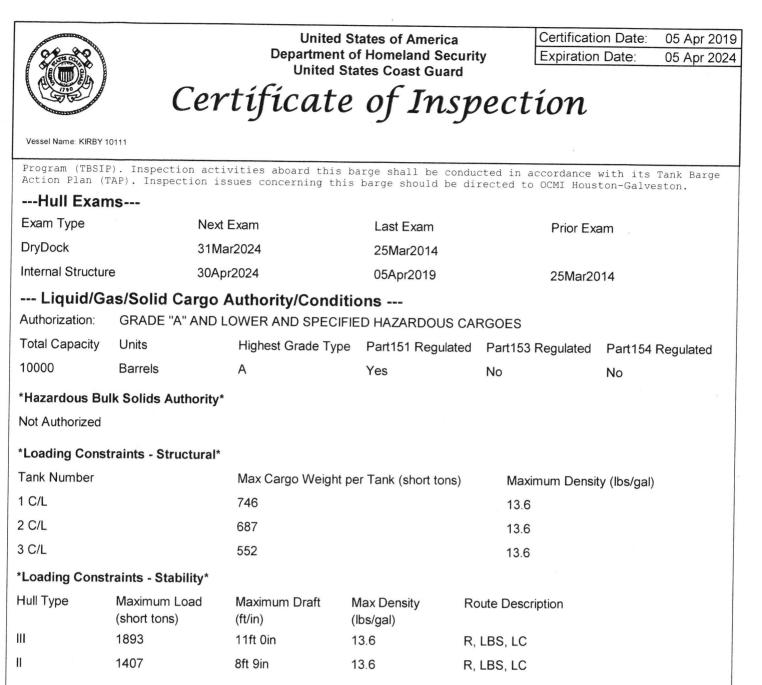
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60 00	United States		Certification Date: 05 Apr 201 Expiration Date: 05 Apr 202
182358	Department of Ho United States		Expiration Date. 00 Apr 202
COR I	Certificate o	t Inspect	tion
For ships on internal	tional voyages this certificate fulfills the requirements of SC	LAS 74 as amended, regulation V/14, 1	or a SAFE MANNING DOCUMENT.
		All and and	
Vessel Name	Official Number IM	Number Call Sign	Service
KIRBY 10111	1251010		Tank Barge
and the second second		A COMPANY AND A COMPANY	
Hailing Port	Hull Material	Horsepower Propuls	100
WILMINGTON, DE		The appendix of the pulse	
	Steel		
UNITED STATES			
Place Built	Delivery Date Keel Laid Dat	e Gross Tons Net Tons	DWT Length
CARUTHERSVILLE, MO		R-705 R-705	R-200.0
	25Mar2014 28Feb20	14 F F	10
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the second second	1000		
Wner		perator	
RIRBY INLAND MARINE LI		IRBY INLAND MARINE.	LP
55 WAUGH DRIVE SUITE		8350 Market St	
HOUSTON, TX 77007		Channelview, TX 77530	
JNITED STATES	and the second se	JNITED STATES	
	d with the following licensed and unlice Certified Tankermen, 0 HSC Type Rati		
			1015.
0 Masters		0 Oilers	
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#### \*Conditions Of Carriage\*

Only those cargoes named in the vessel's Cargo Authority Attachment approved by Marine Safety Center letter Serial No. C1-1401417 dated April 28, 2014 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 reactive group numbers from the "Compat Group No" column listed in the vessel's Cargo Authority Attachment.

When the vessel is carrying cargoes containing greater than 0.5% benzene by volume, the person in charge is responsible for ensuring the provisions of 46 CFR Part 197, Subpart C are applicable.

In accordance with 46 CFR Part 39, excluding part 39.4000, this vessel's vapor collection system has been inspected to the plans approved by Marine Safety Center letter Serial No. C1-1401417 dated April 28, 2014, and has been found acceptable for the collection of bulk liquid cargo vapors annotated with "Yes" in the vessel's Cargo Authority Attachment's VCS column. The VCS System has been approved with a pressure side 6.0 psig P/V valve with Coast Guard Approval 162.017/167/04. The cargo tank top is suitable for a maximum allowable working pressure (MAWP) of 6.5 psi.

The maximum design density of cargo which may be filled to the tank top is 9.99 lbs/gal. Cargoes with higher densities, up to 13.6 lbs/gal, may be carried as slack loads, but shall not exceed the tank weight limits as listed above.

Per 46 CFR 151.10-15(c)(2) the max tank weights listed below 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.



United States of America Department of Homeland Security United States Coast Guard Certification Date: 05 Apr 2019 Expiration Date: 05 Apr 2024

# Certificate of Inspection

Vessel Name: KIRBY 10111

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

*Cargo Tanks*						
	Internal Exam			External Exam	1	
Tank Id	Previous	Last	Next	Previous	Last	Next
1 C/L	-	25Mar2014	31Mar2024	-	-	-
2 C/L	-	25Mar2014	31Mar2024	-	-	-
3 C/L	-	25Mar2014	31Mar2024	-	-	-
			Hydro Test			
Tank Id	Safety Valves		Previous	Last	Next	
1 C/L	-		-	-	-	
2 C/L	-		-	-	-	
3 C/L	-		-	-	-	
	Tank Id 1 C/L 2 C/L 3 C/L Tank Id 1 C/L 2 C/L	Tank IdInternal ExamTank IdPrevious1 C/L-2 C/L-3 C/L-Tank IdSafety Valves1 C/L-2 C/L-	Tank IdInternal ExamTank IdPreviousLast1 C/L-25Mar20142 C/L-25Mar20143 C/L-25Mar2014Tank Id1 C/L-2 C/L	Internal ExamTank IdPreviousLastNext1 C/L-25Mar201431Mar20242 C/L-25Mar201431Mar20243 C/L-25Mar201431Mar2024Tank IdSafety ValvesPrevious1 C/L2 C/L3 C/L	Internal ExamExternal ExamTank IdPreviousLastNextPrevious1 C/L-25Mar201431Mar20242 C/L-25Mar201431Mar20243 C/L-25Mar201431Mar2024Tank IdSafety ValvesPreviousLast-1 C/L2 C/L3 C/L	Internal ExamExternal ExamExternal ExamTank IdPreviousLastNextPreviousLast1 C/L-25Mar201431Mar20242 C/L-25Mar201431Mar20243 C/L-25Mar201431Mar2024Tank IdSafety ValvesHydro Test1 C/L2 C/L3 C/L3 C/L

#### ---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
 B-II

 --Certificate Amendments-- 

 Unit Amending
 Amendment Date
 Amendment Remark

23May2019

Sector Houston/Galveston

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

Corrected CAA Serial #.



Serial # C1-1304363 Dated: 24-Dec-13

## **Certificate of Inspection** Cargo Authority Attachment

Vessel Name: KIRBY 10111 Official #: 1251010

Shipyard: Trinity Caruthersville Hull #: 5998-23

46 CFR 151 Tank					<b>γ</b>	<b></b>	Tonks		Carg	0	Environ		1	Scedal Require	ments		T
Tank Group Information	Cargo	dentificati	un		L		1.00144		Tran	ster	Control		Fire		-	_	
Tat Gran Tanks in Group	Oensity	Pross.	Temp.	Hull Typ		Туро	Vent	Gauge	Pipe Class	Cont	Tanks		Protection Provided	General	Materials of Construction	Elec Haz	Cont
A #1C, #2C, #3C	13.6	Atmos.	Amb.	a	18 20	integral Gravity	PV	Closed	U	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), (l), (h), (j), 56-1(a), (b), (c), (d), (e), (l), (g),	NR	No

