heavy	NAC	33	D	#		Α	Yes	. 1				
Naphtha: Petroleum	PTN		D	#		А	Yes	1				
Naphtha: Solvent	NSV		D	D		А	Yes	1				

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# Certificate of Inspection Cargo Authority Attachment

Vessel Name: KIRBY 28085

Official #: 1183303

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Shipyard: Trinity, Ashland City

Cargo Identificatio	n				1	Conditions of Carriage					
	Chem	Compat	Sub		Hull	Tank	Vapor R App'd	ecovery VCS	Special Requirements in 46 CFR 151		
Name	Code	Group No	Chapter	Grade	Туре	Group	(Y or N)		General and Mat'ls of Construction		
Naphtha: Stoddard solvent	NSS	33	D	D		А	Yes	1			
Naphtha: Varnish makers and painters (75%)	NVM		D	С		Α	Yes	1			
Nonane (all isomers), see Alkanes (C6-C9)	NAX		D	D		А	Yes	1			
Nonene (all isomers)	NON		D	D		Α	Yes	2			
Nonyl alcohol (all isomers)	NNS		D	E		А	Yes	1			
Nonyl phenol	NNP		D	E		Α	Yes	1			
Nonyl phenol poly(4+)ethoxylates	NPE	1211111	D	E		A	Yes	1			
Octane (all isomers), see Alkanes (C6-C9)	OAX		D	С		A	Yes	1			
	OAY		D	E		Α	Yes	1			
Octanoic acid (all isomers)	OCX		100	E		A	Yes	1			
Octanol (all isomers)	. OTX		D	C		A	Yes	2			
Octene (all isomers)			D	D/E		A	Yes	1			
Dil, fuel: No. 2	OTM		. D	. D		. A	Yes	1			
Oil, fuel: No. 2-D	OFR			D/E		A	Yes	1			
Oil, fuel: No. 4			D			A	2500000	1	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		
Oil, fuel: No. 5	OFV		D	D/E			Yes				
Oil, fuel: No. 6	OSX		D	E		A	Yes	1			
Dil, misc: Crude	OIL	33	D	C/D		A	Yes	1	<u> </u>		
Dil, misc: Diesel	ODS		D.	D/E		A	Yes	1			
Dil, misc: Lubricating	OLB		D	E		A	Yes	1			
Oil, misc: Residual	ORL		D	E		A	Yes	1			
Oil, misc: Turbine	OTB	1,000	D	E		A	Yes	1			
Pentane (all isomers)	PTY		D	А		Α	Yes	5			
Pentene (all isomers)	PTX		D	А		Α	Yes	5			
alpha-Pinene	PIO	30	D	D		Α	Yes	1			
beta-Pinene	PIP	30	D	D	17	Α	Yes	1	100000000000000000000000000000000000000		
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		А	Yes	1			
Polybutene	PLB	30	D	E		Α	Yes	1	*		
Polypropylene glycol	PGC	40	D	E		Α	Yes	1	No. of the last of		
iso-Propyl acetate	IAC	34	D	С		Α	Yes	1			
n-Propyl acetate	PAT	34	D	C		Α	Yes	1			
iso-Propyl alcohol	IPA	20 2	D	C.		Α	Yes	1			
n-Propyl alcohol	PAL	20 2	D	С		-A	Yes	1			
Propylbenzene (all isomers)	PBY	32	D	D		Α	Yes	1			
iso-Propylcyclohexane	IPX	31	D	D		Α	Yes	1			
Propylene glycol	PPG	20 2	D	E		Α	Yes	1			
Propylene glycol methyl ether acetate	PGN	34	D	D		Α	Yes	1			
Propylene tetramer	PTT	30	D	D		Α	Yes	. 1			
Sulfolane	SFL	39	D	E		Α	Yes	1			
Tetraethylene glycol	TTG		D	Е		А	Yes				
Tetrahydronaphthalene	THN		D	Е		А	Yes				
Toluene	TOL	2	D	С		А	Yes				
Tricresyl phosphate (less than 1% of the ortho isomer)	TCF		D	E		А	Yes				
Triethylbenzene	TEB		D	E		А	Yes				
Triethylene glycol	TEG		D	E		Α	Yes		9		
Triethyl phosphate	TPS		D	E		А	Yes				
Trimethylbenzene (all isomers)	TRE		D	{D}	_	A	Yes				
Trixylenyl phosphate	TRE		D	E		A	Yes				
Undecene	UDO		D	D/E		A	Yes				

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# Certificate of Inspection Cargo Authority Attachment

Vessel Name: KIRBY 28085

Official #: 1183303

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Shipyard: Trinity, Ashland City

Cargo Identification						Conditions of Carriage					
		1			1	Vapor R	Recovery				
Name	Chem Code		Sub Chapter Gr	Hull Type	Tank Group	App'd (Y or N)		Special Requir General and M			
								25.00			
1-Undecyl alcohol	UN	D 20	D	E	А	Yes	1				
Xylenes (ortho-, meta-, para-)	XL>	( 32	D	D	A	Yes	1				

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# Certificate of Inspection

Cargo Authority Attachment

Vessel Name: KIRBY 28085 Official #: 1183303

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Shipyard: Trinity, Ashlan

Hull #: 4526

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

Cargo Identification

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

Compatability Group No.

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

Because of the very high reactivity or unusual conditions of carriage or potential compatibility problems, this product is not assigned to a specific group in the Compatibility

Note 1

Note 2

For additional compatibility information, contact Commandant (G-MSO-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

Subchapter Subchapter D Subchapter O Note 3

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 that grade of cargo.
Flammable liquid cargoes, as defined in 46 CFR 30-10.22

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

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

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

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

Hull Type

NA

The required barge hull classification for carriage of the specified Subchapter O hazardous material cargo, see 46 CFR 151.10-1

Designed to carry products which require the maximum preventive measures to preclude the uncontrolled release of the cargo. See 46 CFR 151.10-1(b)(1). Designed to carry products which require significant preventive measures to preclude the uncontrolled release of cargo. See 46 CFR 151.10-1(b)(3).

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

Not applicable to barges certificated under Subchapter D

#### Conditions of Carriage

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

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

#### Conditions of Carriage

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:

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 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