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	For ships on inter	notions voyages the c						CUMENT	
Vessel Name KIRBY 100	085		Michel Number 1224573	IMO Nun	n <del>e</del> dr	Cell Bign	Service Tank	Barge	
Hasting Port WILMING UNITED S	in the second second	*	Hufi Material Steel	Hors	врожа	Propulsion			
Prace Butt ASHLAND UNITED S	CITY, TN		Delivery Date 11Mar2010	Keel Lato Date 15Feb2010	Gross Tons R-705 I-	Net Tons R-705 I-	DWT	Longin Fc-207,0 1-0	
55 WAUGI	AND MARINE 1 DR STE 1000 I, TX 77007 TATES	LP		1836 Char	Y INLAND I 0 Market St. nelview, TX ED STATES	77530			
This vesses 0 Certified	must be mann Lifeboatmen, 0	ed with the follo Certified Tanks	wing licensed	and unlicensed	Personnel	Included in	which there n	nust be	
0 Masters 0 Chief M 0 Second 0 Third Ma 0 Master F 0 Mate Fin	alas Malos	0 Licensed Mats 0 First Class Pik 0 Radio Officers 0 Able Seamen 0 Ordinary Sean 0 Deckhands	es 0 Chief I ots 0 First A 0 Secon 0 Third A nen 0 Licens 0 Qualifi	Engineers ssistant Engineer d Assistant Engin Assistant Engineer ed Engineers ed Member Engine	0 Oli s eers rs	979		no Olibore 7	atal
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thangs occu his tank t ***SEE NE Vith this Inst	EXT PAGE FOR	cipating in t R ADDITIONA	he Eighth And L CERTIFICA	the cognize Ninth Coast	Suard Dis ATION***	Fict's Ten	Triting as as	nspected w Dr. as this camlined	siny
Date 3/19/2/ 79/23 11/1 24	Annual/Per Zone	iodic/Re-Inspective AVP/R	nder. Stion Signature	This This The second	Conformity y 5 certificate i MN. CO r In Compa, Mainte	d by diraited	Catle vessel in MMANDER New Orleans	nspection la	vs and



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

### Certificate of Inspection

#### Vessel Name: KIRBY 10085

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---Prior Exam Next Exam Last Exam Exam Type 11Mar2010 04Mar2020 04Mar2030 DryDock 30Mar2015 09Mar2020 09Mar2025 Internal Structure --- Liquid/Gas/Solid Cargo Authority/Conditions ---FLAMMABLE/ COMBUSTIBLE LIQUIDS AND SPECIFIED HAZARDOUS CARGOES Authorization: Part151 Regulated Part153 Regulated Part154 Regulated Highest Grade Type **Total Capacity** Units No No 10700 Barrels Α Yes \*Hazardous Bulk Solids Authority\* \*Loading Constraints - Structural\* Maximum Density (lbs/gal) Max Cargo Weight per Tank (short tons) Tank Number 13.57 582 1 13.57 537 2 13.57 533 3 \*Loading Constraints - Stability\* **Route Description** Maximum Draft Max Density Maximum Load Hull Type (lbs/gal) (ft/in) (short tons) R, LBS, LC 0-12 10.82 11 1466 9ft 0in R, LBS, LC 0-12 8ft 9in 11.74 11 1444 R, LBS, LC 0-12 8ft 6in 12.40 1380 11 R, LBS, LC 0-12 12.99 8ft 3in 1305 11 R, LBS, LC 0-12 8ft 0in 13.57 1252 11 R, LBS, LC 0-12 11.03 9ft 6in 1573 Ш R, LBS, LC 0-12 12.07 111 1519 9ft 3in R, LBS, LC 0-12 12.90 9ft 0in 111 1466

#### \*Conditions Of Carriage\*

III

1444

Only Grade "A" and lower cargoes and specified hazardous cargoes named in the vessel's Cargo Authority Attachment (CAA), serial #C1-1104465 dated 07 Dec 2011 may be carried. The specified hazardous cargoes may be carried only in the tanks indicated.

13.57

8ft 9in

R. LBS, LC 0-12

Per 46 CFR 150.130, the person in charge of the vessel is responsible for ensuring the compatibility requirements of 46 CFR 150 are met. Cargoes must be checked for compatibility using figures, tables, and appendices of 46 CFR 150 in conjunction with the reactive group numbers from the "Compat Group No" column listed in the vessel's cargo authority attachment.

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



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

### Certificate of Inspection

Vessel Name: KIRBY 10085

#### \*Vapor Control Authorization\*

Per 46 CFR part 39, excluding part 39.40, this vessel's vapor control system has been inspected to the plans approved by marine safety center letter serial #C1-1000416, dated February 19, 2010, and found acceptable for collection of bulk liquid cargo vapors annotated with "yes" in the CAA's VCS column.

#### \*Stability and Trim\*

The maximum design density of cargo which may be filled to the tank top is 9.99 lbs/gal. For Hull Type II and III, cargoes with higher densities, up to 13.57 lbs/gal, may be carried as slack loads, but shall not exceed the tank weight limits as listed above.

