

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

Certification Date: 05 Sep 2023 **Expiration Date:** 05 Sep 2028

Certificate of Inspection

Vessel Name	Off	Icial Number	IMO Num	ber	Call Sign	Service	
MMI 3031	11	139045				Tank	Barge
Hailing Port							
HOUSTON, TX		Hull Material	Horse	power	Propulsion		
UNITED STATES		Steel			None		
Place Built		Delivery Date	Keel Laid Date	Gross Tons	Net Tons	DWT	l anada
ASHLAND CITY, TN		25Apr2003	12Mar2003	R-1619	R-1619	DWI	Length R-297,5
UNITED STATES		# W. P.	Tarrier my c y	+	F		10
Owner HIGMAN BARGE LINES 55 WAUGH DR STE 100 HOUSTON, TX 77007 UNITED STATES This vessel must be mann	Ö	ing Hoomand	1835 CHAI UNIT	Y INLAND) MARKET NNELVIEW ED STATE	/, TX 77530 S	L-7-b About	
0 Certified Lifeboatmen, 0	Certified Tanker	men, 0 HSC	Type Rating, a	nd 0 GMD	SS Operators.	nich there n	iust de
0 Masters	0 Licensed Mates		Engineers	0 0	ilers		
0 Chief Mates	0 First Class Pilot		ssistant Engineer				
0 Second Mates 0 Third Mates	Radio Officers Able Seamen		d Assistant Engin Assistant Enginee				
0 Master First Class Pilot	0 Ordinary Seame		ed Engineers	8			
0 Mate First Class Pilots	0 Deckhands		ed Member Engin	9 8 °			
In addition, this vessel may Persons allowed: 0	y carry 0 Passenç	jers, 0 Other	Persons in cre	w, 0 Persor	ns in addition to	crew, and	no Others. Total
Route Permitted And Co	onditions Of Ope	eration:					
Lakes, Bays, and	Sounds						
This vessel has been gr vessel is operated in s salt water intervals pe change in status occurs	alt water more r 46 CFR 31.10-	than 6 mont	hs in any 12	month per.	iod, the vess	el must be	inspected using

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

SEE NEXT PAGE FOR ADDITIONAL CERTIFICATE INFORMATION

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

	Annual/Perio		spection	This certificate issued by: Ja J Woodmen
Date	Zone	A/P/R	Signature	L. L. WOODMAN, CDR, USCG, By direction
11.4.24	HOUSTON	A	JAKE FRANCIS	Officer in Charge, Marine Inspection Marine Safety Unit Port Arthur
HE V				Inspection Zone



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---Hull Exams---

Exam Type

Next Exam

Last Exam

Prior Exam

DryDock

31Aug2028

10Aug2018

24Apr2013

Internal Structure

30Sep2028

05Sep2023

10Aug2018

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

Authorization:

FLAMMABLE/COMBUSTIBLE LIQUIDS AND SPECIFIED HAZARDOUS CARGOES

Total Capacity

Units

Highest Grade Type Part151 Regulated Part153 Regulated

Part154 Regulated

29430

Barrels

Yes

No

(lbs/gal)

Hazardous Bulk Solids Authority

Not Authorized

Loading Constraints - Structural

Tank Number	Max Cargo Weight per Tank (short tons)	Maximum Density
1S	840	13.6
1P	840	13.6
2S	792	13.6
2P	792	13.6
3S	780	13.6
3P	780	13.6

Loading Constraints - Stability

Hull Type	Maximum Load (short tons)	Maximum Draft (ft/in)	Max Density (lbs/gal)	Route Description
П	3605	9ft 6in	13.6	L, B, S
II	3605	9ft 6in	13.6	R .
III	4593	11ft 6in	13.6	L, B, S
111	4593	11ft 6in	13.6	R

Conditions Of Carriage

Only those specified hazardous cargoes named in the vessel's Cargo Authority Attachment (CAA), serial # C1-0305115, dated 15 May 2003, may be carried. The specified hazardous cargoes may be carried only in the tanks indicated.

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

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

Per 46 CFR 39, excluding part 39.4000, this vessel's vapor control system (VCS) has been inspected to the plans approved by Marine Safety Center letters Serial #C1-0305115 dated 15 May 2003 and found acceptable for collection of bulk liquid cargo vapors annotated with "Yes" in the CAA's VCS column.

^{*}Vapor Control Authorization*



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Per 46 CFR 39.1017 and 39.5000(e), this vessel's VCS has been evaluated and approved for multi-breasted tandem loading with other vessels specifically approved to tandem load with this vessel.

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

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.

