

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

Certification Date: 17 Jun 2020 Expiration Date: 17 Jun 2025

Certificate of Inspection

For shins on international voyages this certificate fulfile the requirements of SOLAS 74 as amended, regulation V/14, for a SAFE MANNING DOCUMENT.

Astron.	Official Northpar	EMC : 14012	70	Odi Ogir		
MMI 3047	1166419				Tank Ba	arge
Hailing Port						
7 200 	Hull Materia	al Horse	power	Propulation		
HOUSTON, TX	Steel					
*************************	,					
UNITED STATES						
						<u>.</u>
Place Built	Delivery Date	Keel Laid Date	Gross Tons	Net Tons	DWT	Length
MADISONVILLE, LA	3. 0 ************************************		R-1619	R-1619		R-297.5
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UNITED STATES	8 5		•	- **		
*	8					
Owner		Operato	-		-	
HIGMAN BARGE LINES IN	AC.	Operato Kirby	r Inland Mari	ine I P		
55 WAUGH DR STE 1000	•		0 Market St			
HOUSTON, TX 77007			nelview, TX			
UNITED STATES		UNIT	ED STATES	S		
This vessel must be manne	ed with the following licen:	sed and unlicense	ed Personne	el. Included in v	which there m	nust be
0 Certified Lifeboatmen, 0						
0 Masters	0 Licensed Mates 0 Ch	nief Engineers	0 Oi	ilers		
0 Chief Mates	0 First Class Pilots 0 Fir	rst Assistant Enginee	rs			
➤ 0 Second Mates		econd Assistant Engir				
0 Third Mates		nird Assistant Enginee				
0 Master First Class Pikin		censed Engineers				
0 Mate First Class Filots	*	ualified Member Engi	neer			
In addition, this vessel may Persons allowed: 0	/ carry 0 Passengers, 0 O	ther Persons in cr	ew, 0 Perso	ons in addition t	o crew, and n	o Others. Total
Route Permitted Ana Co	anditions Of Operation:		<i>5</i> .3			
	18.80					
Lakes, Bays, and	Sounds			•		•
Also, in fair weather or	nlv. limited coastwise,	not more twelv	e (12) mil	es from shore	between St.	Marks and
Carrabelle, Florida.	The second secon					*
This vessel has been gra	ented a fresh water ser	vice examinatio	n interval	in accordance	with 46 CF	P 31 10-21(a)
(2). If this vessel is o	operated in salt water	more than 6 mon	ths in any	12 month peri	iod, the ves	sel must be
inspected using salt wat	ter intervals per 46 CP	R 31.10-21(a)(1				
writing as soon as this	change in status occur	.				
1						
SEE NEXT PAGE FO	R ADDITIONAL CERTIF	CATE INFORM	ATION			
			The State of the S	TED STATES A	05	
With this Inspection for Cer Inspection, Houston-Galves	tilication having been constant in	Apieteo at Freepoi Apieteo at Freepoi	π, τχ, υπιτ • conformit	LEU STATES, (I	he Officer in C	Charge, Marine
the rules and regulations pr	rescribed thereunder.	I an ioopoote, ic	I COINCIAN,	/ Will the upple	dule 403361 1/1	Spection laws an
	eriodic/Re-Inspection	-Tr	is certificate	e issued by:	7)
Date Zone	A/P/R Signa			ARRERO CDR,	HERE BY	HDECTION !
9-18-21 New Poles			cer in Charge, Mar		0303, 51 5	IRECTION
3-25-2022 Part Author			Der HI OHENYE, INC.	50000 AND 10 AND 10	Galveston	<i>y</i> *
3/23/23 Heuster		1 -	pection Zone	HUUSIOH	Galveston	
4-5-24 124		3277	ABCORDI CORRE			



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

Certification Date: 17 Jun 2020 **Expiration Date:** 17 Jun 2025

Certificate of Inspection

Vessel Name: MMI 3047

This tank barge is participating in the Eighth and Ninth Coast Guard Districts Tank Barge Streamlined 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 Sector Houston-Galveston.

---Hull Exams---

Exam Type

Next Exam

Last Exam

Prior Exam

DryDock

31Mar2025

08May2015

22Mar2005

Internal Structure

31Mar2025

17Jun2020

08May2015

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

Authorization:

Grade A and lower and specified hazardous cargoes.

Total Capacity

Units

Highest Grade Type Part151 Regulated Part153 Regulated Part154 Regulated

29500

Barrels

Yes

No

No

Hazardous Bulk Solids Authority

Not Authorized

Loading Constraints - Structural

Tank Location Description	Max Cargo Weight per Tank (short tons)	Maximum Density (lbs/gal)
1 P/S	841	13.6
2 P/S	793	13.6
3 P/S	781	13.6

Loading Constraints - Stability

Hull Type	Maximum Load (short tons)	Maximum Draft (ft/in)	Max Density (lbs/gal)	Route Description
II	3614	9ft 6in	13.6	R, LBS
101	4603	11ft 6in	13.6	R, LBS

Conditions Of Carriage

Only those cargoes named in the vessel's Cargo Authority Attachment (CAA), Serial# C1-2000602, dated February 19, 2020 may be carried, and then only in the tanks indicated. When the vessel is carrying cargoes containing greater than 0.5% benzene, the person in charge is responsible for ensuring the provisions of 46 CFR part 197, Subpart C are applied.

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

The maximum design density of cargo which may be filled to the tank top is 8,745 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 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.

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



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Certificate of Inspection

Vessel Name: MMI 3047

In accordance with 46 CFR Part 39, excluding Part 39.4000, this vessel's VCS has been inspected to the plans approved by MSC Letters C2-0306407 dated September 15, 2003, and C1-0504010 dated March 29, 2005, and updated by C1-2000348 dated January 30, 2020, and has been found acceptable for the collection of bulk liquid cargo vapors annotated with "Yes" in the CAA's VCS column. The VCS has been approved with a pressure side of 3 psig P/V valve with Coast Guard Approval 162.017/167/4. The cargo tank top is suitable for a maximum allowable working pressure (MAWP) of 3.5 psig.