Note: per 46 CFR 151.10-15(c)(2) the maximum tank weights listed above reflect uniform (within 5%) loading at the deepest draft allowed. When carrying subchapter "O" cargoes at shallower drafts, the barge should always be loaded uniformly.

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

\*Fuel Tanks\*

	Internal Exam	inations				
Tank ID	Previous	Last	Next			
Forward Main Deck	-	11Mar2010	-			
*Cargo Tanks*						
	Internal Exam			External Exar	n	
Tank Id	Previous	Last	Next	Previous	Last	Next
1	11Mar2010	09Mar2020	09Mar2030	-	-	-
2	11Mar2010	09Mar2020	09Mar2030	-	-	-
3	11Mar2010	09Mar2020	09Mar2030	-	-	-
			Hydro Test			
Tank Id	Safety Valves		Previous	Last	Next	
1	-		-	11Mar2010	-	
2	-		-	11Mar2010	-	
3	-		-	11Mar2010	-	
Conditional Portab	le Fire Exti	nguisher Re	equirements	S		
Required Only During Transf	er of Cargo or (	Operation of Ba	rge Machinery			
Fire Fighting Equi	pment					
*Fire Extinguishers - Hand	portable and s	emi-portable*				
Quantity		Class Typ	De			
2		B-II				
***END***						
e an	1.1		مى بەر ئىلىكى يېڭى يېتىنى ئۆتىتىنى تەرىپىيى يېتىنى يېتىنى يېتىنى يېتىنى يېتىنى يېتىنى يېتىنى تېتىنى يېتىنى يېت تېتىنى يېتىنى	and a second of the second	and a first a state of a	



Serial #: C1-1104465 Dated: 07-Dec-11

## **Certificate of Inspection**

### Cargo Authority Attachment

Vessel Name: KIRBY 10085

Shipyard: Trinity Ashland City Hull #: 4710

### Official #: 1224573

Tank Group Information		Cargo Identification				Caroo	Tanks			Cargo Transfer		Environmental Control		Fire	Special Requirements			
Tnk Grp	Tanks in Group	Density	Press.	Temp.	Hull Typ	Sea	Туре	Vent	Gauge	Pipe Class	Cont	Tanks	Handling Space	Protection Provided	General	Materials of Construction	Elec Haz	Temp Cont
4	#1,#2,#3	13.6	Atmos.	Amb.	U	1ii 2ii	Integral Gravity	PV	Closed	11	G-1	NR	NA	Portable	50-70(b), .50-73,	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 lanks. that the vessel does not have a cargo control space, and this requirement is not applied.

3. Under Electrical Hazard Class, NA means that the tank group is suitable only for those cargoes which have no electrical hazard class requirement. NR means that the vessel has no electrical equipment located in a hazardous location.

#### List of Authorized Cargoes

Cargo Identificatio	n					Conditions of Carriage						
		1.	1				Vapor R	and the second se				
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	App'd (Y or N)	VCS Category	Special Requirements in 46 CFR 151 General and Mat'ls of	Insp. Period		
Authorized Subchapter O Cargoes			2									
Acetonitrile	ATN	37	0	С	111	A	Yes	3	No	G		
Acrylonitrile	ACN	15 <sup>2</sup>	0	С	11	A	Yes	4	.50-70(a), .55-1(e)	G		
Adiponitrile	ADN	37	0	E	11	A	Yes	1	No	G		
Alkyl(C7-C9) nitrates	AKN	34 2	0	NA	111	A	No	N/A	.50-81, .50-86	G		
Aminoethylethanolamine	AEE	8	0	E	111	A	Yes	1	.55-1(b)	G		
Ammonium bisulfite solution (70% or less)	ABX	43 2	0	NA	111	A	No	N/A	.50-73, .56-1(a), (b), (c)	G		
Ammonium hydroxide (28% or less NH3)	AMH	6	0	NA	111	A	No	N/A	.56-1(a), (b), (c), (f), (g)	G		
Anthracene oil (Coal tar fraction)	AHO	33	0	NA	11	А	No	N/A	No	G		
Benzene	BNZ	32	0	С	111	A	Yes	. 1	.50-60	G		
Benzene or hydrocarbon mixtures (having 10% Benzene or more)	BHB	32 2	0	С	111	A	Yes	1	50-60	G		
Benzene or hydrocarbon mixtures (containing Acetylene and 10% Benzene or more)	BHA	32 2	0	С	111	A	Yes		.50-60, .56-1(b), (d), (f), (g)	G		
Benzene, Toluene, Xylene mixtures (10% Benzene or more)	BTX	32	0	B/C	111	A	Yes	1	50-60	G		
Butyl acrylate (all isomers)	BAR	14	0	D	111	A	Yes		50-70(a), .50-81(a), (b)	G		
Butyl methacrylate	BMH	14	0	D	111	A	Yes		.50-70(a), .50-81(a), (b)	G		
Butyraldehyde (all isomers)	BAE	19	0	С	111	A	Yes		.55-1(h)	G		
Camphor oil (light)	CPO	18	0	D	11	A	No	N/A	No	G		
Carbon tetrachloride	CBT	36	0	NA	111	A	No	N/A		G		
Caustic potash solution	CPS	5 2	0	NA	[]]	A	No	N/A		G		
Caustic soda solution	CSS	5 2	0	NA	111	A	No	N/A		G		
Chemical Oil (refined, containing phenolics)	COD	21	0	E	11	A	No	N/A		G		
Chlorobenzene	CRB	36	0	D	111	A	Yes		No	G		
Chloroform	CRF	36	0	NA	111	A	Yes		No	G		
Coal tar naphtha solvent	NCT	33	0	D	111	A	Yes		.50-73	G		
Creosote	CCW	/ 212	0	E	111	A	Yes		No	G		
Cresols (all isomers)	CRS	21	0	E	111	A	Yes		No	G		
Cresylate spent caustic	CSC	5	0	NA	111	A	No	N/A	.50-73, .55-1(b)	G		
Cresylic acid tar	CRX		0	E	III	A	Yes		.55-1(f)	G		
Crotonaldehyde	CTA	19 2	0	C	II	A	Yes		.55-1(h)	G		
Crude hydrocarbon feedstock (containing Butyraldehydes and Ethylpropyl acrolein)	CHG		0	C	111	A	No	N/A		G		
Cyclohexanone	CCH	18	0	D	111	A	Yes	1	.56-1(a), (b)	G		
Cyclohexanone, Cyclohexanol mixture	CYX	18 2	0	E	111	A	Yes		.56-1 (b)	G		
Cyclohexylamine	CHA	7	0	D	10	A	Yes		.56-1(a), (b), (c), (g)	G		