--- Inspection Status ---

Cargo Tanks

		Internal Exam		*	External Exam	ĭ.	
	Tank Id	Previous	Last	Next	Previous	Last	Next
	18	24Apr2013	10Aug2018	31Aug2028	-	-	-
	1P	24Apr2013	10Aug2018	31Aug2028	-	-	-
	2S	24Apr2013	10Aug2018	31Aug2028	-	-	- 2
	2P	24Apr2013	10Aug2018	31Aug2028	-	-	-
	3S	24Apr2013	10Aug2018	31Aug2028	-	-	-
١	3P	24Apr2013	10Aug2018	31Aug2028	_	-	-
				Hydro Test			
	Tank Id	Safety Valves		Previous	Last	Next	
	1S			-	-	=	
	1P	-		-	-	-	
	2S	-		-	-	-	
	2P			-	-	-	
	3S	=		-	-	-	
	3P	-		-		-	
1							

---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 B-II

END

^{*}Stability and Trim*



Department of Homeland Security United States Coast Guard

Serial #: C1-0305115 Generated: 15-May-03

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Cargo Authority Attachment

Vessel Name: MMI 3031 Official #: 1139045 Shipyard: Trinity Ashland City

Hull #: 4443

Tank Group Information		Cargo Identification			Cargo	Tanks		Cargo Transfer		Environmental Control		Fire	Special Requirements					
Tnk Grp	Tanks in Group	Density	Press.	Temp.	Hull Typ	Seg Tank	Туре	Vent	Gauge	Pipe Class	Cont	Tanks	Handling Space	Protection Provided	General	Materials of Construction		Temp Cont
A #	1 - #3 P/S	13.6	Atmos.	Amb.	11	1ii 2ii	Integral Gravity	PV	Closed	11	G-1	NR	NA	Portable	.50-60, .50-73, .50-81(a), .50- 81(b), .50-86,	55-1(b), (c), (e), (f), (h), 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