--- Inspection Status ---

Cargo Tanks

	Internal Exam			External Exam	ı	
Tank Id	Previous	Last	Next	Previous	Last	Next
1 P/S		08May2015	08May2025	<u>=</u>	-	-
2 P/S	-	08May2015	08May2025	-	-	-
3 P/S		08May2015	08May2025	-	-	-
			Hydro Test			
Tank Id	Safety Valves		Previous	Last	Next	
1 P/S	-		:-	-	-	
2 P/S	-		-	-	-	
3 P/S	_			_	_	

--- Conditional Portable Fire Extinguisher Requirements---

Required Only During Transfer of Cargo or Operation of Barge Machinery

--- Fire Fighting Equipment ---

Fire Extinguishers - Hand portable and semi-portable

Quantity

Class Type

2

40-B

END



Certificate of Inspection

Cargo Authority Attachment

Vessel Name: KIRBY 29327

Shipyard: Trinity Marine Madisonville

Serial #:

Dated:

C1-2000602

19-Feb-20

Hull #: 2137-2

Official #: 1166419

Tank Group Information	Cargo Id	dentificati	on		Cargo		Tanks		Carg Trans		Environ Control		Fire	Special Require	ments		
Tnk Grp Tanks in Group	Density	Press.	Temp.		Seq	Туре	Vent	Gauge	Pipe Class	Cont	Tanks		Protection Provided	General	Materials of Construction	Elec Haz	Temp Cont
A #1 - #3 P/S	13.6	Atmos.	Amb.	II	1ii 2ii	Integral Gravity	PV	Closed	II	G-1	NR	NA	Portable	.50-60, .50-70(a), .50-70(b), .50-73, .50-81(a), .50- 81(b),	55-1(b), (c), (e), (f), (h), (j), 56-1(a), (b), (c), (d), (e), (f), (g),	NR	No

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

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

List of Authorized Cargoes

Cargo Identificatio	n					Conditions of Carriage						
		Compat						ecovery				
Name	Chem Code	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												
Sodium acetate solution	SAN	34	D/O 3	#		Α	No	N/A				
Acetonitrile	ATN	37	0	С	Ш	Α	Yes	3	No	G		
Acrylonitrile	ACN	15 ²	0	С	Ш	Α	Yes	4	.50-70(a), .55-1(e)	G		
Adiponitrile	ADN	37	0	Е	Ш	Α	Yes	1	No	G		
Alkyl (C7-C9) nitrates	AKN	34 ²	0	NA	III	Α	No	N/A	.50-81, .50-86	G		
Aminoethyl ethanolamine	AEE	8	0	Е	III	Α	Yes	1	.55-1(b)	G		
Ammonium bisulfite solution (70% or less)	ABX	43 ²	0	NA	III	Α	No	N/A	.50-73, .56-1(a), (b), (c)	G		
Ammonium hydroxide (28% or less NH3)	AMH	6	0	NA	Ш	Α	No	N/A	.56-1(a), (b), (c), (f), (g)	G		
Anthracene oil (Coal tar fraction)	AHO	33	0	NA	П	Α	No	N/A	No	G		
Benzene	BNZ	32	0	С	Ш	Α	Yes	1	.50-60	G		
Benzene or hydrocarbon mixtures (having 10% Benzene or more)	BHB	32 ²	0	С	Ш	Α	Yes	1	.50-60	G		
Benzene or hydrocarbon mixtures (containing Acetylene and 10% Benzene or more)	ВНА	32 ²	0	С	III	Α	Yes	1	.50-60, .56-1(b), (d), (f), (g)	G		
Benzene, Toluene, Xylene mixtures (10% Benzene or more)	BTX	32	0	B/C	III	Α	Yes	1	.50-60	G		
Butyl acrylate (all isomers)	BAR	14	0	D	Ш	Α	Yes	2	.50-70(a), .50-81(a), (b)	G		
Butyl methacrylate	BMH	14	0	D	III	Α	Yes	2	.50-70(a), .50-81(a), (b)	G		
Butyraldehyde (all isomers)	BAE	19	0	С	Ш	Α	Yes	1	.55-1(h)	G		
Camphor oil (light)	CPO	18	0	D	Ш	Α	No	N/A	No	G		
Carbon tetrachloride	CBT	36	0	NA	Ш	Α	Yes	3	No	G		
Caustic potash solution	CPS	5 ²	0	NA	Ш	Α	No	N/A	.50-73, .55-1(j)	G		
Caustic soda solution	CSS	5 ²	0	NA	Ш	Α	No	N/A	.50-73, .55-1(j)	G		
Chlorobenzene	CRB	36	0	D	III	Α	Yes	1	No	G		
Chloroform	CRF	36	0	NA	Ш	Α	Yes	3	No	G		
Coal tar naphtha solvent	NCT	33	0	D	Ш	Α	Yes	1	.50-73	G		
Creosote	CCW	21 ²	0	Е	Ш	Α	Yes	1	No	G		
Cresols (all isomers)	CRS	21	0	Е	Ш	Α	Yes	1	No	G		
Cresylate spent caustic	CSC	5	0	NA	Ш	Α	No	N/A	.50-73, .55-1(b)	G		
Cresylic acid tar	CRX	21	0	Е	Ш	Α	Yes	1	.55-1(f)	G		
Crotonaldehyde	CTA	19 ²	0	С	II	Α	Yes	4	.55-1(h)	G		
Crude hydrocarbon feedstock (containing Butyraldehydes and Ethylpropyl acrolein)	CHG	19 ²	0	С	Ш	Α	Yes	1	No	G		
Cyclohexanone	CCH	18	0	D	Ш	Α	Yes	1	.56-1(a), (b)	G		
Cyclohexanone, Cyclohexanol mixture	CYX	18 ²	0	Е	III	Α	Yes	1	.56-1 (b)	G		