Serial #: C1-1104465 Dated: 07-Dec-11

### Certificate of Inspection Cargo Authority Attachment

Vessel Name: KIRBY 10085

Official #: 1224573

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Shipyard: Trinity Ashland City Hull #: 4710

Cargo Identificatio	n					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 151 General and Mat'ls of	Insp. Period			
Cyclopentadiene, Styrene, Benzene mixture	CSB	30	0	D	111	A	Yes	1	.50-60, .56-1(b)	G			
iso-Decyl acrylate	IAI	14	0	Е	Ш	А	Yes	2	.50-70(a), .50-81(a), (b), .55-1(c)	G			
Dichlorobenzene (all isomers)	DBX	36	0	E	111	A	Yes	3	.56-1(a), (b)	G			
1,1-Dichloroethane	DCH	36	0	С	111	A	Yes	1	No	G			
2,2'-Dichloroethyl ether	DEE	41	0	D	11	A	Yes	1	.55-1(f)	G			
Dichloromethane	DCM	36	0	NA	111	A	Yes	5	No	G			
2,4-Dichlorophenoxyacetic acid, diethanolamine salt solution	DDE	43	0	Е	111	A	No	N/A	.56-1(a), (b), (c), (g)	G			
2,4-Dichlorophenoxyacetic acid, dimethylamine salt solution	DAD	0 1.2	0	A	111	A	No	N/A	.56-1(a), (b), (c), (g)	G			
2,4-Dichlorophenoxyacetic acid, triisopropanolamine salt solution	DTI	43 <sup>2</sup>	0	Е	111	A	No	N/A	.56-1(a), (b), (c), (g)	G			
1,1-Dichloropropane	DPB	36	0	С	111	A	Yes	3	No	G			
1,2-Dichloropropane	DPP	36	0	С	111	A	Yes	3	No	G			
1,3-Dichloropropane	DPC	36	0	С	III	A	Yes	3	No	G			
1,3-Dichloropropene	DPU	15	0	D	11	А	Yes	4	No	G			
Dichloropropene, Dichloropropane mixtures	DMX	15	0	С	11	А	Yes	1	No	G			
Diethanolamine	DEA	8	0	Е	III	A	Yes	1	.55-1(c)	G			
Diethylamine	DEN	7	0	С	111	A	Yes	3	.55-1(c)	G			
Diethylenetriamine	DET	72	0	E	111	A	Yes	1	.55-1(c)	G			
Diisobutylamine	DBU	7	0	D	111	A	Yes	3	.55-1(c)	G			
Diisopropanolamine	DIP	8	0	E	111	A	Yes	1	.55-1(c)	G			
Diisopropylamine	DIA	7	0	С	11	A	Yes	3	.55-1(c)	G			
N,N-Dimethylacetamide	DAC	10	0	E	111	A	Yes	3	.56-1(b)	G			
Dimethylethanolamine	DMB	8	0	D	111	A	Yes	1	.56-1(b), (c)	G			
Dimethylformamide	DMF	10	0	D	111	A	Yes	1	.55-1(e)	G			
Di-n-propylamine	DNA	7	0	C	11	A	Yes	3	.55-1(c)	G			
Dodecyldimethylamine, Tetradecyldimethylamine mixture	DOT	7	0	E	III	A	No	N/A	.56-1(b)	G			
Dodecyl diphenyl ether disulfonate solution	DOS	43	0	#	11	A	No	N/A		G			
EE Glycol Ether Mixture	EEG		0	D	111	A	No	N/A		G			
Ethanolamine	MEA		0	E	111	A	Yes	1	.55-1(c)	G			
Ethyl acrylate	EAC	14	0	C	111	A	Yes		.50-70(a), .50-81(a), (b)	G			
Ethylamine solution (72% or less)	EAN	7	0	A	11	A	No	N/A		G			
N-Ethylbutylamine	EBA	7	0	D	III	A	Yes	3	.55-1(b)	G			
N-Ethylcyclohexylamine	ECC		0	D	III	A	Yes	1	.55-1(b)	G			
Ethylene cyanohydrin	ETC	20	0	E		A	Yes	1	No	G			
Ethylenediamine	EDA	7 2	0	D	111	A	Yes		.55-1(c)	G			
Ethylene dichloride	EDC		0	C	111	A	Yes	1	No	G			
Ethylene giycol hexyl ether	EGH		0	E		A	No	N/A		G			
Ethylene glycol monoalkyl ethers	EGC		0	D/E		A			No				
Ethylene glycol propyl ether	EGP		0	E			Yes		No	G			
2-Ethylhexyl acrylate	EAI	14	0	E		A	Yes		.50-70(a), .50-81(a), (b)	G			
Ethyl methacrylate	ETM		0			A	Yes	AND A	.50-70(a)	G			
2-Ethyl-3-propylacrolein	EPA			D/E		A	Yes			G			
Formaldehyde solution (37% to 50%)	FMS		0	E	111	A	Yes		No	G			
Furfural	FMS		0	D/E	111	A	Yes		.55-1(h)	G			
Glutaraldehyde solution (50% or less)		19	0	D	111	A	Yes		.55-1(h)	G			
Hexamethylenediamine solution	GTA		0	NA		A	No	N/A		G			
	HMC		0	E	111	A	Yes		.55-1(c)	G			
Hexamethyleneimine	HMI	7	0	C	11	A	Yes		.56-1(b), (c)	G			
Hydrocarbon 5-9	HFN		0	C	111	A	Yes		.50-70(a), .50-81(a), (b)	G			
Isoprene	IPR	30	0	A	111	A	No	N/A	50-70(a), .50-81(a), (b)	G			