Actionitrile ATN 37 O C III A Yes 3 No Actylonitrile ACN 15 2 0 C II A Yes 4 .50-70(a), .55-1(e) Adiponitrile ADN 37 0 E II A Yes 1 No Alkyl(C7-C9) nitrates AKN 34 2 0 NA NII A No N/A .50-81, .50-86 Aminoethylethanolamine AEE 8 0 E III A Yes 1 .50-81, .50-86 Ammonium bisulfitte solution (70% or less) ABX 43 2 0 NA III A No N/A .50-73, .56-1(a), (b), (c) Ammonium hydroxide (28% or less NH3) AMH 6 0 NA III A No N/A .50-1(a), (b), (c), (f), (g) Anthracene oil (Coal tar fraction) AHO 33 0 N NA III A No N/A No N/A No N/A No N/A No No N/A No No No No	Cargo Identification							Co	nditio	ns of Carriage
Name Code										
Acetonitrile	Name				Grade					
Activation Act	Authorized Subchapter O Cargoes									
Adjponitrile ADN 37	Acetonitrile	ATN	37	0	С	111	Α	Yes	3	No
Alkyl(C7-C9) nitrates	Acrylonitrile	ACN	15 ²	0	С	II	Α	Yes	4	.50-70(a), .55-1(e)
Ammonium hydrithanolamine AEE 8	Adiponitrile	ADN	37	0	E	li	Α	Yes	1	No
Ammonium bisulfite solution (70% or less) ABX 43 2 O NA III A No N/A 50-73, 55-1(a), (b), (c)	Alkyl(C7-C9) nitrates	AKN	34 ²	0	NA	III	Α	No	N/A	.50-81, .50-86
Ammonium hydroxide (28% or less NH3) AMH 6 O NA III A No N/A 56-(a), (b), (c), (c), (d) Anthracene oil (Coal tar fraction) AHO 33 O NA II A No N/A No Benzene BNZ 32 O C III A Yes 1 50-60 Benzene or hydrocarbon mixtures (containing Acetylene and 10% BHA 32 ° O NA III A Yes 1 50-60, 56-1(b), (d), (f), (g) Benzene or hydrocarbon mixtures (10% Benzene or more) BTX 32 ° O BIC III A Yes 1 50-60, 56-1(b), (d), (f), (g) Benzene, Toluene, Xylene mixtures (10% Benzene or more) BTX 32 ° O BIC III A Yes 1 50-60, 56-1(b), (d), (f), (g) Butyl acrylate (all isomers) BAR 14 ° O D III A Yes 2 50-70(a), 50-61(a), (b) Butyl acrylate (all isomers) BAE 19 ° O <td>Aminoethylethanolamine</td> <td>AEE</td> <td>8</td> <td>0</td> <td>E</td> <td>111</td> <td>Α</td> <td>Yes</td> <td>1</td> <td>.55-1(b)</td>	Aminoethylethanolamine	AEE	8	0	E	111	Α	Yes	1	.55-1(b)
Anthracene oil (Coal tar fraction)	Ammonium bisulfite solution (70% or less)	ABX	43 ²	0	NA	III	. A	No	N/A	.50-73, .56-1(a), (b), (c)
Benzene BNZ 32 O C III A Yes 1 50-60 Benzene or hydrocarbon mixtures (containing Acetylene and 10% Benzene or more) BHA 32 2 O NA III A Yes 1 50-60 Benzene or more) BRA 32 2 O NA III A Yes 1 50-60 50-60 50-60 50-60 50-60 50-60 50-60 50-60 50-60 50-60 50-60 50-70(a), 50-81(a), (b) 60-70(a), 50-81(a), (b)	Ammonium hydroxide (28% or less NH3)	AMH	6	0	NA	III	Α	No	N/A	.56-1(a), (b), (c), (f), (g)
Benzene or hydrocarbon mixtures (having 10% Benzene or more) Benzene or hydrocarbon mixtures (containing Acetylene and 10% Benzene or hydrocarbon mixtures (containing Acetylene and 10% Benzene or hydrocarbon mixtures (containing Acetylene and 10% Benzene, Toluene, Xylene mixtures (10% Benzene or more) Benzene, Toluene, Xylene mixtures (10% Benzene or more) Borne, Xylene mixtures (10% Benzene or more) Borne, Toluene, Xylene mixtures (10% Benzene or more) Borne, Toluene, Xylene mixtures (10% Benzene or more) Borne, Ylene Mixtures (10% Benzene or more) Borne, Xylene Mixtures (10% B	Anthracene oil (Coal tar fraction)	AHO	33	0	NA	IJ	Α	No	N/A	No