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

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 these 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						
	Chem	Comput	Sub Chaoter	Grada	Hull Type	Tank Group	Vapor Ri App'd	VCS Category	Special Requirements in 46 CFR 151 General and Matta of	Insp. Perio		
Name	Code	Group No	Chapter	Giaco	тура	Giocp		CEREGOIS				
uthorized Subchapter O Cargoes						•	Yes	3	Na	0		
Acetonitrile	ATN	37	<u> </u>	<u>с</u>	<u> 181</u> 18	<u>A</u> A	Yes	4	.50-70(a), .55-1(e)	G		
Acrylonitrile	ACN	15 2	0	 E		A	Yes		No	3		
Adiponitrile	ADN	37	0		 	A	No	N/A		G		
Alkyl(C7-C9) nitrates	AKN			E		A	Yes	1	.55-1(0)	G		
Aminoethyleihanolamine	AEE	8	0				No	N/A		G		
Ammonium bisuifile solution (70% or less)	ABX	43 2	0	NA		<u> </u>		N/A		g		
Ammonium hydroxide (28% or less NH3)	AMH		0	NA		A	No	N/A	the second se	G		
Anthracene oli (Coai tar fraction)	AHO		0	NA	11	<u>A</u>	No Yes			G		
Benzene	BNZ	32	0	<u> </u>	<u></u>	<u> </u>	Yes			0		
Benzene or hydrocarbon mixtures (having 10% Benzene or more)	BHB	32 2	0	<u> </u>		<u>A</u>			.50-50, .56-1(b), (6], (7), (6)	<u> </u>		
Senzene or hydrocarbon mixtures (containing Acetylene and 10% Senzene or more)	BHA	32 2	0	С	111	A	Yes			6		
Benzene, Toluene, Xylene mixtures (10% Benzene or more)	BTX	32	0	B/C	ill	<u>A</u>	Yes		.5060	6		
Budyl acrylate (all isomers)	BAR	14	0	D	111	<u>A</u>	Yes		.60-70(a), .50-81(a), (b)			
Butyl methacrylate	BMH	14	0	D	m	A	Yes		.50-70(s), .50-81(s), (b)			
Butyraldehyde (all isomers)	BAE	19	0	<u> </u>	111	A	Yes		.55-1(h)			
Campher oil (light)	CPO	18	0	D		<u>A</u>	· No	N/A		G		
Carbon tetrachioride	CBT	36	0	NA	111	A	No	N/A				
Caustic potash solution	CPS	52	0	NA	m	<u>A</u>	No	N/A				
Caustic soda solution	CSS	5 2	0	NA	10	<u>A</u>	No	N/A	the second s	0		
Chemical Oil (refined, containing phenolics)	COD	21	0	E	[]	<u>A</u>	· No	NA		0		
Chicrobenzene	CRB	36	0	D	111	<u>A</u>	Y69		No	6		
Chlaroform	CRF	36	0	NA	111	<u>A</u>	Yes		No	0		
Coal ter naphtha solvent	NCT	33	0	D	iti	<u>A</u>	Yes		<i>5</i> 0-73	0		
Creosote	CCV	V 21 <sup>2</sup>	0	E	<u>u</u>	A	Yes		Na	0		
Cresols (all isomars)	CRS	21	0	E		<u> </u>	Yes		No			
Cresviate spent caustic	CSC	5	0	NA	III	<u>A</u>	No	N//	A DESCRIPTION OF TAXABLE PARTY OF TAXABLE PARTY OF TAXABLE PARTY.	<u>a</u>		
Cresvic acid tar	CRX		0	E	111	A	Yes		.55-1(1)			
Crotonaldehyde	СТА	19 <sup>2</sup>	0	С	11	A	Yes		.65- 1(h)	<u> </u>		
Crude hydrocarbon feedstock (containing Butyraldehydes and Ethylpropyl acrolein)	CHO	}	0	С	UI	A	No	N//		G		
Cyclohexanone	CCH	1 18	0	D	111	Α	Yes	) 1	.55-1(4), (3)	D		
Cyclohexanche, Cyclohexancl mixture	CYX	18 2	0	E	111	Α	Yes	3 1	.58-1 (0)	G		
Cyclohexylamine	CHA	7	0	D	111	A	Yes	3 1	.50-1(0), (0), (0), (2)	g		



Serial # C1-1304363 Dated: 24-Dec-13

## Certificate of Inspection Cargo Authority Attachment

Vessel Name: KIRBY 10111 Official #: 1251010

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Shipyard: Trinity Caruthersville Huli #: 5986-23

Cargo Identification						Conditions of Carriage						
Name	Cham Code	Compat Group No	Sub Chapter	Grada	Huit Type	Tank Group	Vapor R App'd (Y or N)	VCS	Special Requirements in 46 CFR 151 General and Matts of	Insp. Period		
Cyclopentadiene, Styrene, Benzene mixture	CSB	30	0	D		A	Yes	1	.50-60, .50-1(0)	a		
so-Decyl acrylate	IAI	14	0	E	111	A	Yes	2	.50-70(a), .50-81(a), (b), .55-1(c)	0		
Dichlorobanzene (all isomers)	DBX	36	0	Ε	ttt	A	Yes	3	.56-1(a), (b)	0		
1, 1-Dichlorosthana	DCH	36	0	С	10	A	Yes	1	No	G		
2,2'-Dichlorosthyl ether	DEE	41	0	D	u	A	Yes	1	.55-1(i)	a		
Dichioromethane	DCM	36	0	NA	111	A	Yes	5	No	G		
2,4-Dichlorophenoxyacetic acid, diethanclamine salt solution	DDE	43	0	E	III	A	No	N/A	.50-1(a), (b), (c), ( <u>b</u> )	Q		
2,4-Dichlorophanoxyacetic acid, dimethylamine salt solution	DAD	0 1.	2 0	A	111	A	No	N/A	.50-1(a), (b), (c), (g)	G		
2,4-Dichlorophenoxyacetic acid, trilsopropanolamine sait solution	DTI	43 2	0	E	111	Α	No	N/A	.50-1(2), (0), (0), (3)	G		
1,1-Dichloropropane	DPB	36	0	С	m	A	Yes	3	No	3		
1,2-Dichloropropane	DPP	36	0	С	a a a a a a a a a a a a a a a a a a a	Α	Yes	3	No	<u> </u>		
1,3-Dichloropropane	DPC	38	0	С	III	Α	Yes	3	Na	G		
1,3-Dichloropropene	DPU	15	0	D	11	Α.	Yes	4	No	0		
Dichloropropene, Dichloropropana mixtures	DMX	15	0	C	11	A	Yea	1	No	G		
Diethanolamine	DEA	8	0	E	111	A	Yes	1	.55-1(e)	G		
Diethylamine	DEN	7	0	С	III	A	Yes	3	.55-1(c)	0		
Diethylenetriamthe	DET	72	0	E	III	Α	Yes	1	.55-1(0)	3		
Diisobutyismine	DBU	7	0	D	111	A	Yes	3	.55-1(c)	G		
Disopropanolamine	DIP	8	0	E	m	A	Yes	1	.55-1(c)	G		
Disopropylamina	DIA	7	0	С.	ll	A	Yes	3	.55-1(c)	G		
N.N-Dimethylacetamida	DAC	10	0	E	111	A	Yes	3	.58-1(b)	G		
Dimethylathanolamina	DME	8	0	D	łtt	Α	Yes	1	.58-1(b), (c)	G		
Dimethylformamide	DMF	10	0	D	<b>HI</b>	Α	Yes	11	.55-1(0)	G		
Di-n-propylamine	DNA	7	0	С	11	A	Yes	3	.55-t(c)	0		
Dodecyldimathylamine, Tetradecyldimethylamine mixture	DOT	7	0	E	111	Α	No	N/A		0		
Dodecyl diphenyl ether disulfonate solution	DOS	43	0	#	il	A	No	N/A		٥		
EE Glycol Ether Mixture	EEG	40	0	D	lil	A	No	N/A	the second se	<u>a</u>		
Ethanolamine	MEA	8	0	E	111	Α	Yes	1	.55-1(0)	0		
Ethyl acrylate	EAC	14	0	C	111	<u>A</u>	Yes	2	.50-70(a), .50-81(a), (b)	0		
Ethylamine solution (72% or less)	EAN	7	0	Α	11	<u>A</u>	Yes		.65-1(¢)	<u> </u>		
N-Ethyibutyiamine	EBA	7	0	D	111	A	Yes	3	.55-1(0)	0		
N-Ethylcyclohexylamine	ECC	7	0	D	III	<u> </u>	Yes		.55-1(0) 	٥		
Ethylene cyanohydrin	ETC	20	0	E	10	A	Yes		No	0		
Ethylenediamine	EDA	7 2	0	D	[]]	<u>A</u>	Yes	1	.58-1(c)	0		
Ethylens dichloride	EDC	36 2	0	C	111	A	Yes		No	0		
Ethylena glycol haxyl ether	EGH	40	0	Е	u	Α	No	NA		0		
Ethylene glycol monoalkyl ethers	EGC	: 40	0	D/E	HI.	A	Yes	1	No	0		
Ethylene glycol propyl ether	EGP	40	0	E	at	A	Yes		No	a		
2-Ethylhexyl acrylale	EAI	14	0	E	111	A	Yes		.50-70(a), .50-81(a), (b)	0		
Ethyi methacrylate	ETN	14	0	D/E		<u>A</u>	Yes		.50-70(a)			
2-Ethyl-3-propylacrolain	EPA			E	tu	<u>A</u>	Yes		No	0		
Formaldehyde solution (37% to 50%)	FMS	i 19 ²	0	D/E		Α	Yes		.55-1(h)	<u>a</u>		
Furfurei	FFA	19	0	D	a.	Α	Yes		.56-1(A)	<u> </u>		
Glutaraldehyde solution (50% or leas)	GTA		0	NA	m	<u>A</u>	No	NA				
Hexamethylenediamine solution	НМС	; 7	0	E	10	A	Yes		.55-1(c)	0		
Hexamethylenelmine	HMI	7	0	С	11	A	Yes		.50-1(0), (0)	G		
Hydrocarbon 5-9	HFN		0	С		<u>A</u>	Yes		.50-70(a), .50-81(a), (b)			
Isoprana	IPR	30	0	Α	tti	A	Yes	7	.50-70(a), .50-81(a), (b)	0		



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## **Certificate of Inspection** Cargo Authority Attachment

Vessel Name: KIRBY 10111 Official #: 1251010

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Shipyard: Trinity Caruthersville Huli #: 5986-23