Serial #: C1-1104465 Dated: 07-Dec-11

### Certificate of Inspection Cargo Authority Attachment

Vessel Name: KIRBY 10085 Official #: 1224573

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Shipyard: Trinity Ashland City Hull #: 4710

Cargo Identification		Conditions of Carriage								
				-	CONTRACTOR OF		THE REAL PROPERTY AND	ecovery	~	
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	App'd (Y or N)	VCS Category	Special Requirements in 46 CFR 151 General and Mat'ls of	Insp. Period
Isoprene, Pentadiene mixture	IPN		0	В	111	A	No	N/A	.50-70(a), .55-1(c)	G
Kraft pulping liquors (free alkali content 3% or more)(including: Black, Green, or White liquor)	KPL	5	0	NA	111	A	No	N/A	.50-73, .56-1(a), (c), (g)	G
Mesityl oxide	MSO	18 2	0	D	111	А	Yes	1	No	G
Methyl acrylate	MAM	14	0	С	111	А	Yes	2	.50-70(a), .50-81(a), (b)	G
Methylcyclopentadiene dimer	MCK	30	0	С	III	A	Yes	1	No	G
Methyl diethanolamine	MDE	8	0	E	111	A	Yes	1	.56-1(b), (c)	G
2-Methyl-5-ethylpyridine	MEP	9	0	E	111	А	Yes	1	.55-1(e)	G
Methyl methacrylate	MMM	1 14	0	С	111	A	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	A	Yes	2	.50-70(a), .50-81(a), (b)	G
Norpholine	MPL	72	0	D	111	A	Yes	1	.55-1(c)	G
Vitroethane	NTE	42	0	D		А	No	N/A	.50-81, .56-1(b)	G
- or 2-Nitropropane	NPM	42	0	D	111	A	Yes	1	.50-81	G
I,3-Pentadiene	PDE	30	0	A	III	A	No	N/A	.50-70(a), .50-81	G
Perchloroethylene	PER	36	0	NA	Ш	А	No	N/A	No	G
Polyethylene polyamines	PEB	7 2	0	E	111	A	Yes	1	.55-1(e)	G
so-Propanolamine	MPA	8	0	E	111	A	Yes	1	.55-1(c)	G
Propanolamine (iso-, n-)	PAX	8	0	E	111	A	Yes	1	.56-1(b), (c)	G
so-Propylamine	IPP	7	0	A	11	А	Yes	5	.55-1(c)	G
Pyridine	PRD	9	0	С	111	A	Yes	1	.55-1(e)	G
odium acetate, Glycol, Water mixture (3% or more Sodium Hydroxic	le) SAP		0		111	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	2 0	NA	111	А	No	N/A	.50-73	G
Sodium hypochlorite solution (20% or less)	SHQ	5	0	NA	111	A	No	N/A	.50-73, .56-1(a), (b)	G
Sodium sulfide, hydrosulfide solution (H2S 15 ppm or less)	SSH	0 1.2	2 0	NA	111	A	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	2 0	NA	111	A	No	N/A	.50-73, .55-1(b)	G
Sodium sulfide, hydrosulfide solution (H2S greater than 200 ppm)	SSJ	0 1,2	2 0	NA	11	A	No	N/A	.50-73, .55-1(b)	G
Styrene (crude)	STX	5	0	D	111	A	Yes	2	No	G
Styrene monomer	STY	30	0	D	111	A	Yes	2	.50-70(a), .50-81(a), (b)	G
,1,2,2-Tetrachloroethane	TEC	36	0	NA	111	A	No	N/A	No	G
Fetraethylenepentamine	TTP	7	0	E	III	A	Yes	; 1	.55-1(c)	G
Tetrahydrofuran	THF	41	0	С	111	А	Yes	s 1	.50-70(b)	G
Foluenediamine	TDA	9	0	E	11	A	No	N/A	.50-73, .56-1(a), (b), (c), (g)	G
,2,4-Trichlorobenzene	TCB	36	0	Е	111	A	Yes	5 1	No	G
I,1,2-Trichloroethane	TCM	36	0	NA	111	A	Yes	5 1	.50-73, .56-1(a)	G
Frichloroethylene	TCL	36 2	0	NA	111	A	Yes	3 1	No	G
I,2,3-Trichloropropane	TCN	36	0	E	11	A	Yes	3	.50-73, .56-1(a)	G
Friethanolamine	TEA	8 2	0	E	111	A	Yes	s 1	.55-1(b)	G
Friethylamine	TEN	7	0	С	11	A	Yes		.55-1(e)	G
Triethylenetetramine	TET	72	0	E	111	A	Yes		.55-1(b)	G
Friphenylborane (10% or less), caustic soda solution	TPB	5	0	NA	111	A	No	N/A	.56-1(a), (b), (c)	G
Trisodium phosphate solution	TSP	5	0	NA	111	A	No	N/A		G
Jrea, Ammonium nitrate solution (containing more than 2% NH3)	UAS	6	0	NA	111	A	No	N/A		G
/anillin black liquor (free alkali content, 3% or more).	VBL	5	0	NA			No			G
/inyl acetate	VAM		0	С	111		Yes		.50-70(a), .50-81(a), (b)	G
/inyl neodecanate	VND		0	E	III	A	No			G
Vinyltoluene	VNT	13	0	D	111		Yes		.50-70(a), .50-81, .56-1(a), (b), (c), (	G