Benzene or hydrocarbon mixtures (containing Acetylene and 10% Benzene or more) Benzene or hydrocarbon mixtures (10% Benzene or more) Benzene, Toluene, Xylene mixtures (10% Benzene or more) BAR 14 0 D III A Yes 2 .50-70(a). 50-81(a). (b) Butyl acrylate (all isomers) BAR 14 0 D III A Yes 2 .50-70(a). 50-81(a). (b) Butyl acrylate (all isomers) BAR 19 0 C III A Yes 1 .55-1(b) Camphor oil (light) Camphor oil (light) CPO 18 0 D III A No N/A No Carbon tetrachloride CBT 36 0 NA III A No N/A No Chemical Oil (refined, containing phenolics) COD 21 0 E II A No N/A No Chlorobenzene CRB 36 0 E III A Yes 1 .No Chloroform CRF 36 0 E III A Yes 1 .No Chloroform CRF 36 0 E III A Yes 1 .No Cresols (all isomers) Cresols (all isomers) CRS 21 0 E III A Yes 1 .No Cresols (all isomers) CRS 21 0 E III A Yes 1 .No Cresols (all isomers) CRS 21 0 E III A Yes 1 .No Cresols (all isomers) CRS 21 0 E III A Yes 1 .No Cresols (all isomers) CRS 21 0 E III A Yes 1 .No Cresols (all isomers) CRS 21 0 E III A Yes 1 .No Cresols (all isomers) CRS 21 0 E III A Yes 1 .No Cresols (all isomers) CRS 21 0 E III A Yes 1 .No Cresols (all isomers) CRS 21 0 E III A Yes 1 .No Cresols (all isomers) CRS 21 0 E III A Yes 1 .No Cresols (all isomers) CRS 21 0 E III A Yes 1 .No Cresols (all isomers) CRS 21 0 E III A Yes 1 .No Cresols (all isomers) Cresols (acid tar CRX 0 III A Yes 1 .No Cresols (acid tar CRX 0 III A Yes 1 .No Cresols (acid tar CRX 0 III A Yes 1 .No Cresols (acid tar CRX 0 III A Yes 1 Set-1(b) Cresols (acid tar CRX 0 III A Yes 1 Set-1(b) Cresols (acid tar CRX 0 III A Yes 1 Set-1(b) Cresols (acid tar CRX 0 III A Yes 1 Set-1(b) Cresols (acid tar CRX 0 III A Yes 1 Set-1(b) (b) (c) (c) Cresols (acid tar CRX 0 III A Yes 1 Set-1(b) (b) (c) (c) Cresols (acid tar CRX 0 III A Yes 1	Benzene	BNZ	32	0	С	- 111	Α	Yes	1	.50-60
Benzene or more Benzene, Toluene, Xylene mixtures (10% Benzene or more) BTX 32 O B/C III A Yes 1 50-60 Butyl acrylate (all isomers) BAR 14 O D III A Yes 2 50-70(a), 50-81(a), (b) Butyl methacrylate BMH 14 O D III A Yes 2 50-70(a), 50-81(a), (b) Butyl methacrylate BMH 14 O D III A Yes 2 50-70(a), 50-81(a), (b) Butyl methacrylate BMH 14 O D III A Yes 2 50-70(a), 50-81(a), (b) Butyl methacrylate BMH 14 O D III A Yes 1 55-1(b) Butyl methacrylate BMH 14 O D III A Yes 1 55-1(b) Camphor oil (light) CPO 18 O D III A No N/A No N/A Carbon tetrachloride CBT 36 O NA III A No N/A No N/A Chemical Oil (refined, containing phenolics) COD 21 O E III A Yes 1 No Chloroform CRF 36 O E III A Yes 1 No Chloroform CRF 36 O E III A Yes 1 No Carbon tetrachloride CRM 37 O E III A Yes 1 No Cressolte CCW 21 O E III A Yes 1 No Cressylate spent caustic CSC 5 O NA III A Yes 1 No Cressylate spent caustic CRM	Benzene or hydrocarbon mixtures (having 10% Benzene or more)	внв	32 ²	0	NA	111	Α	Yes	1	.50-60
Butyl acrylate (all isomers) BAR 14 O D III A Yes 2 50-70(a) 50-81(a) (b)	Benzene or hydrocarbon mixtures (containing Acetylene and 10% Benzene or more)	ВНА	32 ²	0	NA	111	Α	Yes	1	.50-60, .56-1(b), (d), (f), (g)
Butyl methacrylate	Benzene, Toluene, Xylene mixtures (10% Benzene or more)	BTX	32	0	B/C	111	Α	Yes	1	.50-60
Butyraldehyde (all isomers) BAE 19 O C III A Yes 1 55-1(h)	Butyl acrylate (all isomers)	BAR	14	0	D	III	Α	Yes	2	.50-70(a), .50-81(a), (b)
Camphor oil (light)	Butyl methacrylate	ВМН	14	0	D	111	Α	Yes	2	.50-70(a), .50-81(a), (b)