Cargo Identification						Conditions of Carriage					
Name	Cham Code	Compat Group No	Sub Chapter	Grado	Hull Type	Tank Group	App'd	VCS Catagory	Special Requirements in 48 CFR 151 General and Matts of	insp. Period	
Isoprene, Pentadiene mbdure	IPN		0	8	111	A	No	N/A	.50-70(a), .55-1(o)	<u>a</u>	
Kraft pulping liquors (free sikeli content 3% or more)(including: Black, Green, or White liquor)	KPL	5	0	NA	CI I	A	No	N/A	.50-73, .58-1(s), (c), (g)	0	
Mesityi oxide	MSO	18 2	0	D	111	<u>A</u>	Yes	1	No	4	
Methyl acrylate	MAM	14	0	C	111	<u>A</u>	Yes	2	.50-70(a), .50-81(a), (b)	0 0	
Methylcyclopentadiene dimer	MCK	30	0	C		<u>A</u>	Yes		No	<u> </u>	
Methyl disthanciamine	MDE	8	0	E	111	A	Yes	1	.66-1(2). (4)		
2-Methyl-5-ethylpyridine	MEP	9	0	E	111	<u>A</u>	Yes	1	.55-1(a)		
Methyl methacrylate	MMN		0	<u> </u>	[]]	<u> </u>	Yes		.50-70(a), .50-81(a), (b)		
2-Mathylpyridine	MPR		0	D	111	<u>A</u>	Yes		,55-1(c)		
alpha-Methylstyrena	MSR		0	D	111	<u>A</u>	Yes		.50-70(a), .50-81(a), (b)		
Marpholine	MPL	72	0	0	Iff	<u>A</u>	Yes		.55-1(c)		
Nitroethane	NTE	42	0	D		<u> </u>	No	N/A	,60-81, .58-1(b)		
1- or 2-Nitropropane	NPM		0	D	111	<u>A</u>	Yes		.60-81	 	
1,3-Pentadlene	PDE	30	0	A	Ш	<u>A</u>	Yes		.50-70(a), .50-81		
Perchloroethylena	PER		0	NA		<u>A</u>	No	N/A	and a subsection of the second s		
Polyethylene polyamines	PEB	72	0	E	111	A	Yas		.55-((e)	<u>a</u>	
Iso-Propanoiamine	MPA		0	E		A	Yes		.65-1(c)	G	
Propanciamine (iso-, n-)	PAX	8	0	E	111	<u>A</u>	Yes	****	.58-1(b), (c)	8	
Iso-Propylamine	IPP	7	0	<u>A</u>	11	<u>A</u>	Yes		.66-1(a)	 G	
Pyridine	PRD	9	0	C	= = = = = = = = = = = = = = = = = = = =	<u>A</u>	Yes		.55-1(6)	<u> </u>	
Sodium acetate, Glycol, Water mixture (3% or more Sodium Hydroxide)	SAP		0		EII	A	No	N/A			
Sodium aluminate solution (45% or less)	SAU		0	NA	111	<u>A</u>	No	N/A		0	
Sodium chlorate solution (50% or lass)	SDD			NA	EU .	A	No	N/A			
Sodium hypochlorite solution (20% or less)	SHQ		0	NA	<u>(1)</u>	<u>A</u>	No	N/A		<u> </u>	
Sodium suifide, hydrosuifide solution (H2S 15 ppm or less)	SSH	0 1.3		NA	<u> </u>	<u>A</u>	Yes		50-73, 55-1(b) 50-73, 55-1(b)	<u> </u>	
Sodium suffide, hydrosulfide solution (H2S greater than 15 ppm but less than 200 ppm)	SSI	0 1.		NA		Α	No	N/A			
Sodium sulfide, hydrosulfide solution (H2S greater than 200 ppm)	SSJ	0 %		NA	11	Α.	No	N/A	and the second se	6	
Styrens (crude)	STX		0	0	<u> 111</u>	<u> </u>	Yes		No	<u> </u>	
Styrene monomer	STY	30	0	D	1	<u>A</u>	Yes		.50-70(a), .50-81(a), (b)		
1,1,2,2-Teirachloroethane	TEC	36	0	NA	[1]	<u>A</u>	No	NA	.85-1(0)		
Tetraethylenepentemine	TTP	7	0	<u> </u>	III	<u>A</u>	Yes		.50-70(0)		
Tetrahydrofuran	THF	41	0	C	(11	<u>A</u>	Yes			G	
Toluenediamine	TDA	9	0	E	11	<u>A</u>	No	NA	No		
1,2,4-Trichlorobenzene	TCB		<u> </u>	E	111	<u>A</u>	Yes		.50-73, .50-1(#)	<u> </u>	
1,1,2-Trichloroethana	TCM		0	NA	<u> </u>	<u>A</u>	Y69		No	6	
Trichloroethylene	TCL	36 2	0	NA	<u> </u>	<u> </u>	Yes		.50-73, .50-1(4)		
1,2,3-Trichioropropane	TCN		0	E		<u>A</u>	Yes			<u> </u>	
Triethanolamine	TEA			<u>E</u>	- 11	<u> </u>	Yes		.65-1(b) .65-1(c)	G	
Triethylamine	TEN		0	C		<u>A</u>	Yes		.55-1(a)	<u>a</u>	
Triethylanetetramine	TET			E		<u>A</u>	Yes			G	
Triphenyiborane (10% or less), caustic soda solution	TPB		<u> </u>	NA	<u>III</u>	<u> </u>	No	N/A		0	
Trisodium phosphate solution	TSP		0	NA		A	No	N/A		<u> </u>	
Urea, Ammonium nitrate solution (containing more than 2% NH3)	UAS			NA		<u> </u>	No	N/A			
Vaniliin black liquar (free sikall content, 3% or more).	VBL		0	NA	111	<u>A</u>	No	N//	.50-70(a), .50-81(a), (b)	<u>a</u>	
Vinyl acetate	VAN	_		<u></u>		<u>A</u>	Yes				
Vinyl neodecanate	VND	) 13	0	E	10	<u>A</u>	No	N//	· ····································		



Serial #: C1-1304363 Dated: 24-Dec-13

## Certificate of Inspection Cargo Authority Attachment

Vessel Name: KIRBY 10111 Official #: 1251010

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Shipyard: Trinity Caruthersville Huti #: 5996-23

Cargo Identification							Conditions of Carriage						
				1		Vepar Recovery							
Name	Chem Code	Compal Group No	Sub Chapter	Grade	ныя Тура	Tank Group	App'd (Y or N)	VCS Category	Special Requirements in 48 CFR 181 General and Matts of	Insp. Period			
Vinyltsluene	VNT	13	0	D	10	A	Yes	2	.50-70(a), .50-81, .50-1(a), (b), (c), (	G			
Subchapter D Cargoes Authorized for Vapor Contro	ol												
Acetone	ACT	18 2	D	С		A	Yes	1					
Acetophenone	ACP	18	D	E		A	Yes	1					
Alcohol(C12-C16) poly(1-8)ethoxylates	APU	20	D	E		A	Yes	1					
Alcohol(C6-C17)(secondary) poly(7-12)sthoxylates	AEB	20	D	E		A	Yes	1					
Amyi scelale (all isomers)	AEC	34	D	D		A	Yes	1					
Amyi sicohoi (iso-, n-, sec-, primary)	AAJ	20	D	D		A	Yes	1					
Benzyl alcohol	BAL	21	D	E		A	Yes	1					
Brake fluid base mbtures (containing Poly(2-8)aikylene(C2-C3) glycols, Polyaikylene(C2-C10) glycol monosikyl(C1-C4) ethers, and their borate esters)	BFX	20	D	E		A	Yes	1	•				
Butyl acetate (all isomars)	BAX	34	D	D		A	Yes	1					
Butyl alcohol (iso-)	IAL	20 2	D	D		A	Yes	1					
Butyl alcohol (n-)	BAN	20 2	D	D		Α	Yes	1					
Butyl alcohol (sec-)	BAS	20 2	D	C		A	Yes	1					
Butyi sicohol (tert-)	BAT		D	C		<u>A</u>	Yes	1					
Butyi benzyi phthalate	BPH	34	Ð	E		Α	Yes	1					
Butyi toluene	BUE	32	D	D		A	Yes	1					
Caprolactam solutions	CLS	22	D	E		Α	Yes	1					
Cyclohexane	CHX	31	D	C		Α	Yes	1					
Cyclohexanol	CHN	20	D	E		Α	Yes	1					
1.3-Cyclopentadiene dimer (molten)	CPD	30	D	D/E		Α	Yes	2					
р-Сутепа	CMP	32	D	D		Α	Yes	1					
Iso-Decaldehyde	IDA	19	D	Е		Α	Yes	1					
n-Decaldehyde	DAL	19	D	E		A	Yes	1					
Decene	DCE	30	D	D		A	Yes	1					
Decyl alcohol (aŭ isomers)	DAX	20 <sup>2</sup>	D	E		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					
ortho-Dibutyl phihaiste	DPA	34	D	E		A	Yes	1					
Diethylbenzene	DEB	32	D	D		A	Yes	1					
Disthylene glycol	DEG	40 2	D	E		A	Yes	1					
Disobutylene	DBL	30	D	С		A	Yes	1					
Düsobutyi ketona	DIK	18	D	D		A	Yes	1					
Diisopropyibenzene (eri isomers)	DIX	32	D	E		A	Yes	1					
Dimethyl phthalate	DTL	34	D	E		A	Yes	1					
Dioctyl phthalale	DOP	34	D	E		A	Yea	1					
Dipertens	OPN	30	D	D		A	Yes	1					
Diptentil	DIL	32	D	D/E		A	Yes	1	· · · · · · · · · · · · · · · · · · ·				
Diphanyi, Diphenyi sthar mbdures	DDO	33	D	E		A	Yes	1					
Diphenyi ether	DPE	41	D	(E)		A	Yes	1					
Dipropylene glycol	DPG	40	D	E		A	Yes	1					
Distillates: Flashed feed stocks	DFF	33	D	E		A	Yes	1					
Distillates: Straight run	DSR	33	D	E		A	Yes	1					
Dodecane (all isomera)	DOZ	30	D	D		A	Yes	1					
Dodecythenzene, see Alkyi(C9+)benzenes	DDB	32	D	E		A	Yes	1					
Conscinction and sea until as i los manua	EEA	34	0	D		A	Yes	1		-			