Serial #: C1-1104465 Dated: 07-Dec-11

### Certificate of Inspection Cargo Authority Attachment

Vessel Name: KIRBY 10085 Official #: 1224573

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Shipyard: Trinity Ashland City Hull #: 4710

Cargo Identification		Conditions of Carriage								
							ANTER DESIGNATION OF	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
Subchapter D Cargoes Authorized for Vapor Contro	ol									
Acetone	ACT	18 <sup>2</sup>	D	С		А	Yes	1		
Acetophenone	ACP	18	D	E		A	Yes	1		
Alcohol(C12-C16) poly(1-6)ethoxylates	APU	20	D	E		А	Yes	1		The second second
Alcohol(C6-C17)(secondary) poly(7-12)ethoxylates	AEB	20	D	E		А	Yes	1	a successive and a successive succes	1000
Amyl acetate (all isomers)	AEC	34	D	D		А	Yes	1		and a
Amyl alcohol (iso-, n-, sec-, primary)	AAI	20	D	D		A	Yes	1		
Benzyl alcohol	BAL	21	D	E		А	Yes	1		
Brake fluid base mixtures (containing Poly(2-8)alkylene(C2-C3) glycols, Polyalkylene(C2-C10) glycol monoalkyl(C1-C4) ethers, and their borate esters)	BFX	20	D	E		A	Yes	1		
Butyl acetate (all isomers)	BAX	34	D	D		A	Yes	1		
Butyl alcohol (iso-)	IAL	20 <sup>2</sup>	D	D		А	Yes	1		
Butyl alcohol (n-)	BAN	20 <sup>2</sup>	D	D		А	Yes	1		1.1
Butyl alcohol (sec-)	BAS	20 <sup>2</sup>	D	С		A	Yes	1		
Butyl alcohol (tert-)	BAT		D	С	a land and	A	Yes	1		
Butyl benzyl phthalate	BPH	34	D	E		A	Yes	1		
Butyl toluene	BUE	32	D	D		А	Yes	1		
Caprolactam solutions	CLS	22	D	E		A	Yes	1		
Cyclohexane	CHX	31	D	С		A	Yes	1		
Cyclohexanol	CHN	20	D	Е		A	Yes	1		
1,3-Cyclopentadiene dimer (molten)	CPD	30	D	D/E		A	Yes	2		19
p-Cymene	CMP	32	D	D		А	Yes	1		20.00
iso-Decaldehyde	IDA	19	D	E		А	Yes	1		
n-Decaldehyde	DAL	19	D	E		A	Yes	1		
Decene	DCE	30	D	D		А	Yes	1	A State of Laboration of La	
Decyl alcohol (all isomers)	DAX	20 2	D	E	1	A	Yes	1		
n-Decylbenzene, see Alkyl(C9+)benzenes	DBZ	32	D	E		A	Yes	1		
Diacetone alcohol	DAA	20 2	D	D		A	Yes	1		1.1.20
ortho-Dibutyl phthalate	DPA	34	D	E		A	Yes	1	A STARLE STARLES AND A STARLES AND A	1999.00
Diethylbenzene	DEB	32	D	D		A	Yes	1		
Diethylene glycol	DEG	40 2	D	E		A	Yes	1		1.7.5
Diisobutylene	DBL	30	D	С		A	Yes	1		
Diisobutyl ketone	DIK	18	D	D		A	Yes	1		
Diisopropylbenzene (all isomers)	DIX	32	D	E		A	Yes			
Dimethyl phthalate	DTL	34	D	E		A	Yes	1		10000
Dioctyl phthalate	DOP		D	E		A	Yes			
Dipentene	DPN		D	D		A	Yes			
Diphenyl	DIL	32	D	D/E		A	Yes			
Diphenyl, Diphenyl ether mixtures	DDO		D	E		A	Yes		201 (1) (1) (1) (1) (1)	
Diphenyl ether	DPE		D	{E}		A	Yes			
Dipropylene glycol	DPG		D	E		A	Yes			-
Distillates: Flashed feed stocks	DFF		D	E		A	Yes			
Distillates: Straight run	DSR		D	E		A	Yes			1
Dodecene (all isomers)	DOZ		D	D		A	Yes			
Dodecylbenzene, see Alkyl(C9+)benzenes	DDB		D	E		A	Yes			
2-Ethoxyethyl acetate	EEA		D	D		A	Yes			-
Ethoxy triglycol (crude)	ETG		D	E		A	Yes			
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## **Certificate of Inspection**