Certificate of Inspection

Cargo Authority Attachment

Vessel Name: KIRBY 29327

Shipyard: Trinity Marine

Madisonville

Cargo Identification	Conditions of Carriage									
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	App'd	Recovery VCS Category	Special Requirements in 46 CFR 151 General and Mat'ls of Construction	Insp. Period
Cyclohexylamine	СНА	7	0	D	Ш	Α	Yes	1	.56-1(a), (b), (c), (g)	G
Cyclopentadiene, Styrene, Benzene mixture	CSB	30	0	D	Ш	Α	Yes	1	.50-60, .56-1(b)	G
iso-Decyl acrylate	IAI	14	0	Е	Ш	Α	Yes	2	.50-70(a), .50-81(a), (b), .55-1(c)	G
Dichlorobenzene (all isomers)	DBX	36	0	Е	Ш	Α	Yes	3	.56-1(a), (b)	G
1,1-Dichloroethane	DCH	36	0	С	Ш	Α	Yes	1	No	G
2,2'-Dichloroethyl ether	DEE	41	0	D	II	Α	Yes	1	.55-1(f)	G
Dichloromethane	DCM	36	0	NA	Ш	Α	Yes	5	No	G
2,4-Dichlorophenoxyacetic acid, diethanolamine salt solution	DDE	43	0	Е	Ш	Α	No	N/A	.56-1(a), (b), (c), (g)	G
2,4-Dichlorophenoxyacetic acid, dimethylamine salt solution	DAD	0 1	,2 O	Α	Ш	Α	No	N/A	.56-1(a), (b), (c), (g)	G
2,4-Dichlorophenoxyacetic acid, triisopropanolamine salt solution	DTI	43 ²	. 0	Е	Ш	Α	No	N/A	.56-1(a), (b), (c), (g)	G
1,1-Dichloropropane	DPB	36	0	С	Ш	Α	Yes	3	No	G
1,2-Dichloropropane	DPP	36	0	С	III	Α	Yes	3	No	G
1,3-Dichloropropane	DPC	36	0	С	III	Α	Yes	3	No	G
1,3-Dichloropropene	DPU	15	0	D	II	Α	Yes	4	No	G
Dichloropropene, Dichloropropane mixtures	DMX		0	С	II	Α	Yes	1	No	G
Diethanolamine	DEA	8	0	E	III	Α	Yes	1	.55-1(c)	G
Diethylamine	DEN	7	0	С	III	Α	Yes	3	.55-1(c)	G
Diethylenetriamine	DET	7 2		E	III	Α	Yes	1	.55-1(c)	G
Diisobutylamine	DBU	7	0	D	 	A	Yes	3	.55-1(c)	G
Diisopropanolamine	DIP	8	0	E	III	A	Yes	1	.55-1(c)	G
Diisopropylamine	DIA	7	0	С		A	Yes	3	.55-1(c)	G
	DAC	10	0	E	III	A	Yes	3	.56-1(b)	G
N,N-Dimethylacetamide	DMB	8	0	D	III	A	Yes	1	.56-1(b), (c)	G
Dimethylethanolamine Dimethylethanolamine	DMF	10	0	D	III	A	Yes	1	.55-1(e)	G
Dimethylformamide Dimethylformamide	DNA	7	0	С	II.		Yes	3	.55-1(c)	
Di-n-propylamine De de ordeline the de ordeline attende	DOT	7	0	E		Α		N/A	.56-1(b)	
Dodecyldimethylamine, Tetradecyldimethylamine mixture					III	Α	No		No No	
Dodecyl diphenyl ether disulfonate solution	DOS	43	0	#	<u>II</u>	Α .	No	N/A	No	
EE Glycol Ether Mixture	EEG	40	0	D	III	A	No	N/A		 G
Ethanolamine	MEA	8	0	E	III	A	Yes	1	.55-1(c)	G
Ethyl acrylate	EAC	14	0	С	III	A	Yes	2	.50-70(a), .50-81(a), (b)	
Ethylamine solutions (72% or less)	EAN	7	0	Α	II	A	Yes	6	.55-1(b)	G G
N-Ethylbutylamine	EBA	7	0	D	III	A	Yes	3	.55-1(b)	
N-Ethylcyclohexylamine	ECC	7	0	D	III	Α	Yes	1	.55-1(b)	G
Ethylene cyanohydrin	ETC	20	0	E	III	Α	Yes	1	No	G
Ethylenediamine	EDA	7 2		D	Ш	Α	Yes	1	.55-1(c)	G
Ethylene dichloride	EDC	36 ²		С	Ш	Α	Yes	1	No	G
Ethylene glycol hexyl ether	EGH		0	E	III	A	No	N/A	No	G
Ethylene glycol monoalkyl ethers	EGC	40	0	D/E	Ш	Α	Yes	1	No	G
Ethylene glycol propyl ether	EGP	40	0	Е	III	Α	Yes	1	No	G
2-Ethylhexyl acrylate	EAI	14	0	Е	III	Α	Yes	2	.50-70(a), .50-81(a), (b)	G
Ethyl methacrylate	ETM	14	0	D/E	Ш	Α	Yes	2	.50-70(a)	G
2-Ethyl-3-propylacrolein	EPA	19 ²	0	E	III	Α	Yes	1	No	G
Formaldehyde solution (37% to 50%)	FMS	19 ²	. 0	D/E	Ш	Α	Yes	1	.55-1(h)	G
Furfural	FFA	19	0	D	Ш	Α	Yes	1	.55-1(h)	G
Glutaraldehyde solutions (50% or less)	GTA	19	0	NA	Ш	Α	No	N/A	No	G



Certificate of Inspection

Cargo Authority Attachment

Vessel Name: KIRBY 29327

Shipyard: Trinity Marine

Madisonville

Dated:

Serial #: C1-2000602

19-Feb-20

Cargo Identification	Conditions of Carriage									
		Compat						Recovery	Special Requirements in 46 CFR	
Name	Chem Code	Group No	Sub Chapter	Grade	Hull Type	Tank Group	App'd (Y or N)	VCS Category	151 General and Mat'ls of Construction	Insp. Period
			-							
			_	_						
Hexamethylenediamine solution	HMC	7	0	E	III	Α	Yes	1	.55-1(c)	G
Hexamethyleneimine	HMI	7	0	С	II	Α	Yes	1	.56-1(b), (c)	G
Isoprene	IPR	30	0	A	III	A	Yes	7	.50-70(a), .50-81(a), (b)	G
Isoprene, Pentadiene mixture	IPN	30	0	В	III	Α	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	III	Α	No	N/A	.50-73, .56-1(a), (c), (g)	G
Mesityl oxide	MSO	18 ²	0	D	Ш	Α	Yes	1	No	G
Methyl acrylate	MAM	14	0	С	Ш	Α	Yes	2	.50-70(a), .50-81(a), (b)	G
Methylcyclopentadiene dimer	MCK	30	0	С	Ш	Α	Yes	1	No	G
Methyl diethanolamine	MDE	8	0	Е	III	Α	Yes	1	.56-1(b), (c)	G
2-Methyl-5-ethyl pyridine	MEP	9	0	Ε	Ш	Α	Yes	1	.55-1(e)	G
Methyl methacrylate	MMM	14	0	С	Ш	Α	Yes	2	.50-70(a), .50-81(a), (b)	G
2-Methylpyridine	MPR	9	0	D	Ш	Α	Yes	3	.55-1(c)	G
alpha-Methylstyrene	MSR	30	0	D	III	Α	Yes	2	.50-70(a), .50-81(a), (b)	G
Morpholine	MPL	7 2	0	D	Ш	Α	Yes	1	.55-1(c)	G
Nitroethane	NTE	42	0	D	II	Α	No	N/A	.50-81, .56-1(b)	G
1- or 2-Nitropropane	NPM	42	0	D	III	Α	Yes	1	.50-81	G
1,3-Pentadiene	PDE	30	0	Α	III	Α	Yes	7	.50-70(a), .50-81	G
Perchloroethylene	PER	36	0	NA	III	Α	No	N/A	No	G
Polyethylene polyamines	PEB	7 2	0	E	III	Α	Yes	1	.55-1(e)	G
iso-Propanolamine	MPA	8	0	E	III	Α	Yes	1	.55-1(c)	G
Propanolamine (iso-, n-)	PAX	8	0	E	III	Α	Yes	1	.56-1(b), (c)	G
Isopropylamine	IPP	7	0	A	II.	Α	Yes	5	.55-1(c)	G
Pyridine	PRD	9	0	С	III	A	Yes	1	.55-1(e)	G
Pyrolysis Gasoline (containing benzene)	PYG	32	0	С	II	A	No	N/A	.50-60	G
Sodium acetate, Glycol, Water mixture (3% or more Sodium	SAP	5	0		— :: III	A	No	N/A	.50-73, .55-1(j)	G
Hydroxide)	O/ 11	Ü	Ü			,,	140	14// (
Sodium aluminate solution (45% or less)	SAU	5	0	NA	Ш	Α	No	N/A	.50-73, .56-1(a), (b), (c)	G
Sodium chlorate solution (50% or less)	SDD	0 1	,2 O	NA	III	Α	No	N/A	.50-73	G
Sodium hypochlorite solution (20% or less)	SHQ	5	0	NA	Ш	Α	No	N/A	.50-73, .56-1(a), (b)	G
Sodium sulfide, hydrosulfide solution (H2S 15 ppm or less)	SSH	0 1	,2 O	NA	Ш	Α	Yes	1	.50-73, .55-1(b)	G
Sodium sulfide, hydrosulfide solution (H2S greater than 15 ppm but less than 200 ppm)	SSI	0 1	,2 O	NA	III	Α	No	N/A	.50-73, .55-1(b)	G
Sodium sulfide, hydrosulfide solution (H2S greater than 200 ppm)	SSJ	0 1	,2 O	NA	II	Α	No	N/A	.50-73, .55-1(b)	G
Styrene monomer	STY	30	0	D	III	Α	Yes	2	.50-70(a), .50-81(a), (b)	G
1,1,2,2-Tetrachloroethane	TEC	36	0	NA	III	Α	No	N/A	No	G
Tetraethylene pentamine	TTP	7	0	Е	III	Α	Yes	1	.55-1(c)	G
Tetrahydrofuran	THF	41	0	С	III	Α	Yes		.50-70(b)	G
1,2,4-Trichlorobenzene	TCB	36	0	E	III	Α	Yes	1	No	G
1,1,1-Trichloroethane	TCE	36 ²			II	A	No	N/A	.50-73, .56-1(a)	G
1,1,2-Trichloroethane	TCM	36	0	NA	 	A	Yes	1	.50-73, .56-1(a)	G
Trichloroethylene	TCL	36 ²		NA	 III	A	Yes		No	G
	TCN	36	0	E		A	Yes		.50-73, .56-1(a)	G
1,2,3-Trichloropropane	TEA	8 2		E	III	A	Yes	1	.55-1(b)	
Triethylamine Triethylamine	TEN	7	0	C	III	A	Yes	3	.55-1(e)	
	TET	7 2		E					.55-1(b)	
Triethylenetetramine	IEI	1 2	U		III	Α	Yes	1	(0)	