Serial #: C1-1304363 Dated: 24-Dec-13

## **Certificate of Inspection** Cargo Authority Attachment

Vessel Name: KIRBY 10111 Official #: 1251010

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Shipyard: Trinity Caruthersville Hull #: 5996-23

Name         Orange Tool (all state for the second of	Cargo Identification						[		Condi	tions of Carriage	·]
Noma         Costa         Prove a         Result of the provided set of the		Т	<u> </u>					Vapor	Recovery		
Bindly addition         ETA         34         D         C         A         Yes         1           Enryl additad         EAA         34         D         E         A         Yes         1           Enryl additad         EAA         34         D         E         A         Yes         1           Elryl additad         EAA         34         D         C         A         Yes         1           Elryl additad         EAA         32         D         C         A         Yes         1           Elryl additad         EBF         32         D         C         A         Yes         1           Elryl additad         EBF         20         D         A         Yes         1<	Name		Compat Group No		Grade					Special Requirements in 48 CFR 151 General and Mattis of	
Link         EAA         34         D         E         A         Yes         1           Ellyd actobrdita         EAA         20         D         C         A         Yes         1           Ellyd actobrd         EFB         20         D         C         A         Yes         1           Ellyd burdend         EBF         20         D         O         A         Yes         1           Ellyd burdend         EBF         20         D         A         Yes         1           Ellyd burdend         EBF         20         D         A         Yes         1           Ellyd burdend         EBF         34         D         A         Yes         1           Ellyd burdendende         EGV         31         D         A         Yes         1           Ellyd burdendendende         EGV         34         0         E         A         Yes         1           Ellyd burdendende         EFF         40         D         A         Yes         1           Ellyd burdendende         EFF         24         D         C         A         Yes         1           Ellyd burdendende         EF	Ethoxy triglycol (crude)	ETG					~				
Dry Bochstein         EAL         20 I         D         C         A         Yes         1           Ethy Jacand         ETB         32         D         C         A         Yes         1           Ethy Jacand         EETB         32         D         D         A         Yes         1           Ethy Journal         EERE         41         D         C         A         Yes         1           Ethy Journal         EERE         41         D         D         A         Yes         1           Ethy Journal         EER         40         D         A         Yes         1           Ethy Journal Journal Journal         EER         40         D         E         A         Yes         1           Ethy Journal Jour	Ethyl acetele						_				
Liny attoma         ETB         32         D         C         A         Yes         1           Ethy barban         ETB         32         D         C         A         Yes         1           Ethy barban         EBF         20         D         A         Yes         1           Ethy barban         EBF         20         D         A         Yes         1           Ethy dydbaran         EGR         34         D         A         Yes         1           Ethy dydbaran         EGV         31         D         D         A         Yes         1           Ethy dydbaran         EGV         31         D         D         A         Yes         1           Ethy dup	Ethyl sceloscelate			_						······	
Entry butand         EDT         20         D         A         Yes         1           Elly totradi         EBE         20         D         D         A         Yes         1           Elly totradi         EBE         41         D         C         A         Yes         1           Elly totradio         EBE         20         D         A         Yes         1           Elly totradio         EGK         10         D         A         Yes         1           Elly totradio         EGK         20         D         E         A         Yes         1           Elly totation         EGK         44         D         E         A         Yes         1           Elly totation         EFE         40         D         E         A         Yes         1           Elly totation         EFE         34         D         C         A         Yes         1           Elly totation         EFE         40         D         E         A         Yes         1           Elly totation         FAH         00         D         E         A         Yes         1           Elly totation </td <td>Ethyl alcohol</td> <td>EAL</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Ethyl alcohol	EAL									
Entry function         EBE         41         D         C         A         Yes         1           Elly duration         EBR         34         D         D         A         Yes         1           Elly duration         EGR         34         D         D         A         Yes         1           Elly duration         EGL         20         P         E         A         Yes         1           Elly duration         EGL         20         P         E         A         Yes         1           Elly duration         EGL         20         P         E         A         Yes         1           Elly duration         EGL         20         P         E         A         Yes         1           Elly duration         EFR         34         D         C         A         Yes         1           Elly duration         EFR         34         D         C         A         Yes         1           Elly duration         FAL         20         D         E         A         Yes         1           Elly duration         FAL         20         D         E         A         Yes	Ethylbenzene	ETB									
Biny Burdy         EBR         34         D         D         A         Yes         1           Elty bydyna         EGV         31         D         D         A         Yes         1           Elty bydyna         EGV         31         D         D         A         Yes         1           Eltydana gydd lacadata         EGV         34         D         E         A         Yes         1           Eltydana gydd lacadata         EGV         34         D         E         A         Yes         1           Eltydana gydd lacadata         EGV         34         D         E         A         Yes         1           Eltydana gydd lacadata         EGV         40         D         A         Yes         1           Eltydana gydd lacadata         EFR         34         D         C         A         Yes         1           Eltydata         EFR         40         D         E         A         Yes         1           Eltydata         EFR         34         D         C         A         Yes         1           Gasafaas/Adambe         FAM         10         D         E         A         Yes	Ethyl butanol										,
Link orgentation         ECV         31         D         D         A         Yess         1           Ethylored glycol         EGL         20 <sup>2</sup> D         E         A         Yess         1           Ethylored glycol disordata         EGA         Yess         1	Ethyl tert-butyl ether										
Endpring Optimization         EGL         20 *         D         E         A         Yess         1           Ethylang Optical Budyl other assistie         EMA         34         D         E         A         Yess         1           Ethylang Optical Biolaestata         EGY         34         D         E         A         Yess         1           Ethylang Optical Biolaestata         EGY         34         D         E         A         Yess         1           Ethylang Optical Biolaestata         EGY         34         D         C         A         Yess         1           Ethylang Optical Biolaestata         EFP         34         D         C         A         Yess         1           Ethylang Optical Biolaestata         EFA         34         D         C         A         Yess         1           Ethylang Optical Biolaesta         EFA         30         D         C         A         Yess         1           Gascines Mandrels Containing and Cores 4.23 grams lead per GAV         33         D         A/C         A         Yess         1           Gascines: Abstan (containing not over 4.28 grams of lead per GAP         33         D         A/C         A         Yess	Elhyi butyrale				-			_			
Entydano gyckol         Exaka         34         D         E         A         Yeas         1           Ethylano gyckol kulyi ather aceuta         EGV         34         D         E         A         Yeas         1           Ethylano gyckol kulyi ather aceuta         EGV         34         D         E         A         Yeas         1           Ethylano gyckol kulyi ather aceuta         EFR         40         D         A         Yeas         1           Ethylano gyckol kulyi ather aceuta         EFR         34         D         C         A         Yeas         1           Ethylano gyckol kulyi ather aceuta         EFR         34         D         C         A         Yeas         1           Ethylano gyckol kulyi ather aceuta         EFR         34         D         E         A         Yeas         1           Selin biterking stocks: Athylata         GAK         33         D         A/C         A         Yeas         1           Gasalines Adaton (containing not over 4.28 grams lead per gation)         GAC         A         Yeas         1           Gasalines Adaton (containing not over 4.28 grams of lead per gation)         GAV         33         D         A/C         A         Yeas	Ethyl cyclohexane										
Endyman gyrol allestetate         EGY         34         D         E         A         Yes         1           Ethylane gyrol allestetate         EFP         40         D         E         A         Yes         1           Ethylane gyrol allestetate         EEP         34         D         D         A         Yes         1           2+Ethylane gyrol allestetate         EEP         34         D         C         A         Yes         1           2+Ethylane gyrol allestetate         EFR         34         D         C         A         Yes         1           2+Ethylane gyrol allestetate         EFE         32         D         D         A         Yes         1           2+Ethylane gyrol allestetate         EFE         32         D         D         A         Yes         1           Classine Standard         FAN         10         D         E         A         Yes         1           Gasolines Xultonic         FAA         10         D         C         A         Yes         1           Gasolines Xultonic (containing atocks: Al3 grams lead per         Gav         33         D         C         A         Yes         1							_				
Environme         EPE         40         D         E         A         Yes         1           Ethyl-and you in henryl ether         EEP         34         D         D         A         Yes         1           Ethyl-and you in henryl ether         EEP         34         D         D         A         Yes         1           Ethyl proplonato         EFR         34         D         C         A         Yes         1           Ethyl proplonato         ETR         32         D         D         A         Yes         1           Furmarnitice         FAL         20 <sup>2</sup> D         E         A         Yes         1           Gaschine blending stocks: Alkylatos         GAK         33 D         AC         A         Yes         1           Gaschine blending stocks: Reformates         GAP         33 D         C         A         Yes         1           Gaschines: Automotive (containing not over 4.36 grams of lead per gation)         GCS         33 D         AC         A         Yes         1           Gaschines: Stright nu         GSR         33 D         AC         A         Yes         1           Gaschines: Stright nu         GSR <t< td=""><td>Ethylene glycol butyl ether acetate</td><td></td><td></td><td></td><td></td><td></td><td></td><td>_</td><td></td><td></td><td></td></t<>	Ethylene glycol butyl ether acetate							_			
Erry Path Synch Provident         EEP         34         D         D         A         Yes         1           2-Etryk-Backmand         Etryk-Backmand         <	Ethylene glycol diacetate										