Carbon tetrachloride CBT 36 O NA III A NO N/A NO Chemical Oil (refined, containing phenolics) CDD 21 O E II A NO N/A NO Chemical Oil (refined, containing phenolics) CRB 36 O D III A Yes 1 No Chlorobenzene CRB 36 O E III A Yes 3 No Chloroform CRF 36 O E III A Yes 3 No Coal tar naphtha solvent NCT 33 O D III A Yes 1 No Cresoste CCW 21 2 O E III A Yes 1 No Cresoste CRS 21 O E III A Yes 1 No Cresoste S 1 No Cresoste S 1 O E III A Yes 1 No Cresoste S 21 O E III A Yes 1 No Cresoste S 1 No Cresoste S 21 O E III A Yes 1 No Cresoste S 21 O E III A Yes 1 No Cresoste S 21 O E III A Yes 1 No Cresoste S 21 O E III A Yes 1 No Cresoste S 21 O E III A Yes 1 No Cresoste S 21 O E III A Yes 1 No Cresoste S 21 O E III A Yes 1 No Cresoste S 21 O E III A Yes 1 No Cresoste S 30 O D III A Yes 4 55-1(h) Crede hydrocarbon feedstock (containing Butyraldehydes and Ethylpropyl acrolein) Cyclohexanone Cyclohexanone CYX 18 2 O E III A Yes 1 56-1(a), (b) Cyclohexanone Cyclohexanone Styrene, Benzene mixture CSB 30 O D III A Yes 1 56-1(a), (b) (c), (a) Cyclopentadiene, Styrene, Benzene mixture CSB 30 O D III A Yes 1 56-1(a), (b) (c), (a) Cyclopentadiene, Styrene, Benzene mixture CSB 30 O D III A Yes 2 50-70(a), 50-81(a), (b). 55-1(c) Dichlorobenzene (all isomers) DBX 36 O E III A Yes 3 56-1(a), (b)	Butyraldehyde (all isomers)	BAE	19	0	С	III	Α	Yes	1	.55-1(h)
Chemical Oil (refined, containing phenolics)	Camphor oil (light)	СРО	18	0	D	11	. А	No	N/A	No
Chloroberzene CRB 36 O D III A Yes 1 No Chloroform CRF 36 O E III A Yes 3 No Coal tar naphtha solvent NCT 33 O D III A Yes 1 50-73 Creosote CCW 21 2 O E III A Yes 1 No Cresols (all isomers) CRS 21 O E III A Yes 1 No Cresolt (all isomers) CRS 21 O E III A Yes 1 No Cresolt (all isomers) CRS 21 O E III A Yes 1 No Cresolt (all isomers) CRS 21 O E III A Yes 1 No Cresolt (all isomers) CRS 21 O E III A Yes 1 No Cresolt (all isomers) CRS 21 O E III A Yes 1 No Cresolt (all isomers) CRS 21 O E III A Yes 1 No No N/A 50-73, 55-1(b) Cresolt (all isomers) CRX O III A Yes 1 S0-73 (b) Cresolt (all isomers) CRX O III A Yes 1 S0-74 (b) Cresolt (all isomers) CRX O III A Yes 1 S0-74 (b) Cresolt (all isomers) CRX O III A Yes 1 S0-74 (b) Cresolt (all isomers) CRX O III A Yes 1 S0-74 (b) Cresolt (all isomers) CRX O III A Yes 1 S0-74 (b) Cresolt (all isomers) CRX O D III A Yes 1 S0-74 (b) Cresolt (all isomers) CRX O D III A Yes 1 S0-74 (b) Cresolt (all isomers) CRX O D D III A Yes 1 S0-75 (all isomers) CRX O D D III A Yes 1 S0-75 (all isomers) CRA O D D III A Yes 1 S0-75 (all isomers) CRA O D D III A Yes 1 S0-75 (all isomers) CRA O D D III A Yes 1 S0-75 (all isomers) CRA O D D III A Yes 1 S0-75 (all isomers) CRA O D D III A Yes 2 S0-70 (all isomers) CRA O D D III A Yes 3 S0-70 (all isomers) CRA O D D D D S0-75 (all isomers) CRA O D D D S0-75 (all isomers) CRA O D D S0-75 (all isomers) CRA O D D D S0-75 (all isomers) CRA O D D S0-75 (all isomers)	Carbon tetrachloride	CBT	36	0	NA	III	Α	No	N/A	No ·
Chloroform CRF 36 O E III A Yes 3 No Coal tar naphtha solvent NCT 33 O D III A Yes 1 .50-73 Creosote CCW 21 2 O E III A Yes 1 No Cresols (all isomers) CRS 21 O E III A Yes 1 No Cresylate spent caustic CSC 5 O NA III A No N/A .50-73, .55-1(b) Cresylate spent caustic CSC 5 O NA III A Yes 1 .50-73, .55-1(b) Cresylate spent caustic CRX O III A Yes 1 .55-1(b) Cresylate spent caustic CRX O III A Yes 1 .55-1(b) Cresylicacid tar CRX 192 O C II A Yes <	Chemical Oil (refined, containing phenolics)	COD	21	0	E	П	Α	No	N/A	.50-73