Certificate of Inspection

Cargo Authority Attachment

Vessel Name: KIRBY 29327

Shipyard: Trinity Marine

Madisonville

Cargo Identificatio	Conditions of Carriage									
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	App'd	VCS Category	Special Requirements in 46 CFR 151 General and Mat'ls of Construction	Insp. Period
Triphenylborane (10% or less), caustic soda solution	TPB	5	0	NA	Ш	Α	No	N/A	.56-1(a), (b), (c)	G
Trisodium phosphate solution	TSP	5	0	NA	Ш	Α	No	N/A	.50-73, .56-1(a), (c).	G
Urea, Ammonium nitrate solution (containing more than 2% NH3)	UAS	6	0	NA	Ш	Α	No	N/A	.56-1(b)	G
Vanillin black liquor (free alkali content, 3% or more).	VBL	5	0	NA	III	Α	No	N/A	.50-73, .56-1(a), (c), (g)	G
Vinyl acetate	VAM	13	0	С	III	Α	Yes	2	.50-70(a), .50-81(a), (b)	G
Vinyl neodecanoate	VND	13	0	E	III	Α	No	N/A	.50-70(a), .50-81(a), (b)	G
Vinyltoluene	VNT	13	0	D	III	Α	Yes	2	.50-70(a), .50-81, .56-1(a), (b), (c), (G
Subchapter D Cargoes Authorized for Vapor Contr	ol									
Acetone	ACT	18 2	2 D	С		Α	Yes	1		
Acetophenone	ACP	18	D	Е		Α	Yes	1		
Alcohol (C12-C16) poly(20+) ethoxylates	APW	20	D	Е		Α	Yes	1		
Alcohol (C6-C17) (secondary) poly(3-6) ethoxylates	AEA	20	D	Е		Α	Yes	1		
Alcohol (C6-C17) (secondary) poly(7-12) ethoxylates	AEB	20	D	Е		Α	Yes	1		
Amyl acetate (all isomers)	AEC	34	D	D		А	Yes	1		
Amyl alcohol (iso-, n-, sec-, primary)	AAI	20	D	D		А	Yes	1		
Benzyl acetate	BZE	34	D	Е		А	Yes	1		
Benzyl alcohol	BAL	21	D	Е		Α	Yes	1		
Brake fluid base mixtures (containing Poly(2-8)alkylene(C2-C3) glycols, Polyalkylene(C2-C10) glycol monoalkyl(C1-C4) ethers, and their borate esters)	BFY	20	D	E		А	Yes	1		
Butyl acetate (all isomers)	BAX	34	D	D		Α	Yes	1		
Isobutyl alcohol	IAL	20 2	2 D	D		Α	Yes	1		
Butyl alcohol (n-)	BAN	20 2	2 D	D		Α	Yes	1		
Butyl alcohol (sec-)	BAS	20 2	2 D	С		Α	Yes	1		
Butyl alcohol (tert-)	BAT	20 2	2 D	С		Α	Yes	1		
Butyl benzyl phthalate	BPH	34	D	E		Α	Yes	1		
Butyl toluene	BUE	32	D	D		Α	Yes	1		
Caprolactam solutions	CLS	22	D	Е		Α	Yes	1		
Cycloheptane	CYE	31	D	С		А	Yes	1		
Cyclohexane	CHX		D	С		Α	Yes	1		
Cyclohexanol	CHN		D	E		A	Yes	1		
Cyclohexyl acetate	CYC		D	D		A	Yes	1		
1,3-Cyclopentadiene dimer (molten)	CPD		D	D/E		A	Yes	2		
Cyclopentane Cyclopentane	CYP	31	D	В		A	Yes	1		
p-Cymene	CMP		D	D -		A	Yes	1		
iso-Decaldehyde	IDA	19	D	Е		Α	Yes	1		
n-Decaldehyde	DAL	19	D	Е		Α	Yes	1		
Decanoic acid	DCO		D	#		Α	Yes	1		
Decene	DCE	30	D	D		Α	Yes	1		



Certificate of Inspection

Cargo Authority Attachment

Vessel Name: KIRBY 29327

Shipyard: Trinity Marine

Hull #: 2137-2

Madisonville

Cargo Identification		Conditions of Carriage								
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	App'd	Recovery VCS Category	Special Requirements in 46 CFR 151 General and Mat'ls of Construction	Insp. Period
Decyl alcohol (all isomers)	DAX	20 2	! D	E		Α	Yes	1		
n-Decylbenzene, see Alkyl(C9+)benzenes	DBZ	32	D	Е		Α	Yes	1		
Diacetone alcohol	DAA	20 2	. D	D		Α	Yes	1		
Dibutyl phthalate	DPA	34	D	Е		Α	Yes	1		
Diethylbenzene	DEB	32	D	D		Α	Yes	1		
Diethylene glycol	DEG	40 2	! D	Е		Α	Yes	1		
Diisobutylene	DBL	30	D	С		Α	Yes	1		
Diisobutyl ketone	DIK	18	D	D		Α	Yes	1		
Diisopropylbenzene (all isomers)	DIX	32	D	Е		Α	Yes	1		
Dimethyl phthalate	DTL	34	D	Е		Α	Yes	1		
Dioctyl phthalate	DOP	34	D	Е		Α	Yes	1		
Dipentene	DPN	30	D	D		Α	Yes	1		
Diphenyl	DIL	32	D	D/E		Α	Yes	1		
Diphenyl, Diphenyl ether mixtures	DDO	33	D	Е		Α	Yes	1		
Diphenyl ether	DPE	41	D	{E}		Α	Yes	1		
Dipropylene glycol	DPG	40	D	Е		Α	Yes	1		
Distillates: Flashed feed stocks	DFF	33	D	Е		Α	Yes	1		
Distillates: Straight run	DSR	33	D	Е		Α	Yes	1		
Dodecene (all isomers)	DOZ	30	D	D		Α	Yes	1		
Dodecylbenzene, see Alkyl(C9+)benzenes	DDB	32	D	Е		Α	Yes	1		
2-Ethoxyethyl acetate	EEA	34	D	D		Α	Yes	1		
Ethoxy triglycol (crude)	ETG	40	D	Е		Α	Yes	1		
Ethyl acetate	ETA	34	D	С		Α	Yes	1		
Ethyl acetoacetate	EAA	34	D	Е		Α	Yes	1		
Ethyl alcohol	EAL	20 ²	: D	С		Α	Yes	1		
Ethylbenzene	ETB	32	D	С		Α	Yes	1		
Ethyl butanol	EBT	20	D	D		Α	Yes	1		
Ethyl tert-butyl ether	EBE	41	D	С		Α	Yes	1		
Ethyl butyrate	EBR	34	D	D		Α	Yes	1		
Ethyl cyclohexane	ECY	31	D	D		Α	Yes	1		
Ethylene glycol	EGL	20 2	. D	Е		Α	Yes	1		
Ethylene glycol butyl ether acetate	EMA	34	D	Е		Α	Yes	1		
Ethylene glycol diacetate	EGY	34	D	Е		Α	Yes	1		
Ethylene glycol phenyl ether	EPE	40	D	Е		Α	Yes	1		
Ethyl-3-ethoxypropionate	EEP	34	D	D		Α	Yes	1		
2-Ethylhexanol	EHX		D	E		Α	Yes	1		
Ethyl propionate	EPR		D	С		Α	Yes			
Ethyl toluene	ETE	32	D	D		Α	Yes	1		
								-		