Cargo Authority Attachment

Vessel Name: KIRBY 10085 Official #: 1224573

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Shipyard: Trinity Ashland City Hull #: 4710

Cargo Identificatio		Conditions of Carriage								
		The second second				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. Perio
Ethyl acetate	ETA	34	D	С		A	Yes	1		,
Ethyl acetoacetate	EAA	34	D	E	22.45	А	Yes	1	and the second second	here.
Ethyl alcohol	EAL	20 2	D	С		А	Yes	1	- The state of the	
Ethylbenzene	ETB	32	D	С		А	Yes	1		
Ethyl butanol	EBT	20	D	D	-	А	Yes	1		
Ethyl tert-butyl ether	EBE	41	D	С	- Frank	А	Yes	1		
Ethyl butyrate	EBR	34	D	D		A	Yes	1		
Ethyl cyclohexane	ECY	31	D	D		А	Yes	1		
Ethylene glycol	EGL	20 <sup>2</sup>	D	Е		А	Yes	1		
Ethylene glycol butyl ether acetate	EMA	34	D	E		A	Yes	1	and the second second second	
Ethylene glycol diacetate	EGY	34	D	E		A	Yes	1		
Ethylene glycol phenyl ether	EPE	40	D	E		A	Yes	1		
Ethyl-3-ethoxypropionate	EEP	34	D	D		А	Yes	1		
2-Ethylhexanol	EHX	20	D	E		A	Yes	1		
Ethyl propionate	EPR	34	D	С		A	Yes	1	Rational Contraction	
Ethyl toluene	ETE	32	D	D		А	Yes	1		
Formamide	FAM	10	D	E		А	Yes	1		-
Furfuryl alcohol	FAL	20 2	D	E		A	Yes	1		
Gasoline blending stocks: Alkylates	GAK	33	D	A/C		A	Yes	1	and the second second	
Gasoline blending stocks: Reformates	GRF	33	D	A/C		А	Yes	1		
Gasolines: Automotive (containing not over 4.23 grams lead per gallon)	GAT	33	D	С		A	Yes	1		
Gasolines: Aviation (containing not over 4.86 grams of lead per gallon)	GAV	33	D	С		A	Yes	1	and the state of the state	
Gasolines: Casinghead (natural)	GCS	33	D	A/C		A	Yes	1		
Gasolines: Polymer	GPL	33	D	A/C	-	A	Yes	1		
Gasolines: Straight run	GSR	33	D	A/C	1	A	Yes	1		
Glycerine	GCR	20 2	D	E		A	Yes	1		
Heptane (all isomers), see Alkanes (C6-C9) (all isomers)	нмх	( 31	D	С		A	Yes	1		
Heptanoic acid	HEP	4	D	E	2	A	Yes	1		
Heptanol (all isomers)	HTX	20	D	D/E		A	Yes	1	N	
Heptene (all isomers)	HPX	30	D	С		A	Yes	2		
Heptyl acetate	HPE	34	D	E		A	Yes	i 1		
Hexane (all isomers), see Alkanes (C6-C9)	HXS	31 2	D	B/C		A	Yes	1		
Hexanoic acid	HXC	) 4	D	E		A	Yes	s 1		
Hexanol	HXN		D	D		A	Yes	1		
Hexene (all isomers)	HEX	30	D	С		A	Yes	3 2	The second second	
Hexelee (all isoliteis)	HXC		D	E		A	Yes		1997 To 1997	
Isophorone	IPH		D	E		A	Yes			
Jet fuel: JP-4	JPF		D	E		A	Yes			
Jet fuel: JP-5 (kerosene, heavy)	JPV		D	D		A	Yes		11111	
Kerosene	KRS		D	D	2	A	Ye			
	MTT		D	D		A	Ye			
Methyl acetate	MAL		D	C		A	Ye			
Methyl alcohol	MAG		D	D		A	Ye			-
weinylaniyi acelale	MA		D	D		A	Ye			
Methylamyl alcohol	MAI		D	D		A	Ye			
Methyl amyl ketone	MBI		D	C		A	Ye			
Methyl tert-butyl ether	MBI		D	C	-	A	Ye		State of the state of the	
Methyl butyl ketone	INBI	18	U	C		A	re	5 1		-