Litry Production         EntX         20         D         E         A         Yes         1           Ethy productation         EPR         34         D         C         A         Yes         1           Ethy productation         ETE         32         D         D         A         Yes         1           Ethy foluente         ETE         32         D         D         E         A         Yes         1           Gascine biolong stocks: Alkylates         GAK         33         D         A/C         A         Yes         1           Gascine biolong stocks: Reformates         GRF         33         D         A/C         A         Yes         1           Gascine biolong stocks: Reformates         GRF         33         D         C         A         Yes         1           Gascines: Aukonkive (contaiting net over 4.85 grams of load per         GAV         33         D         A/C         A         Yes         1           Gascines: Straight nun         GCS         33         D         A/C         A         Yes         1           Gascines: Cataght au         GCS-GO         21         D         C         A         Yes         1	Ethylene glycol phenyl ether	*			_						
2-Entryinstand         ENR         3.4         D         C         A         Yes         1           Ethyl projekate         ETE         32         D         D         A         Yes         1           Ethyl projekate         ETE         32         D         D         E         A         Yes         1           Farmamide         FAM         10         D         E         A         Yes         1           Gasolines blending stocks: Akjuites         GAK         33         D         AC         A         Yes         1           Gasolines: Akvisitin (containing nct over 4.85 grams lead per galon)         GAT         33         D         C         A         Yes         1           Gasolines: Cashighead (natural)         GCS         33         D         AC         A         Yes         1           Gasolines: Cashighead (natural)         GCS         33         D         AC         A         Yes         1           Gasolines: Cashighead (natural)         GCS         33         D         AC         A         Yes         1           Gasolines: Straight un         GSC         GSC         33         D         AC         A         Yes	Ethyi-3-ethoxyproplonate										
Entry found account         ETE         32         D         A         Yes         1           Formankie         FAM         10         D         E         A         Yes         1           Furfuryl stocha:         FAL         20 <sup>2</sup> D         E         A         Yes         1           Gasoline blending stocks: Alkylatsa         GAK         33         D         AC         A         Yes         1           Gasoline blending stocks: Reformates         GAK         33         D         AC         A         Yes         1           Gasolines: Automolive (containing net over 4.23 grams lead per galon)         GAV         33         D         C         A         Yes         1           Gasolines: Casinghead (instural)         GCS         33         D         AC         A         Yes         1           Gasolines: Casinghead (instural)         GCS         33         D         ACC         A         Yes         1           Gasolines: Singht nun         GSR         33         D         ACC         A         Yes         1           Heptanci caid         HEP         4         D         E         A         Yes         1           H	2-Ethylhexanol				-						
Entry Totaline         FAM         10         D         E         A         Yes         1           Gaustine blanding stocks: Alkylates         GAK         33         D         A/C         A         Yes         1           Gasoline blanding stocks: Alkylates         GAK         33         D         A/C         A         Yes         1           Gasoline blanding stocks: Reformates         GAF         33         D         A/C         A         Yes         1           Gasolines: Automotive (containing not over 4.26 grams of lead per gation)         GAC         33         D         C         A         Yes         1           Gasolines: Automotive (containing not over 4.86 grams of lead per gation)         GCS         33         D         A/C         A         Yes         1           Gasolines: Straight run         GCS         33         D         A/C         A         Yes         1           Gasolines: Straight run         GGR         202         D         E         A         Yes         1           Heptanol (all isomers), ese Alkanes (C6-C9) (all isomers)         HAX         31         D         C         A         Yes         1           Heptanol (all isomers)         HFZ         Q	Ethyl proplonate										
Farmanizas         FAL         20         E         A         Yes         1           Gasoline blending stocks: Alkylatos         GAK         33         D         A/C         A         Yes         1           Gasoline blending stocks: Alkylatos         GAK         33         D         A/C         A         Yes         1           Gasoline blending stocks: Alkylatos         GAF         33         D         C         A         Yes         1           Gasolines: Aukation (containing net over 4.25 grams lead per gallen)         GAV         33         D         C         A         Yes         1           Gasolines: Casinghead (natural)         GCS         33         D         A/C         A         Yes         1           Gasolines: Chylmer         GPL         33         D         A/C         A         Yes         1           Gasolines: Delymer         GPL         33         D         A/C         A         Yes         1           Gasolines: Delymer         GPL         33         D         A/C         A         Yes         1           Gasolines: Delymer         GPL         33         D         A/C         A         Yes         1	Ethyl toluene									······································	
Puttyl actricit         Pittyl actricit         Pittyl actricit           Gasoline blonding stocks: Alkylates         GAF         33         D         A/C         A         Yes         1           Gasoline blonding stocks: Reformates         GAF         33         D         A/C         A         Yes         1           Gasolines: Automotive (contenting not over 4.86 grams of lead per gelton)         GAV         33         D         C         A         Yes         1           Gasolines: Casinghead (natural)         GCS         33         D         A/C         A         Yes         1           Gasolines: Casinghead (natural)         GCS         33         D         A/C         A         Yes         1           Gasolines: Straight run         GSR         33         D         A/C         A         Yes         1           Heptane (all isomers), see Alkanes (C6-C9) (all isomere)         HMX         31         D         C         A         Yes         1           Heptane (all isomers)         HYX         20         D         D/E         A         Yes         1           Heptane (all isomers)         HYX         20         D         D/E         A         Yes         1	Formamide										
Gasoline Burking Subsk: Arkjustas       OKK       OKK       OKK       OKK       OKK       OKK       OKK       OKK       1         Gasoline Subsk: Arkformates       GRF       33       D       C       A       Yes       1         Gasolines: Automotive (containing not over 4.86 grams of lead per galon)       GAX       33       D       C       A       Yes       1         Gasolines: Scalinghead (natural)       GCS       33       D       A/C       A       Yes       1         Gasolines: Casinghead (natural)       GCS       33       D       A/C       A       Yes       1         Gasolines: Straight run       GSR       33       D       A/C       A       Yes       1         Gipcontre       GCR       20.2       D       E       A       Yes       1         Heptane (all somers), see Alkanes (C6-C9) (all somars)       HMX       31       D       C       A       Yes       1         Heptane (all somers)       HTX       20       D       D/E       A       Yes       1         Heptane (all somers)       HYZ       30       D       C       A       Yes       1         Heptane (all somers)       HYZ	Furfuryi alcohol							-			
Casedines: Automotive (containing not over 4.23 grams lead per galen)       GAT       33       D       C       A       Yes       1         Gasolines: Automotive (containing not over 4.86 grams of lead per galen)       GAV       33       D       C       A       Yes       1         Gasolines: Casinghead (natural)       GCS       33       D       A/C       A       Yes       1         Gasolines: Casinghead (natural)       GCS       33       D       A/C       A       Yes       1         Gasolines: Staght cun       GSR       33       D       A/C       A       Yes       1         Gasolines: Staght cun       GSR       33       D       A/C       A       Yes       1         Glycentre       GCR       20.2       D       E       A       Yes       1         Heptands call somers), see Alkanes (C5-C9) (all isomers)       HHX       20       D       D/E       A       Yes       1         Heptands call isomers)       HTX       20       D       D/E       A       Yes       1         Heptands call isomers)       HPX       30       D       C       A       Yes       1         Heptand (all somers)       HPX       30	Gasoline blending stocks: Alkylates										
Gasadines: Automotive (contraining not over 4.86 grams of load per gallon)       GAV       33       D       C       A       Yes       1         Gasadines: Cashrighead (natural)       GCS       33       D       A/C       A       Yes       1         Gasadines: Cashrighead (natural)       GCS       33       D       A/C       A       Yes       1         Gasadines: Straight run       GSR       33       D       A/C       A       Yes       1         Gasadines: Straight run       GSR       33       D       A/C       A       Yes       1         Gasadines: Straight run       GSR       20 2       D       E       A       Yes       1         Gasadines: Straight run       GSR       20 2       D       E       A       Yes       1         Heptanol: call somers), see Alkanes (C6-C9) (all isomers)       HiXX       31       D       C       A       Yes       1         Heptanol (all somers), see Alkanes (C6-C9)       HIXX       31       D       C       A       Yes       1         Heptanol (all somers), see Alkanes (C6-C9)       HXX       31 1       D       B/C       A       Yes       1         Heptane (all isomers) <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>											
Gasolines: Availability Containing inclusion stroke purpose       Containes       Containes         Gasolines: Casinghead (natural)       GCS       33       D       A/C       A       Yes       1         Gasolines: Straight run       GSR       33       D       A/C       A       Yes       1         Gasolines: Straight run       GSR       33       D       A/C       A       Yes       1         Gasolines: Straight run       GSR       33       D       A/C       A       Yes       1         Heptane (all somers), see Alkanes (C6-C9) (all somere)       HMX       31       D       C       A       Yes       1         Heptanol (all somers), see Alkanes (C6-C9)       HTX       20       D       D/E       A       Yes       1         Heptane (all somers), see Alkanes (C6-C9)       HTX       20       D       D/E       A       Yes       1         Heptane (all somers), see Alkanes (C6-C9)       HTX       20       D       D/C       A       Yes       1         Hexanol (all somers)       HEX       30       D       C       A       Yes       1         Hexanol (all somers)       HXX       20       D       D       A       Yes<	gallon)										
Gasolines: Casingleau (natural)       Core       33       D       A/C       A       Yes       1         Gasolines: Straight run       GSR       33       D       A/C       A       Yes       1         Ghycenfrie       GCR       20 2       D       E       A       Yes       1         Heptane (all isomers), see Alkanes (C6-C9) (all isomers)       HiXX       31       D       C       A       Yes       1         Heptane (all isomers)       HEP       4       D       E       A       Yes       1         Heptane (all isomers)       HTX       20       D       D/E       A       Yes       1         Heptane (all isomers)       HTX       20       D       D/E       A       Yes       1         Heptane (all isomers)       HPX       30       D       C       A       Yes       1         Hexance (all isomers)       HPX       30       D       C       A       Yes       1         Hexance (all isomers)       HPX       30       D       C       A       Yes       1         Hexance (all isomers)       HPX       30       D       C       A       Yes       1 <tr< td=""><td></td><td></td><td>33</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr<>			33								