Certificate of Inspection

Cargo Authority Attachment

Vessel Name: KIRBY 29327

Shipyard: Trinity Marine

Madisonville

Name	Cargo Identification					Conditions of Carriage						
Furtury lationed FAL 20	Name		Group		Grade		App'd	VCS	151 General and Mat'ls of			
Furtury lationed FAL 20												
Gasoline blending stocks: Alkylates	Formamide	FAM	10	D	Е	Α	Yes	1				
Casoline blending stocks: Reformates	Furfuryl alcohol	FAL	20 2	2 D	Е	Α	Yes	1				
Gasolines: Automotive (containing not over 4.23 grams lead per gallon) GAV 33 D C A Yes 1	Gasoline blending stocks: Alkylates	GAK	33	D	A/C	Α	Yes	1				
Casolines: Aviation (containing not over 4.86 grams of lead per gallon) GAV 33 D C A Yes 1	Gasoline blending stocks: Reformates	GRF	33	D	A/C	Α	Yes	1				
Gasolines: Casinghead (natural) GCS 33 D A/C A Yes 1	Gasolines: Automotive (containing not over 4.23 grams lead per	GAT	33	D	С	Α	Yes	1				
Gasolines: Polymer GPL 33 D A/C A Yes 1	Gasolines: Aviation (containing not over 4.86 grams of lead per gallon) GAV	33	D	С	Α	Yes	1				
Gasolines: Straight run GSR 33 D A/C A Ves 1	Gasolines: Casinghead (natural)	GCS	33	D	A/C	Α	Yes	1				
Gycerine GCR 20 2 D E A Yes 1	Gasolines: Polymer	GPL	33	D	A/C	Α	Yes	1				
Heptane (all isomers), see Alkanes (C6-C9) (all isomers)	Gasolines: Straight run	GSR	33	D	A/C	Α	Yes	1				
New Comments HEN	Glycerine	GCR	20 2	2 D	Ε	Α	Yes	1				
Heptanol (all isomers)	Heptane (all isomers), see Alkanes (C6-C9) (all isomers)	HMX	31	D	С	Α	Yes	1				
Heptene (all isomers)	n-Heptanoic acid	HEN	4	D	Е	Α	Yes	1				
Heptyl acetate	Heptanol (all isomers)	HTX	20	D	D/E	Α	Yes	1				
Hexane (all isomers), see Alkanes (C6-C9)	Heptene (all isomers)	HPX	30	D	С	Α	Yes	2				
Hexanoic acid	Heptyl acetate	HPE	34	D	Е	Α	Yes	1				
Hexanol	Hexane (all isomers), see Alkanes (C6-C9)	HXS	31 ²	2 D	B/C	Α	Yes	1				
Hexne (all isomers)	Hexanoic acid	НХО	4	D	Е	Α	Yes	1				
Hexylene glycol	Hexanol	HXN	20	D	D	Α	Yes	1				
IPH	Hexene (all isomers)	HEX	30	D	С	Α	Yes	2				
Jef fuel: JP-4	Hexylene glycol	HXG	20	D	E	Α	Yes	1				
JPV 33	Isophorone	IPH	18 ²	2 D	Е	Α	Yes	1				
Kerosene KRS 33 D D A Yes 1 Methyl acetate MTT 34 D D A Yes 1 Methyl alcohol MAC 34 D D A Yes 1 Methylamyl acetate MAC 34 D D A Yes 1 Methylamyl acetate MAC 34 D D A Yes 1 Methylamyl acetate MAA 20 D D A Yes 1 Methylamyl acetate MAK 18 D D A Yes 1 Methyl acetate MAK 18 D D A Yes 1 Methyl betyl ketone MBE 41 2 D C A Yes 1 Methyl betyl ketone MBU 34 D C A Yes 1 Methyl betyl ketone MEK 18 2 <	Jet fuel: JP-4	JPF	33	D	E	Α	Yes	1				
Methyl acetate MTT 34 D D A Yes 1 Methyl alcohol MAL 20 ° 2 D C A Yes 1 Methylamyl acetate MAC 34 D D A Yes 1 Methylamyl alcohol MAA 20 D 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 Methyl butyl ketone MBK 18 D C A Yes 1 Methyl ethyl ketone MEK 18 ° 2 D C A Yes 1 Methyl isobutyl ketone MHK 18 ° 2 D C A Yes 1 Methyl isobutyl ketone MIK 18 ° 2 D C A Yes 1 Methyl isobutyl ketone MIK 18 °	Jet fuel: JP-5 (kerosene, heavy)	JPV	33	D	D	Α	Yes	1				
Methyl alcohol MAL 20 2 D C A Yes 1 Methylamyl acetate MAC 34 D D A Yes 1 Methylamyl alcohol MAA 20 D D A Yes 1 Methyl amyl ketone MAK 18 D D A Yes 1 Methyl tetr-butyl ether MBE 41 2 D C A Yes 1 Methyl butyl ketone MBK 18 D C A Yes 1 Methylcyclohexane MCY 31 D C A Yes 1 Methyl ketone MEK 18 2 D C A Yes 1 Methyl isobutyl ketone MHK 18 D D A Yes 1 Mineral spirits MNS 33 D D A Yes 1	Kerosene	KRS	33	D	D	Α	Yes	1				
Methylamyl acetate MAC 34 D D A Yes 1 Methylamyl alcohol MAA 20 D 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 Methyl butyl ketone MBK 18 D C A Yes 1 Methyl butyrate MBU 34 D C A Yes 1 Methylcyclohexane MCY 31 D C A Yes 1 Methyl ketone MEK 18 2 D C A Yes 1 Methyl isobutyl ketone MHK 18 D D A Yes 1 Mineral spirits MNS 33 D D A Yes 1	Methyl acetate	MTT	34	D	D	Α	Yes	1				
Methylamyl alcohol MAA 20 D 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 Methyl butyl ketone MBK 18 D C A Yes 1 Methyl butyrate MBU 34 D C A Yes 1 Methylcyclohexane MCY 31 D C A Yes 1 Methyl ethyl ketone MEK 18 2 D C A Yes 1 Methyl isobutyl ketone MHK 18 D D A Yes 1 Mineral spirits MNS 33 D D A Yes 1	Methyl alcohol	MAL	20 2	2 D	С	Α	Yes	1				
Methyl amyl ketone MAK 18 D D A Yes 1 Methyl tert-butyl ether MBE 41 ° 2 D C A Yes 1 Methyl butyl ketone MBK 18 D C A Yes 1 Methyl butyrate MBU 34 D C A Yes 1 Methylcyclohexane MCY 31 D C A Yes 1 Methyl ethyl ketone MEK 18 ° 2 D C A Yes 1 Methyl isobutyl ketone MIK 18 ° 2 D C A Yes 1 Mineral spirits MNS 33 D D A Yes 1	Methylamyl acetate	MAC	34	D	D	Α	Yes	1				
Methyl tert-butyl ether MBE 41 ² D C A Yes 1 Methyl butyl ketone MBK 18 D C A Yes 1 Methyl butyrate MBU 34 D C A Yes 1 Methylcyclohexane MCY 31 D C A Yes 1 Methyl ethyl ketone MEK 18 ² D C A Yes 1 Methyl isobutyl ketone MIK 18 D D A Yes 1 Mineral spirits MNS 33 D D A Yes 1	Methylamyl alcohol	MAA	20	D	D	Α	Yes	1				
Methyl butyl ketone MBK 18 D C A Yes 1 Methyl butyrate MBU 34 D C A Yes 1 Methylcyclohexane MCY 31 D C A Yes 1 Methyl ethyl ketone MEK 18 2 D C A Yes 1 Methyl isobutyl ketone MIK 18 2 D C A Yes 1 Mineral spirits MNS 33 D D A Yes 1	Methyl amyl ketone	MAK	18	D	D	Α	Yes	1				
Methyl butyrate MBU 34 D C A Yes 1 Methylcyclohexane MCY 31 D C A Yes 1 Methyl ethyl ketone MEK 18 ² D C A Yes 1 Methyl heptyl ketone MHK 18 D D A Yes 1 Methyl isobutyl ketone MIK 18 ² D C A Yes 1 Mineral spirits MNS 33 D D A Yes 1	Methyl tert-butyl ether	MBE	41 2	2 D	С	Α	Yes	1				
Methylcyclohexane MCY 31 D C A Yes 1 Methyl ethyl ketone MEK 18 2 D C A Yes 1 Methyl heptyl ketone MHK 18 D D A Yes 1 Methyl isobutyl ketone MIK 18 2 D C A Yes 1 Mineral spirits MNS 33 D D A Yes 1	Methyl butyl ketone	MBK	18	D	С	Α	Yes	1				
Methyl ethyl ketone MEK 18 ² D C A Yes 1 Methyl heptyl ketone MHK 18 D D A Yes 1 Methyl isobutyl ketone MIK 18 ² D C A Yes 1 Mineral spirits MNS 33 D D A Yes 1	Methyl butyrate	MBU	34	D	С	Α	Yes	1				
Methyl heptyl ketone MHK 18 D D A Yes 1 Methyl isobutyl ketone MIK 18 ² D C A Yes 1 Mineral spirits MNS 33 D D A Yes 1	Methylcyclohexane	MCY	31	D	С	Α	Yes	1				
Methyl isobutyl ketone MIK 18 ² D C A Yes 1 Mineral spirits MNS 33 D D A Yes 1	Methyl ethyl ketone	MEK	18 2	2 D	С	 Α	Yes	1				
Mineral spirits MNS 33 D D A Yes 1	Methyl heptyl ketone	МНК	18	D	D	Α	Yes	1				
·	Methyl isobutyl ketone	MIK	18 2	2 D	С	 Α	Yes	1				
Myrcene MRE 30 D D A Yes 1	Mineral spirits	MNS	33	D	D	 Α	Yes	1				
	Myrcene	MRE	30	D	D	Α	Yes	1		· 		