Coal tar naphtha solvent NCT 33 O D III A Yes 1 .50-73 Creosote CCW 21 ² O E III A Yes 1 No Cresols (all isomers) CRS 21 O E III A Yes 1 No Cresylate spent caustic CSC 5 O NA III A No N/A .50-73, .55-1(b) Cresylic acid tar CRX O III A Yes 1 .55-1(f) Crotonaldehyde CTA 19 ² O C II A Yes 4 .55-1(f) Crude hydrocarbon feedstock (containing Butyraldehydes and Ethylpropyl acrolein) CHG O III A Yes 4 .55-1(h) Cyclohexanone CCH 18 O D III A Yes 1 .56-1(a), (b) Cyclohexylamine CHA 7 O D III <td>Chlorobenzene</td> <td>CRB</td> <td>36</td> <td>0</td> <td>D</td> <td>Ш</td> <td>Α</td> <td>Yes</td> <td>1</td> <td>No</td>	Chlorobenzene	CRB	36	0	D	Ш	Α	Yes	1	No
Cresoste CCW 21 2 O E III A Yes 1 No	Chloroform	CRF	36	0	E	111	Α ·	Yes	3	No
Cresols (all isomers)	Coal tar naphtha solvent	NCT	33	0	D	III	Α	Yes	1	.50-73
Cresylate spent caustic CSC 5 O NA III A No N/A 50-73 .55-1(b)	Creosote	CCW	21 ²	0	Е	III	Α	Yes	1	No
Cresylic acid tar	Cresols (all isomers)	CRS	21	0	E	III	Α	Yes	1	No
Crotonaldehyde	Cresylate spent caustic	CSC	5	0	NA	111	Α	No	N/A	.50-73, .55-1(b)
Crude hydrocarbon feedstock (containing Butyraldehydes and Ethylpropyl acrolein) CHG O III A No N/A No Cyclohexanone CCH 18 O D III A Yes 1 .56-1(a), (b) Cyclohexanone, Cyclohexanol mixture CYX 18 O E III A Yes 1 .56-1(a), (b) Cyclohexylamine CHA 7 O D III A Yes 1 .56-1(a), (b), (c), (g) Cyclopentadiene, Styrene, Benzene mixture CSB 30 O D III A Yes 1 .50-80, .56-1(b) iso-Decyl acrylate IAI 14 O E III A Yes 2 .50-70(a), .50-81(a), (b), .55-1(c) Dichlorobenzene (all isomers) DBX 36 O E III A Yes 3 .56-1(a), (b)	Cresylic acid tar	CRX		0		Ш	Α	Yes	1	.55-1(f)
Cyclohexanone CCH 18 O D III A Yes 1 .56-1(a), (b)	Crotonaldehyde	CTA	19 ²	0	С	II	Α	Yes	4	.55-1(h)
Cyclohexanone, Cyclohexanol mixture CYX 18 ² O E III A Yes 1 56-1 (b) Cyclohexylamine CHA 7 O D III A Yes 1 56-1 (a), (b), (c), (g) Cyclopentadiene, Styrene, Benzene mixture CSB 30 O D III A Yes 1 .50-60, .56-1 (b) iso-Decyl acrylate IAI 14 O E III A Yes 2 .50-70(a), .50-81(a), (b), .55-1(c) Dichlorobenzene (all isomers) DBX 36 O E III A Yes 3 .56-1(a), (b)		CHG		0		Ш	Α	No	N/A	No
Cyclohexylamine CHA 7 O D III A Yes 1 56-1(a), (b), (c), (g) Cyclopentadiene, Styrene, Benzene mixture CSB 30 O D III A Yes 1 .50-60, .56-1(b) iso-Decyl acrylate IAI 14 O E III A Yes 2 .50-70(a), .50-81(a), (b), .55-1(c) Dichlorobenzene (all isomers) DBX 36 O E III A Yes 3 .56-1(a), (b)	Cyclohexanone	ССН	18	0	D	III	Α,	Yes	1	.56-1(a), (b)
Cyclopentadiene, Styrene, Benzene mixture CSB 30 O D III A Yes 1 50-60, .56-1(b) iso-Decyl acrylate IAI 14 O E III A Yes 2 .50-70(a), .50-81(a), (b), .55-1(c) Dichlorobenzene (all isomers) DBX 36 O E III A Yes 3 .56-1(a), (b)	Cyclohexanone, Cyclohexanol mixture	CYX	18 ²	0	E	111	Α	Yes	1	.56-1 (b)
So-Decyl acrylate	Cyclohexylamine	CHA	7	0	D	III	Α	Yes	1	.56-1(a), (b), (c), (g)
Dichlorobenzene (all isomers) DBX 36 O E III A Yes 3 .56-1(a), (b)	Cyclopentadiene, Styrene, Benzene mixture	CSB	30	0	D	111	Α	Yes	1	.50-60, .56-1(b)
Box 00 0 E III // 100 0	iso-Decyl acrylate	1AI	14	0	E	Ш	Α	Yes	2	.50-70(a), .50-81(a), (b), .55-1(c)
1,1-Dichloroethane DCH 36 O C III A Yes 1 No	Dichlorobenzene (all isomers)	DBX	36	0	E	111	Α	Yes	3	.56-1(a), (b)
	1,1-Dichloroethane	DCH	36	0	С	111	Α	Yes	1	No