Gasolinas: Formar       GER       33       D       A/C       A       Yes       1         Gesolinas: Straight run       GGR       20 2       D       E       A       Yes       1         Heptane (all isomers), see Alkanes (C6-C9) (all isomera)       HMX       31       D       C       A       Yes       1         Heptanol (all isomers)       HEP       4       D       E       A       Yes       1         Heptanol (all isomers)       HTX       20       D       D/E       A       Yes       1         Heptanol (all isomers)       HTX       20       D       D/E       A       Yes       1         Heptanol (all isomers)       HPX       30       D       C       A       Yes       1         Heptanol (all isomers)       HPX       30       D       C       A       Yes       1         Heptanol (all isomers), see Alkanes (C6-C8)       HXS       31 1       D       B/C       A       Yes       1         Hexanol       HXN       20       D       D       A       Yes       1         Hexanol (all isomers)       HEX       30       D       C       A       Yes       1 <td>Gasolines: Casinghead (natural)</td> <td>GCS</td> <td>33</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Gasolines: Casinghead (natural)	GCS	33								
Galactives: straight runCorr <td>Gasolines: Polymer</td> <td>GPL</td> <td>33</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Gasolines: Polymer	GPL	33								
Heptane (all Isomera), see Alkanes (C6-C9) (all Isomera)       HiXX       31       D       C       A       Yes       1         Heptane (all Isomera)       HEP       4       D       E       A       Yes       1         Heptane (all Isomera)       HTX       20       D       D/E       A       Yes       1         Heptane (all Isomera)       HPX       30       D       C       A       Yes       1         Heptane (all Isomera)       HPX       30       D       C       A       Yes       1         Heptane (all Isomera)       HPX       30       D       C       A       Yes       1         Heptane (all Isomera)       HPX       30       D       C       A       Yes       1         Hexanol cscid       HXN       31       D       B/C       A       Yes       1         Hexanol        HXN       20       D       D       A       Yes       1         Hexanol        HXG       20       D       E       A       Yes       1         Hexanol (all Isomers)       HEX       30       D       C       A       Yes       1         Hexanol (all Isomers)	Gasolines: Straight run	GSR	33		· · · · · · · · · · · · · · · · · · ·						
Heptanol: actidHEP4DEAYes1Heptanol: actidHEP4DEAYes1Heptanol: actidHTX20DD/EAYes1Heptanol: actidHPX30DCAYes1Heptanol: actidHPX30DCAYes1Heptanol: actidHPX31ZDB/CAYes1Hexane (all Isomers)HSX31ZDB/CAYes1Hexanol: actidHXN20DDAYes1HexanolHXN20DDAYes1HexanolHXN20DDAYes1HexanolHXR30DCAYes1HexanolHXR20DDAYes1HexanolHXR30DCAYes1HexanolHXR30DCAYes1HexanolHXR30DCAYes1HexanolHXR30DCAYes1HexanolHXR30DCAYes1HexanolHXR30DCAYes1HexanolHXR30DDAYes1HexanolHXR30 <td< td=""><td>Glycerine</td><td>GCR</td><td>20 2</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	Glycerine	GCR	20 2								
Heptanol (all Isomers)HTX20DD/EAYes1Heptanol (all Isomers)HPX30DCAYes2Heptine (all Isomers)HPE34DEAYes1Heptine (all Isomers), see Alkanes (C6-C9)HXS31 ²DB/CAYes1Hexane (all Isomers), see Alkanes (C6-C9)HXS31 ²DB/CAYes1Hexane (all Isomers), see Alkanes (C6-C9)HXS31 ²DB/CAYes1HexanolHXO4DEAYes1HexanolHXN20DDAYes1HexanolHXR30DCAYes1Hexanol (Isomers)HEX30DCAYes1Hextene (all Isomers)HKG20DEAYes1Hextene (all Isomers)HYG33DEAYes1Hextene (all Isomers)HXG20DEAYes1Hextene (all Isomers)HYG33DDAYes1Hextene (all Isomers)HYG33DDAYes1Jeft (us: JP-4)JPF33DDAYes1Jeft (us: JP-4)JPV33DDAYes1Methyl accetataMTT34DDA<	Heptane (all isomers), see Alkanes (C6-C9) (all isomers)	НМХ									
Haptanol (all Isomers)       HTX       20       D       D/E       A       Yes       1         Haptana (all Isomers)       HPX       30       D       C       A       Yes       2         Haptana (all Isomers)       HPX       30       D       E       A       Yes       1         Haptana (all Isomers)       HRX       31 ²       D       B/C       A       Yes       1         Hexanol (add Isomers)       HXS       31 ²       D       B/C       A       Yes       1         Hexanol (add Isomers)       HXX       20       D       D       A       Yes       1         Hexanol       HXN       20       D       D       A       Yes       1         Hexanol       HXX       30       D       C       A       Yes       1         Hexanol       HXX       20       D       D       A       Yes       1         Hexanol       HXG       20       D       E       A       Yes       1         Hexanol       HXG       20       D       E       A       Yes       1         Jet tuet: JP-4       JPF       33       D       D	Haplanoic scid										
Heptene (all isometris)III K ACOCAYea1Heptyl acetateHPE34DEAYea1Hexane (all isomers), see Alkanes (C6-C9)HXS31 ²DB/CAYea1Hexanolc acidHXO4DEAYea1Hexanolc acidHXN20DDAYea1HexanolHXN20DDCAYea1Hexene (all isomers)HEX30DCAYea1Hextene giycolHXG20DEAYea1IsophoronaIPH18 ²DEAYea1Jet fuel: JP-4JPF33DDAYeas1Jet fuel: JP-5 (kerosena, heavy)JPV33DDAYeas1Methyl acetataMTT34DDAYeas1Methyl acetataMAC34DAYeas1Methyl acetataMAC34DDAYeas1Methyl anyl acetateMAC34DDAYeas1Methyl anyl ketoneMAK18DDAYeas1Methyl etherMBE41 ²DCAYeas1		HTX	20								
Heptyl acetateHPE34DEAYes1Hexane (all Isomars), see Alkanes (C6-C8)HXS31 2DB/CAYes1HexanolHXO4DEAYes1HexanolHXN20DDAYes1Hexene (all Isomars)HEX30DCAYes1Hexene (glycolHXG20DDEAYes1Hexylene glycolHXG20DEAYes1IsophoronaIPH18 2DEAYes1Jet fuel: JP-4JPF33DDAYes1Jet fuel: JP-5 (kerosena, heavy)JPV33DDAYes1Methyl acetataMTT34DDAYes1Methyl acetataMAC34DDAYes1Methyl acetataMAC34DDAYes1Methyl anyl acetateMAC34DDAYes1Methyl anyl keloneMAK18DDAYes1Methyl anyl keloneMAK18DDAYes1	Heptene (all isomers)	HPX	30								
HaxanolHXO4DEAYes1HexanolHXN20DDDAYes1HexanolHXN20DDDAYes1Hexene (all isomera)HEX30DCAYes2Hexylene glycolHXG20DEAYes1IsophoronaIPH182DEAYes1Jet fuel: JP-4JPF33DEAYes1Jet fuel: JP-5 (kerosens, heavy)JPV33DDAYes1Methyl acetataMTT34DDAYes1Methyl acetataMAL20<2		HPE									
HaxanolHXN20DAYes1Hexene (all termers)HEX30DCAYes2Hexylene glycolHXG20DEAYes1IsophoroneIPH18 2DEAYes1Jet fuel: JP-4JPF33DEAYes1Jet fuel: JP-5 (kerosene, heavy)JPV33DDAYes1KeroseneKRS33DDAYes1Methyl acetataMTT34DDAYes1Methyl acetataMAL20 2DCAYes1Methyl acetateMAC34DDAYes1Methyl acetateMAK18DDAYes1Methyl anyl kotoneMAK18DDAYes1Methyl anyl kotoneMAK18DDAYes1	Hexane (all Isomers), see Aikanes (C6-C9)		31 2								
HaxmolHEX30DCAYes2Haxylene glycolHXG20DEAYes1IsophoroneIPH18 2DEAYes1Jet fuel: JP-4JPF33DEAYes1Jet fuel: JP-5 (kerosene, heavy)JPV33DDAYes1KeroseneKRS33DDAYes1Methyl acetataMTT34DDAYes1Methyl acetataMAL20 2DCAYes1Methyl acetateMAC34DDAYes1Methyl acetateMAC34DDAYes1Methyl acetateMAK18DDAYes1Methylarnyl acetateMAK18DDAYes1Methylarnyl kotoneMAK18DDAYes1Methylarnyl kotoneMAK18DDAYes1											
Haxene (all isomens)HixCOCHaxylene glycolHXG20DEAYes1IsophoroneIPH18 2DEAYes1Jet fuel: JP-4JPF33DEAYes1Jet fuel: JP-5 (kerosene, heavy)JPV33DDAYes1Jet fuel: JP-5 (kerosene, heavy)JPV33DDAYes1Methyl acetataMTT34DDAYes1Methyl acetataMAL20 2DCAYes1Methyl acetateMAC34DDAYes1Methyl acetateMAC34DDAYes1Methylamyl acetateMAC34DDAYes1Methylamyl acetateMAK18DDAYes1Methyl amyl keloneMAK18DDAYes1Methyl terl-butyl etherMBE41 2DCAYes1	Hexanol		***								
Haxytene giycelINC20DAYes1IsophoroneIPH18 2DEAYes1Jet fuel: JP-4JPF33DEAYes1Jet fuel: JP-5 (kerosens, heavy)JPV33DDAYes1Jet fuel: JP-5 (kerosens, heavy)JPV33DDAYes1KeroseneKRS33DDAYes1Methyl acetataMTT34DDAYes1Methyl acetataMAL20 2DCAYes1Methyl acetateMAC34DDAYes1Methyl acetateMAC34DDAYes1Methylamyl acetateMAA20DDAYes1Methylamyl alcoholMAA20DDAYes1Methyl amyl keloneMAK18DDAYes1Methyl terl-butyl etherMBE41 2DCAYes1	Hexene (all isomers)										
IsophoroneInitIdDInitIdDInitJet fuel: JP-4JPF33DEAYes1Jet fuel: JP-5 (kerosene, heavy)JPV33DDAYes1KeroseneKRS33DDAYes1Methyl acetataMTT34DDAYes1Methyl acetataMAL20 2DCAYes1Methyl acetateMAC34DDAYes1Methyl acetateMAC34DDAYes1Methyl anyl acetateMAA20DDAYes1Methylamyl acetateMAA20DDAYes1Methyl anyl keloneMAK18DDAYes1Methyl terl-butyl etherMBE41 2DCAYes1	Haxylene giycol										
Jet fuel: JP-5 (kerosene, heavy)       JPV       33       D       D       A       Yes       1         Kerosene       KRS       33       D       D       A       Yes       1         Methyl acetata       MTT       34       D       D       A       Yes       1         Methyl acetata       MAL       20 <sup>2</sup> D       C       A       Yes       1         Methyl acetate       MAC       34       D       D       A       Yes       1         Methyl acetate       MAC       34       D       D       A       Yes       1         Methyl acetate       MAC       34       D       D       A       Yes       1         Methyl anyl acetate       MAC       34       D       D       A       Yes       1         Methyl anyl acetate       MAA       20       D       D       A       Yes       1         Methyl anyl ketone       MAK       18       D       D       A       Yes       1         Methyl anyl ketone       MBE       41 <sup>2</sup> D       C       A       Yes       1	isophorona										
Jet ruer: JP-S (kerosene)       KRS       33       D       A       Yes       1         Kerosene       MRS       33       D       D       A       Yes       1         Methyl acetate       MTT       34       D       D       A       Yes       1         Methyl acetate       MAL       20 ²       D       C       A       Yes       1         Methyl acetate       MAC       34       D       D       A       Yes       1         Methyl acetate       MAC       34       D       D       A       Yes       1         Methyl acetate       MAC       34       D       D       A       Yes       1         Methyl amyl acetate       MAC       34       D       D       A       Yes       1         Methyl amyl acetate       MAA       20       D       D       A       Yes       1         Methyl amyl kelone       MAK       18       D       D       A       Yes       1         Methyl terl-butyl ether       MBE       41 ²       D       C       A       Yes       1	Jet fuel: JP-4				_					······	
KerdsendMTT34DAYes1Methyl acetateMAL20 2DCAYes1Methyl acetateMAC34DDAYes1Methylamyl acetateMAC34DDAYes1Methylamyl acetateMAA20DDAYes1Methylamyl acetateMAA20DDAYes1Methyl amyl keloneMAK18DDAYes1Methyl terl-butyl etherMBE41 2DCAYes1	Jet fuel: JP-5 (kerosena, heavy)			_							
Mathyl acetate     MAL     20 <sup>2</sup> D     C     A     Yes     1       Methyl alcohol     MAC     34     D     D     A     Yes     1       Methyl anyl acetate     MAC     34     D     D     A     Yes     1       Methylamyl acetate     MAA     20     D     D     A     Yes     1       Methylamyl alcohol     MAA     20     D     D     A     Yes     1       Methyl amyl kelone     MAK     18     D     D     A     Yes     1       Methyl terl-butyl ether     MBE     41 <sup>2</sup> D     C     A     Yes     1	Kerosene								_		
Methyl alcohol     MAC     34     D     D     A     Yes     1       Methylamyl acelate     MAC     34     D     D     A     Yes     1       Methylamyl alcohol     MAA     20     D     D     A     Yes     1       Methyl amyl kelone     MAK     18     D     D     A     Yes     1       Methyl terl-butyl ether     MBE     41 2     D     C     A     Yes     1	Methyl acetate										
Methylamyl scatte     MAA     20     D     A     Yes     1       Methylamyl sicohol     MAA     20     D     D     A     Yes     1       Methyl amyl ketone     MAK     18     D     D     A     Yes     1       Methyl terl-butyl ether     MBE     41 2     D     C     A     Yes     1	Methyl alcohol										·
Methylamyl acond         MAK         10         D         A         Yes         1           Methyl amyl ketone         MAK         18         D         D         A         Yes         1           Methyl tert-butyl ether         MBE         41 2         D         C         A         Yes         1	Methylamyl scelate										
Methyl anyl ketone MBE 41 2 D C A Yes 1	Methylamyi alcohol					,					
Methyl ten-butyl eurer	Methyl amyl kelone										
the second secon	Methyl tert-butyl ether	MBE	41 7	D	C		<u>A</u>			of Increation ***	