Certificate of Inspection

Cargo Authority Attachment

Vessel Name: KIRBY 29327

Shipyard: Trinity Marine

Madisonville

Cargo Identification	Conditions of Carriage									
	01	Compat	0.1					Recovery	Special Requirements in 46 CFR	1.
Name	Chem Code	Group No	Sub Chapter	Grade	Hull Type	Tank Group	App'd (Y or N)	VCS Category	151 General and Mat'ls of Construction	Insp. Period
									<u> </u>	
Naphtha: Heavy	NAG	33	D	#		Α	Yes	1		
Naphtha: Petroleum	PTN	33	D	#		Α	Yes	1		
Naphtha: Solvent	NSV	33	D	D		Α	Yes	1		
Naphtha: Stoddard solvent	NSS	33	D	D		Α	Yes	1		
Naphtha: Varnish makers and painters (75%)	NVM	33	D	С		Α	Yes	1		
Nonane (all isomers), see Alkanes (C6-C9)	NAX	31	D	D		Α	Yes	1		
Nonene (all isomers)	NON	30	D	D		Α	Yes	2		
Nonyl alcohol (all isomers)	NNS	20 ²	. D	Е		Α	Yes	1		
Nonyl phenol	NNP	21	D	Е		Α	Yes	1		
Nonyl phenol poly(4+)ethoxylates	NPE	40	D	Е		Α	Yes	1		
Octane (all isomers), see Alkanes (C6-C9)	OAX	31	D	С		Α	Yes	1		
Octanoic acid (all isomers)	OAY	4	D	Е		Α	Yes	1		
Octanol (all isomers)	OCX	20 2	: D	Е		Α	Yes	1		
Octene (all isomers)	OTX	30	D	С		Α	Yes	2		
Oil, fuel: No. 2	OTW	33	D	D/E		Α	Yes	1		
Oil, fuel: No. 2-D	OTD	33	D	D		Α	Yes	1		
Oil, fuel: No. 4	OFR	33	D	D/E		Α	Yes	1		
Oil, fuel: No. 6	OSX	33	D	Е		Α	Yes	1		
Oil, misc: Crude	OIL	33	D	A/D		Α	Yes	1		
Oil, misc: Diesel	ODS	33	D	D/E		Α	Yes	1		
Oil, misc: Gas, high pour	OGP	33	D	Е		Α	Yes	1		
Oil, misc: Lubricating	OLB	33	D	Е		Α	Yes	1		
Oil, misc: Residual	ORL	33	D	Е		Α	Yes	1		
Oil, misc: Turbine	ОТВ	33	D	Е		Α	Yes	1		
alpha-Olefins (C6-C18) mixtures	OAM	30	D	Е		Α	Yes	1		
Olefins (C13+, all isomers)	OFZ	30	D	Е		Α	Yes	1		
Pentane (all isomers)	PTY	31	D	Α		Α	Yes	5		
Pentene (all isomers)	PTX	30	D	Α		Α	Yes	5		
n-Pentyl propionate	PPE	34	D	D		Α	Yes	1		
alpha-Pinene	PIO	30	D	D		Α	Yes	1		
beta-Pinene	PIP	30	D	D		Α	Yes	1		
Poly(2-8)alkylene glycol monoalkyl (C1-C6) ether	PAG	40	D	Е		Α	Yes	1		
Poly(2-8)alkylene glycol monoalkyl (C1-C6) ether acetate	PAF	34	D	Е		Α	Yes	1		
Polybutene	PLB	30	D	Е		Α	Yes	1		
Polypropylene glycol	PGC	40	D	Е		Α	Yes	1		
Isopropyl acetate	IAC	34	D	С		Α	Yes	1		
n-Propyl acetate	PAT	34	D	С		Α	Yes	1		
Isopropyl alcohol	IPA	20 ²	2,3 D	С		Α	Yes	1		