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Cargo Authority Attachment

Vessel Name: MMI 3031 Official #: 1139045

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Shipyard: Trinity Ashland City

Cargo Identification	Cargo Identification							Conditions of Carriage Vapor Recovery					
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	App'd (Y or N)	vcs	Special Requirements in 46 CFR 151 General and Mat'ls of Construction				
2,2'-Dichloroethyl ether	DEE	41	0	D	II	Α	Yes	1	.55-1(f)				
Dichloromethane	DCM	36	0	NA	III	Α	No	N/A	No				
2,4-Dichlorophenoxyacetic acid, diethanolamine salt solution	DDE	43	0	NA	III	Α	No	N/A	.56-1(a), (b), (c), (g)				
2,4-Dichlorophenoxyacetic acid, dimethylamine salt solution	DAD	0 1,2	0	NA	III	Α	No	N/A	.56-1(a), (b), (c), (g)				
2,4-Dichlorophenoxyacetic acid, dimethylamine salt solution (70% or less) DDA		0		III	Α	No	N/A	.55-1(b)				
2,4-Dichlorophenoxyacetic acid, triisopropanolamine salt solution	DTI	43 ²	0	NA	Ш	Α	No	N/A	.56-1(a), (b), (c), (g)				
1,1-Dichloropropane	DPB	36	0	С	III	Α	Yes	3	No				
1,2-Dichloropropane	DPP	36	0	С	III	Α	Yes	3	No				
1,3-Dichloropropane	DPC	36	0	С	III	Α	Yes	3	No				
1,3-Dichloropropene	DPU	15	0	D	II	Α	Yes	4	No				
Dichloropropene, Dichloropropane mixtures	DMX	15	0	NA	11	Α	Yes	1	No				
Diethanolamine	DEA	8	0	E	Ш	Α	Yes	1	.55-1(c)				
Diethylamine	DEN	7	0	C	III	A	Yes	3	.55-1(c)				
Diethylenetriamine	DET	7 2	0	E	III	A	Yes	1	.55-1(c)				
Diisobutylamine	DBU	7	0	D	III	A	Yes	3	.55-1(c)				
Diisopropanolamine	DIP	8	0	E	III	A	Yes	1	.55-1(c)				
Diisopropylamine	DIA	7	0		11	A	Yes	3	.55-1(c)				
N,N-Dimethylacetamide	DAC	10	0	E	- <u>ii</u>	A	Yes	3	.56-1(b)				
Dimethylethanolamine	DMB	8	0		III	A	Yes	1	.56-1(b), (c)				
Dimethylformamide	DMF	10	0	D	111	A	Yes	1	.55-1(e)				
Di-n-propylamine	DNA	7	0	С	11	A	Yes	3	.55-1(c)				
Dodecyldimethylamine, Tetradecyldimethylamine mixture	DOT	7	0		<u>''</u>	A	No	N/A	.56-1(b)				
Ethanolamine	MEA	8	0	E	<u> </u>	A	Yes	1	.55-1(c)				
Ethyl acrylate	EAC	14	0	C	111	A A	Yes	2	.50-70(a), .50-81(a), (b)				
Ethylamine solution (72% or less)	EAN	7	0	A		A			.55-1(b)				
N-Ethylbutylamine	EBA	7	0	D	111	A	No	N/A 3	.55-1(b)				
N-Ethylcyclohexylamine	ECC	7	0	D	III	A	Yes		.55-1(b)				
Ethylene cyanohydrin	ETC	20	0	E	<u> </u>		Yes	1	No No				
Ethylenediamine	EDA	7 ²	0	 D	111	A	Yes		.55-1(c)				
Ethylene dichloride	EDC	36 ²	0	C][[A	Yes	1	No No				
Ethylene glycol hexyl ether	EGH	40	0	E		A	Yes	1	No				
Ethylene glycol monoalkyl ethers	EGC	200000	200	30-20300		Α	No	N/A	No				
		40	0	D/E		Α	Yes	11	No				
Ethylene glycol propyl ether	EGP	40	0	E		A	Yes	1					
2-Ethylhexyl acrylate Ethyl methacrylate	EAI ETM	14	0	E D/F		A	Yes	2	.50-70(a), .50-81(a), (b) .50-70(a)				
2-Ethyl-3-propylacrolein	EPA	19 ²	0	D/E	III	A	Yes	2	No No				
		19 ²		_ E		Α	Yes	1					
Formaldehyde solution (37% to 50%) Furfural	FMS		0	D/E	111	A	Yes	1	.55-1(h)				
	FFA	19	0	E		A	Yes	1	.55-1(h)				
Glutaraldehyde solution (50% or less) Hexamethylenediamine solution	GTA	19	0	NA	III	A	No	N/A	No				
Hexamethyleneimine	HMC	7	0	E		A	Yes	1	.55-1(c)				
Hydrocarbon 5-9	HMI	7	0	С		A	Yes	1	.56-1(b), (c)				
	HFN	20	0	_		A	Yes	1	.50-70(a), .50-81(a), (b)				
Isoprene Pentadiene mixture	IPR	30	0	Α	- 111	A	No	N/A	.50-70(a), .50-81(a), (b)				
Isoprene, Pentadiene mixture	IPN		0		- 111	A	No	N/A	.50-70(a), .55-1(c)				
Kraft pulping liquors (free alkali content 3% or more)(including: Black, Green, or White liquor)	KPL	5	0	NA	111	Α	No	N/A	.50-73, .56-1(a), (c), (g)				
Mesityl oxide	MSO	18 2	0	D	III	Α	Yes	1	No .				
Methyl acrylate	MAM	14	0	С	111	Α	Yes	2	.50-70(a), .50-81(a), (b)				
Methylcyclopentadiene dimer	MCK	30	0	С	III	Α	Yes	1	No				



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Cargo Authority Attachment

Vessel Name: MMI 3031 Official #: 1139045

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Shipyard: Trinity Ashland City