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### Certificate of Inspection Cargo Authority Attachment

Vessel Name: KIRBY 10085 Official #: 1224573

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Shipyard: Trinity Ashland City Hull #: 4710

Cargo Identific	Cargo Identification									
	Chart	0					Vapor I		10	
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
Methyl butyrate	MBU	34	D	С		A	Yes	1		
Methyl ethyl ketone	MEK	18 <sup>2</sup>	D	С		A	Yes	1		
Methyl heptyl ketone	MHK	18	D	D	12.5	А	Yes	1		
Methyl isobutyl ketone	MIK	18 <sup>2</sup>	D	С		A	Yes	1		
Methyl naphthalene (molten)	MNA	32	D	E		A	Yes	1		
Mineral spirits	MNS	33	D	D		A	Yes	1		
Myrcene	MRE	30	D	D	1	A	Yes	1		
Naphtha: Heavy	NAG	33	D	#	0.15	A	Yes	1	Contraction of the second	
Naphtha: Petroleum	PTN	33	D	#		A	Yes	1		
Naphtha: Solvent	NSV	33	D	D		A	Yes	1		1.75
Naphtha: Stoddard solvent	NSS	33	D	D		A	Yes	1		
Naphtha: Varnish makers and painters (75%)	NVM	33	D	С		A	Yes	1		1.1
Nonane (all isomers), see Alkanes (C6-C9)	NAX	31	D	D		A	Yes	1		
Nonene (all isomers)	NON	30	D	D		A	Yes	2		
Nonyl alcohol (all isomers)	NNS	20 2	D	E		A	Yes	1		
Nonyl phenol	NNP	21	D	E		A	Yes	1		-
Nonyl phenol poly(4+)ethoxylates	NPE	40	D	E		A	Yes	1		-
Octane (all isomers), see Alkanes (C6-C9)	OAX	31	D	С		A	Yes	1	and the second	
Octanoic acid (all isomers)	OAY	4	D	E		A	Yes	1		-
Octanol (all isomers)	OCX	20 2	D	E		A	Yes	1		- Aller
Octene (all isomers)	OTX	30	D	C	THE P	A	Yes	2	and the first of the second states of the second st	
Oil, fuel: No. 2	OTW	33	D	D/E		A	Yes	1		Service Services
Oil, fuel: No. 2-D	OTD	33	D	D	1	A	Yes	1		
Oil, fuel: No. 4	OFR	33	D	D/E		A	Yes	1		
Oil, fuel: No. 5	OFV	33	D	D/E	-	A	Yes	1		1
Oil, fuel: No. 6	OSX	33	D	E		A	Yes	1		the state
Oil, misc: Crude	OIL	33	D	C/D		A	Yes	1		and the second
Oil, misc: Diesel	ODS	33	D	D/E	-	A	Yes	1		and the
Oil, misc: Gas, high pour	OGP	33	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	and the second	
Oil, misc: Turbine	OTB	33	D	E		A				
Pentane (all isomers)	PTY	31	D	A	1	A	Yes	1		
Pentene (all isomers)	PTX	30	D	A			Yes	5		100 Mar
n-Pentyl propionate	PPE	34	D	D		A	Yes	5		
alpha-Pinene	PIO	34	D	D		A	Yes	1		and the second
beta-Pinene	PIP	30	D	D	No.	A	Yes	1		
Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether				-		A	Yes	1		
	PAG	40	D	E		A	Yes	1		And and a
Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether acetate	PAF	34	D	E		A	Yes	1		C.S. A.
Polybutene Polybropylene glycol	PLB	30	D	E		A	Yes	1		1.1.1.1
	PGC	40	D	E	in the	A	Yes	1		-
iso-Propyl acetate	IAC	34	D	C	El marte	A	Yes	1	and the second second	(
n-Propyl acetate	PAT	34	D	С	-	A	Yes	1		
iso-Propyl alcohol	IPA	20 2	D	С		A	Yes	1		
n-Propyl alcohol	PAL	20 2	D	С		A	Yes	1		
Propylbenzene (all isomers)	PBY	32	D	D	-	A	Yes	1		
iso-Propylcyclohexane	IPX	31	D	D		A	Yes	1		
Propylene glycol	PPG	20 2	D	E		А	Yes	1	And the second standards	



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# Certificate of Inspection

Cargo Authority Attachment

Vessel Name: **KIRBY 10085** Official #: 1224573

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Shipyard: Trinity Ashland City Hull #: 4710