Sertal # C1-1304383 Dated: 24-Dec-13

## Certificate of Inspection Cargo Authority Attachment

Vessel Name: KIRBY 10111 Official #: 1251010

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Shipyard: Trinity Caruthersville Hull'#: 5996-23

Official #: 1251010			290.01										
Cargo Identification							Conditions of Carriage						
Name	Cham Code	Compst Group No	Sub Chapter	Grada	Huil Typa	Tank Group	App'd (Y or N)		Spodal Requirements in 46 CFR 151 General and Maris of	insp. Period			
Methyl butyl ketone	MBK	18	D	C		<u>A</u>	Yes	1					
Methyl butyrate	MBU	34	D	C		<u>A</u>	Yes						
Methyl ethyl ketone	MEK	18 2	D	<u> </u>		<u>A</u>	Y05	1		•			
Methyl heptyl ketone	MHK	18	D	D		<u>A</u>	Yes						
Melhyl isobulyl ketone	MIK	18 2	D	C		<u>A</u>	Yes	1					
Methyl naphthalena (molten)	MNA	32	0	E		<u>A</u>	Yes	1					
Mineral spirits	MNS	33	D	0		<u>A</u>	Yes	1					
Myrcene	MRE	30	D	D		<u>A</u>	Yes	1		-			
Naphtha: Heavy	NAG	33	D	#		<u>A</u>	Yes	1					
Naphtha: Petroleum	PTN	33	D	#		<u>A</u>	Yes	1					
Naphtha: Solvent	NSV	33	D	D		<u>A</u>	Yes	1					
Naphtha: Stoddard solvent	NSS	33	0	D		<u>A</u>	Yes	1					
Naphtha: Vamish makers and painters (75%)	NVM	33	D	C		<u>A</u>	Yes						
Nonane (all isomers), see Alkanes (C6-C9)	NAX	31	D	D		<u>A</u>	Yes						
Nonene (ali Isomers)	NON	30	D	D		<u>A</u>	Yes	2					
Nonyi alcohol (all isomers)	NNS	20 2	D	E		<u>A</u>	Yes	1					
Nonyi phenoi	NNP	21	D	E		<u>A</u>	Yes	1					
Nonyl phenol poly(4+)ethoxylates	NPE	40	D	Ε		<u>A</u>	Yes						
Octane (all isomers), see Alkanes (C6-C9)	OAX	31	0	C		<u>A</u>	Yes	1					
Octanoic actd (all isomers)	OAY	4	D	E		<u>A</u>	Yes	1					
Octanol (all isomers)	OCX	20 2	D	<u> </u>		<u>A</u>	Yes						
Octene (all Isomers)	OTX	30	<u>D</u>	C		<u>A</u>	Yes	2					
Oli, fuel: No. 2	OTW	33	D	D/E		<u>A</u>	Yes	1					
Oil, fuel: No. 2-D	OTD	33	D	D		<u>A</u>	Yes	1					
Oli, fuel: No. 4	OFR	33	D	D/E		<u>A</u>	Yes						
Oli, fuel: No. 5	OFV	33	D	D/E		<u>A</u>	Yes	1					
Oli, fuel: No. 6	OSX	33	D	<u> </u>		<u>A</u>	Yes	1					
Oli, misc: Crude	OIL	33	D	C/D		<u>A</u>	Yes	1					
Oli, misc: Diesei	ODS	33	D	D/E		<u>A</u>	Yes	1					
Oli, misc: Gas, high pour	OGP	33	D	E		<u>A</u>	Yes	1					
Oil, misc. Lubricating	OLB	33	<u>D</u>	E		<u>A</u>	Yes						
Oll, misc: Residual	ORL	33	0	E		<u>A</u>	Yes	1	·······				
Oil, misc: Turbine	OTB	33	D	E		<u> </u>	Yes	1					
Pentane (all isomers)	PTY	31	D	<u>A</u>		<u>A</u>	Yes	<u>5</u>		•			
Pentena (all Isomers)	PTX	30	D	<u>A</u>		<u>A</u>	Yes						
n-Pentyl propionate	PPE	34	D	0		<u>A</u>	Yes	1					
alpha-Pinana	PIO	30	D	D		<u>A</u>	Yes			<del>.</del>			
bela-Pinene	PIP	30	D	D		<u>A</u>	Yes						
Poly(2-8) sikylene glycol monosikyl(C1-C6) ether	PAG		D	6		<u>A</u>	Yes						
Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether acetate	PAF	34	D	E		<u>A</u>	Yes						
Polybutene	PLB	30	<u> </u>	<u> </u>		<u>A</u>	Yes						
Polypropylene glycol	PGC		<u>D</u>	E		<u>A</u>	Yes	_					
iso-Propyl acelate	IAC	34	0	C		<u>A</u>	Yes						
n-Propyl acetate		~ 4	D	С		A	Yes						
tso-Propyl alcohol	PAT	34											
	IPA	20 2	D	c		<u>A</u>	Yes						
n-Propyl alcohol	IPA PAL	20 <sup>2</sup> 20 <sup>2</sup>	D	С		A	Yes	1					
n-Propylalcohol Propylbenzene (all Isomens)	IPA	20 <sup>2</sup> 20 <sup>2</sup>						1					