Certificate of Inspection

Cargo Authority Attachment

Vessel Name: KIRBY 29327

Shipyard: Trinity Marine

Madisonville

Cargo Identification							Conditions of Carriage				
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	Vapor F App'd	Recovery	Special Requirements in 46 CFR 151 General and Mat'ls of Construction	Insp. Period	
n-Propyl alcohol	PAL	20 2		С		Α	Yes	1			
Propylbenzene (all isomers)	PBY	32	D	D		Α	Yes	1			
Isopropylcyclohexane	IPX	31	D	D		Α	Yes	1			
Propylene glycol	PPG	20 2	. D	Е		Α	Yes	1			
Propylene glycol methyl ether acetate	PGN	34	D	D		Α	Yes	1			
Propylene tetramer	PTT	30	D	D		Α	Yes	1			
Sulfolane	SFL	39	D	Е		Α	Yes	1			
Tetraethylene glycol	TTG	40	D	Е		Α	Yes	1			
Tetrahydronaphthalene	THN	32	D	Е		Α	Yes	1			
Toluene	TOL	32	D	С		Α	Yes	1			
Tricresyl phosphate (containing less than 1% ortho isomer)	TCP	34	D	Е		Α	Yes	1			
Triethylbenzene	TEB	32	D	E		Α	Yes	1			
Triethylene glycol	TEG	40	D	Е		Α	Yes	1			
Triethyl phosphate	TPS	34	D	Е		Α	Yes	1			
Trimethylbenzene (all isomers)	TRE	32	D	{D}		Α	Yes	1			
Trixylyl phosphate	TRP	34	D	E		Α	Yes	1			
1-Undecene	UDC	30	D	D/E		Α	Yes	1			
1-Undecyl alcohol	UND	20	D	Е		Α	Yes	1			
Xylenes (ortho-, meta-, para-)	XLX	32	D	D		Α	Yes	1			



Certificate of Inspection

Serial #: C1-2000602

19-Feb-20

Dated:

Cargo Authority Attachment

Vessel Name: KIRBY 29327 Shipyard: Trinity Marine

Hull #: 2137-2 Official #: 1166419 Page 9 of 9

Explanation of terms & symbols used in the Table:

Cargo Identification

Note 1

A. B. C

NA

Hull Type

NA

Note 4

Name The propper 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 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. none

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, Compatability Group No

and appendices of 46 CFR 150 in conjunction with the assigned reactive group number. Because of the very high reactivity or unusual conditions of carriage or potential compatibility problems, this product is not assigned to a specific group in the Compatibility 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 Note 2 See Appendix I to 46 CFR Part 150 - exceptions to the compatability chart.

The subchapter in Title 46 Code of Federal Regulations under which the cargo has been classified Subchapter Subchapter D

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. Subchapter O Note 3

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

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

that grade of cargo Flammable liquid cargoes, as defined in 46 CFR 30-10.22 Combustible liquid cargoes, as defined in 46 CFR 30-10.15.

The flammability/combustibility grade of these cargoes may vary depending upon the flashpoint and Reid vapor pressure. The Person-in-Charge shall verify the cargo grade based on Manufacturers data and ensure that the barge is authorized for carriage of that grade of cargo.

Those subchapter O cargoes which are not classified as a flammable or combustible liquid.

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

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

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

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

Not applicable to barges certificated under Subchapter D.

Conditions of Carriage

Tank Group Vapor Recovery Approved (Y or N)

The vessel's tank group (as defined in Section 4) which is authorized for carriage of the named cargo

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

Conditions of Carriage

Tank Group Vapor Recovery Approved (Y or N)

Category 2

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

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

VCS Category: The specified cargo's provisional classification for vapor control systems. Category 1

(No additional VCS requirements above those for benzene, gasolines and crude oil) All requirements applying to the handling of oil and hazardous materials in Titles 33 and 46 Code of Federal Regulations (CFR) apply to these cargoes. Those specifically dealing with vapor control systems are in 33 CFR 155.750, 33 CFR 156.120, 33 CFR 156.170, 46 CFR 35.35 and 46 CFR 39. The cargo tank venting system calculations (46 CFR 39.20-11) and the pressure drop calculations (46 CFR 39.30-1(b))

must use appropriate friction factors, vapor densities and vapor growth rates.

(Polymerizes) Polymerization and restricting vapor flow which could lead to cargo tank overpressurization. The vessel's owner must develop a method of ensuring all VCS safety components are functional and polymer build-up is not causing an unsafe condition due to increased pressure in the vapor control piping and cargo tanks. The method shall be acceptable to the local Officer in Charge, Marine Inspection. This is in addition to the requirements of Category 1. Please note that a material not normally considered a monomer can be a problem in detonation arrester.

Category 3 (Highly toxic) VCSs for these toxic cargoes cannot use a spill valve or rupture disk as the primary means to meet the overfill protection requirement of 46 CFR 39.20-9.

This requirement is in addition to the requirements of Category 1.

Category 4 (Polymerizes and highly toxic) Must comply with requirements of Categories 1, 2 and 3.

Category 5 (High vapor pressure) VCS pressure drop calculations for cargoes with a vapor pressure greater than 14.7 psia at 115 F must take into account increased vapor-air

mixture densities and vapor growth rates as compared to Category 1 cargoes. Consult the Marine Safety Center's VCS Guidelines for further information. This requirement is in addition to the requirements of Category 1.

Category 6 (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

The cargo has not been evaluated/classified for use in vapor control systems none