Cargo Identifica	Cargo Identification								Conditions of Carriage							
							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						
Propylene glycol methyl ether acetate	PGN	34	D	D		A	Yes	1								
Propylene tetramer	PTT	30	D	D		A	Yes	1								
Sulfolane	SFL	39	D	E		A	Yes	1								
Tetraethylene glycol	TTG	40	D	E		A	Yes	1								
Tetrahydronaphthalene	THN	32	D	Е		A	Yes	1								
Toluene	TOL	32	D	С		A	Yes	1								
Tricresyl phosphate (less than 1% of the ortho isomer)	TCP	34	D	E		A	Yes	1								
Triethylbenzene	TEB	32	D	Е		A	Yes	1								
Triethylene glycol	TEG	40	D	Е		A	Yes	1								
Triethyl phosphate	TPS	34	D	E		A	Yes	1								
Trimethylbenzene (all isomers)	TRE	32	D	{D}		A	Yes	1		-						
Trixylenyl phosphate	TRP	34	D	E		A	Yes	1								
Undecene	UDC	30	D	D/E		A	Yes	1								
1-Undecyl alcohol	UND	20	D	E		A	Yes	1								
Xylenes (ortho-, meta-, para-)	XLX	32	D	D		A	Yes	1								



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## Certificate of Inspection Cargo Authority Attachment

Vessel Name: KIRBY 10085 Official #: 1224573

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Shipyard: Trinity Ashland Hull #: 4710

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

Cargo Identification	
Name	The proper shipping name as listed in 46 CFR Table 30.25-1, 46 CFR Table 151.05, and 46 CFR Part 153 Table 2.
Chem Code none	The 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 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 Chart. For additional compatibility information, contact Commandant (CG-3PSO-3), U.S. Coast Guard, 2100 Second Street, SW, Washington, DC 20593- 0001. Telephone (202) 372-1425. See Appendix I to 46 CFR Part 150 - exceptions to the compatability chart.
Subchapter	The subchapter in Title 46 Code of Federal Regulations under which the cargo has been classified.
Subchapter D Subchapter O Note 3	Those flammable and combustible liquids listed in 46 CFR Table 30 25-1. Those hazardous cargoes listed in 46 CFR Table 151.05 and 46 CFR Part 153 Table 2. Those cargoes listed in 46 CFR Part 153 Table 2 are non-regulated cargoes when carried in bulk on non-oceangoing barges.
Grade	The cargo classification assigned to each flammable or combustible liquid. Grades inside of "( )" indicate a provisional assignment based upon literature sources which were not verified by manufacturers data. The Person-in-Charge shall verify the cargo grade based on Manufacturers data and ensure that the barge is authorized for
A, B, C	carriage of that grade of cargo. Flammable liquid cargoes, as defined in 46 CFR 30-10.22.
D, E	Combustible liquid cargoes, as defined in 46 CFR 30-10.15
Note 4	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	The required barge hull classification for carriage of the specified Subchapter O hazardous material cargo, see 46 CFR 151.10-1.
ii ii	Designed to carry products which require the maximum preventive measures to preclude the uncontrolled release of the cargo. See 46 CFR 151.10-1(b)(1). Designed to carry products which require significant preventive measures to preclude the uncontrolled release of cargo. See 46 CFR 151.10-1(b)(3).
III NA	Designed to carry products of sufficient hazard to require a moderate degree of control. See 46 CFR 151.10-1(b)(4). Not applicable to barges certificated under Subchapter D.
Conditions of Carriage	
Tank Group	The vessel's tank group (as defined in Section 4) which is authorized for carriage of the named cargo.
Vapor Recovery Approved (Y or N)	Yes: The vessel's VCS has been reviewed and approved by the MSC to control vapors of the specified cargo. No: The vessel's VCS has been reviewed and is not approved by the MSC to control vapors of the specified cargo.
Conditions of Carriage	
Tank Group	The vessel's tank group (as defined under the "46 CFR Tank Group Characteristics" listed on page 1) which is authorized for carriage of the named cargo.
Vapor Recovery	is the cost of carring out (cost of the named cargo,
Approved (Y or N)	Yes: The vessel's VCS has been reviewed and approved by the MSC to control vapors of the specified cargo. No: The vessel's VCS has been reviewed and is not approved by the MSC to control vapors of the specified cargo.
VCS Category:	The specified cargo's provisional classification for vapor control systems.
Category 1	(No additional VCS requirements above those for benzene, gasolines and crude oil) All requirements applying to the handling of oil and hazardous materials in Titles 33 and 46 Code of Federal Regulations (CFR) apply to these cargoes. Those specifically dealing with vapor control systems are in 33 CFR 156.750, 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, Manne 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	(Polymerizes and highly toxic) Must comply with requirements of Categories 1, 2 and 3.
Category 5	(High vapor pressure) VCS pressure drop calculations for cargoes with a vapor pressure greater than 14.7 psia at 115 F must take into account increased vapor-air mixture densities and vapor growth rates as compared to Category 1 cargoes. Consult the Marine Safety Center's VCS Guidelines for further information. This requirement is in addition to the requirements of Category 1.
Category 6	(High vapor pressure and highly toxic) Must comply with requirements of Categories 1, 3 and 5.
Category 7	(High vapor pressure and polymerizes) Must comply with requirements of Categories 1, 2 and 5.
none	
Nono-	The cargo has not been evaluated/classified for use in vapor control systems.