Serial #: C1-1304363 Dated: 24-Dac-13

## **Certificate of Inspection** Cargo Authority Attachment

Vessel Name: KIRBY 10111 Official #: 1251010

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Shipyard: Trinity Caruthersville Hull #: 5996-23

Cargo Identific	Cargo Identification									
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tenk Group	App'd	Racovary VCS Category	Special Requirements in 46 CFR 151 General and Mattis of	insp. Poriod
Propylene glycol	PPG	20 2	D	E		A	Yes	1		
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		Α	Yes	1		
Tetrahydronsphthalene	THN	32	D	E		A	Yes	1		
Totuene	TOL	32	D	C		A	Yes	1		
Tricresyl phosphate (less than 1% of the ortho isomer)	TCP	34	D	E		A	Yes	1		
Triethylbenzene	TEB	32	D	E		A	Yes	1		
Triethylene glycol	TEG	40	D	E		A	Yes	1		
Trielhyl phosphate	TPS	34	D	E		Α	Yes	1		
Trimethylbenzene (sli isomers)	TRE	32	D	(D)		Α	Yes	1		
Trixylenyl phosphate	TRP	34	D	E		A	Y05	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		Α	Yes	1		



Serial #: C1-1304383 Dated: 24-Dec-13

## **Certificate of Inspection** Cargo Authority Attachment

Vessel Name: KIRBY 10111 Official #: 1251010

Page 8 of 8

Shipyard: Trinity Caruther Hull #: 5998-23

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

Cargo Identification Name	The proper shipping name as isled in 48 CFR Table 30.25-1, 46 CFR Table 151.05, and 46 CFR Part 153 Table 2.
Chem Code none	The three latter designation assigned to the cargo is the Chandeal Hazards Response information System (CHADS) Manuel.
Compatability Group No.	Certain inductors to cargo they may be added in a compatibility determinations in 46 CFR Part 150 Tables I and II. In accordance with 48 CFR 150.130, the Person-In-Charge of The cargo reactive group number assigned for compatibility requirements of 48 CFR Part 150 are not. Cargoes must be checked for compatibility using the Squres, tables, the barge is responsible for ensuring that the compatibility requirements of 48 CFR Part 150 are not. Cargoes must be checked for compatibility using the Squres, tables,
Note 1	The bargers responsible for labeling that with the assigned reactive group number. and appendices of 48 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 Chart. For additional compatibility information, contact Commandant (CG-3PSO-3), U.S. Coast Guard, 2100 Second Streat, SW, Washington, DC 20593-0001. Telephone
Noto 2	(202) 372-1425. See Appendix I to 48 CFR Part 150 - exceptions to the compatability chart.
Subchapter Subchapter D Subchapter O	The subchapter in Title 45 Code of Federal Regulations under which the cargo has been classified. These flarmatele and combustible liquids faited in 46 CFR Table 30.25-1. These hazardous cargoes listed in 48 CFR Table 151.05 and 48 CFR Part 153 Table 2. These cargoes listed in 48 CFR Part 153 Table 2 are non-regulated cargoes when carded in bulk on non-occoangoing barges.
Note 3	
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 varified by manufacturers data. The Person-h-Charge shall varify the cargo grade based on Manufacturers data and ensure that the bargo is authorized for cardage of that grade of cargo.
A, B, C	Rammable liquid cargoes, as defined in 46 CFR 30-10.22.
D, E Noto 4	Combustible liquid cargoes, as defined in 48 CFR 30-10.15. The flammability combustibility grade of these cargoes may vary depending upon the fashpoint and Reid vepor pressure. The Person-In-Charge shall varify the cargo grade based on Manufactures data and ansure that the barge is authorized for cardage of that grade of cargo.
NA	Cargo grade based of mathematical and assisted as a flammable or combusible liquid. Those subchaptor O cargoes which are not dassified as a flammable or combusible liquid. No flammability/combusibility grade has been assigned you, is the necessary flash point/repor pressure data for such assignments are presently not available.
#	·
Hull Type	The required barge hull dassification for comage of the speedfood Subchapter O hazardous material carge, see 46 CFR 151.10-1. Designed to carry products which require the maximum preventive massures to prectude the uncontrolled release of the cargo. See 48 CFR 151.10-1(b)(1).
l D	
R1	Designed to carry products of sufficient hazar to require a moderate degree of control. See 40 CFR 151.10-1(b)(4). Designed to carry products of sufficient hazar to require a moderate degree of control. See 40 CFR 151.10-1(b)(4). Not applicable to barges cartificated under Subchaptor D.
NA	Ros application to carrier contraction areas construction.
Conditions of Carriaga	
Tank Group	The vessel's tank group (as defined in Section 4) which is authorized for carriage of the named cargo.
Vepar Recovery Appraved (Y ar N)	Yes: The vessel's VCS has been reviewed and approved by the MSC to control vapore of the specified corgo. No: The vessel's VCS has been reviewed and is not approved by the MSC to control vapore of the specified corgo.
Conditions of Carriage	
Tank Group	The vessels tank group (as dolined under the "46 CFR Tank Group Characteristics" listed on page 1) which is authorized for carriage of the named cargo.
Vapor Recovery Approved (Y or N)	Yes: The vessel's VCS has been reviewed and approved by the MSC to control vapors of the specified cargo. No: The vessel's VCS has been reviewed and is not approved by the MSC to control vapors of the specified cargo.
VCS Catagory:	The specified cargo's provisional classification for vapor control systems.
Category 1	(No additional VCS requiraments above those for barzene, gasolines and crude of All requiraments appring to the indirate and a 31 CFR 156.750, 33 CFR 158.120, 33 and 46 Cost of Federal Regulations (CFR) apply to these cargoes. These specifically dealing with vapor control systems are in 33 CFR 156.750, 33 CFR 156.170, 46 CFR 35.35 and 48 CFR 39. The cargo tank venting system calculations (48 CFR 39.20-11) and the pressure drop calculations (48 CFR 39.30-1(b)) crust use cargooriate friction factors, vapor dealings and vapor growth reles.
Category 2	(Polymarizes) Polymarization and residue build-up of these cargoes can advarsely affect the vessel by fouling safety components and restricting vapor flow which could lead to cargo tank overpressurization. The vessel's owner must develop a method of ensuring at VCS safety components are functional and polymer build-up is not lead to cargo tank overpressurization. The vessel's owner must develop a method of ensuring at VCS safety components are functional and polymer build-up is not causing an unsafe condition due to increased pressure in the vepor control piping and cargo tanks. The method shall be acceptable to the lead officer in Charge, Marine impedian. This is in addition to the requirements of Category 1. Please note that a material not normally considered a monamer can be a problem in detonation arrester impedian.
Category 3	(Highly toxic) VCSs for these toxic cargoes cannot use a split valve or rupture disk as the primary means to meet the overful protection requirement of 46 CFR 39.20-9. This requirement is in addition to the requirements of Catogory 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 psis at 115 F must take into account increased vapor-air mixture densities and vapor growth rates as compared to Category teargoes. Consult the Marine Safety Centar's VCS Guidefines 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 6.
Category 7	(High vapor pressure and polymerizes) Must comply with requirements of Categories 1, 2 and 5.
none	The cargo has not been evaluated classified for use in vapor control systems.