Cargo Identification	- 1						Conditions of Carriage				
	Chem	Compat	Sub		Hull	Tank	Vapor F	Recovery	Special Requirements in 46 CFR 151		
Name	Code	Group No	Chapter	Grade	Туре	Group	(Y or N)	Category	General and Mat'ls of Construction		
∕lethyl diethanolamine	MDE	. 8	0	Е	Ш	Α	Yes	1	.56-1(b), (c)		
2-Methyl-5-ethylpyridine	MEP	9	0	Е	307	Α	Yes	1	.55-1(e)		
Methyl methacrylate	MMM	14	0	С	III	Α	Yes	2	.50-70(a), .50-81(a), (b)		
2-Methylpyridine	MPR	9	0	D	111	Α	Yes	3	.55-1(c)		
alpha-Methylstyrene	MSR	30	0	D	111	Α	Yes	2	.50-70(a), .50-81(a), (b)		
Morpholine	MPL	7 2	0	D	III	Α	Yes	1	.55-1(c)		
1- or 2-Nitropropane	NPM	42	0	D	III	Α	Yes	1	.50-81		
1,3-Pentadiene	PDE	30	0	Α	Ш	Α	No	N/A	.50-70(a), .50-81		
Perchloroethylene	PER	36	0	NA	111	Α	No	N/A	No		
Polyethylene polyamines	PEB	7 2	0	E	111	Α	Yes	1	.55-1(e)		
so-Propanolamine	MPA	8	0	E	111	Α	Yes	1	.55-1(c)		
Propanolamine (iso-, n-)	PAX	8	0	E	111	Α	Yes	1	.56-1(b), (c)		
so-Propylamine	IPP	7	0	Α	II	Α	No	N/A	.55-1(c)		
Pyridine	PRD	9	0	С	III	Α	Yes	1.	.55-1(e)		
Sodium aluminate solution (45% or less)	SAU	5	0	NA	III	Α	No	N/A	.50-73, .56-1(a), (b), (c)		
Sodium chlorate solution (50% or less)	SDD	0 1,2	0	NA	111	Α	No	N/A	.50-73		
Sodium hypochlorite solution (20% or less)	SHQ	5	0	NA	111	Α	No	N/A	.50-73, .56-1(a), (b)		
Sodium sulfide, hydrosulfide solution (H2S 15 ppm or less)	SSH	0 1,2	0	NA	III	Α	Yes	1	.50-73, .55-1(b)		
Sodium sulfide, hydrosulfide solution (H2S greater than 15 ppm but less han 200 ppm)	SSI	0 1,2	0	NA	III	Α	No	N/A	.50-73, .55-1(b)		
Sodium sulfide, hydrosulfide solution (H2S greater than 200 ppm)	SSJ	0 1,2	0	NA	11	A	No	N/A	.50-73, .55-1(b)		
Styrene (crude)	STX		0	D	111	Α	Yes	2	No		
Styrene monomer	STY	30	0	D	111	Α	Yes	2	.50-70(a), .50-81(a), (b)		
1,1,2,2-Tetrachloroethane	TEC	36	0	NA	III	Α	No	N/A	No		
Tetraethylenepentamine	TTP	7	0	E	III	Α	Yes	1	.55-1(c)		
Tetrahydrofuran	THF	41	0	С	111	Α	Yes	1	.50-70(b)		
Toluenediamine	TDA	9	0	Е	11	Α	No	N/A	.50-73, .56-1(a), (b), (c), (g)		
1,2,4-Trichlorobenzene	TCB	36	0	E	III	Α	Yes	1	No		
1,1,2-Trichloroethane	TCM	36	0	NA	111	Α	Yes	1	.50-73, .56-1(a)		
Trichloroethylene	TCL	36 ²	0	NA		Α	Yes	1	No		
1,2,3-Trichloropropane	TCN	36	Ó	E	- 11	Α	Yes	3	.50-73, .56-1(a)		
Triethanolamine	TEA	8 ²	0	E	Ш	Α	Yes	1	.55-1(b)		
Triethylamine	TEN	7	0	С	11	Α	Yes	3	.55-1(e)		
Triethylenetetramine	TET	7 2	0	E	III	Α	Yes	1	.55-1(b)		
Triphenylborane (10% or less), caustic soda solution	TPB	5	0	NA	111	Α	No	N/A	.56-1(a), (b), (c)		
Trisodium phosphate solution	TSP	5	0	NA	III	Α	No	N/A	.50-73, .56-1(a), (c).		
Urea, Ammonium nitrate solution (containing more than 2% NH3)	UAS	6	0	NA	111	Α	No	N/A	.56-1(b)		
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)		
Vinyl acetate	VAM	13	0	С	III	Α	Yes	2	.50-70(a), .50-81(a), (b)		
Vinyl neodecanate	VND	13	0	E	111	Α	No	N/A	.50-70(a), .50-81(a), (b)		
Vinyltoluene	VNT	13	0	D	. 111	Α	Yes	2	.50-70(a), .50-81, .56-1(a), (b), (c), (g)		
Subchapter D Cargoes Authorized for Vapor Control	40=	40.2				•					
Acetone	ACT		D			A	Yes	1			
Acetophenone	ACP	V35-55	D	E		A	Yes	1			
Alcohol(C12-C16) poly(1-6)ethoxylates	APU	VALUE OF THE PARTY	D	_ E		A	Yes	1			
Alcohol(C6-C17)(secondary) poly(7-12)ethoxylates	AEB		D	E		Α.	Yes	1			
Amyl acetate (all isomers)	AEC		D	D		A	Yes	1			
Amyl alcohol (iso-, n-, sec-, primary)	AAI	20	D	D		A	Yes	1	and the same of th		



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Vessel Name: MMI 3031 Official #: 1139045

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Shipyard: Trinity Ashland City

Cargo Identification	Cargo Identification								
								Recovery	ons of Carriage
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	App'd (Y or N)	VCS Category	Special Requirements in 46 CFR 151 General and Mat'ls of Construction
Benzyl alcohol	BAL	21	D	E		Α	Yes	1	
Brake fluid base mixtures (containing Poly(2-8)alkylene(C2-C3) glycols, Polyalkylene(C2-C10) glycol monoalkyl(C1-C4) ethers, and their borate esters)	BFX	20	D	E		· - A	Yes	1	N.
Butyl acetate (all isomers)	BAX	34	D	D		Α .	Voc	1	4.5
Butyl alcohol (iso-)	IAL	20 ²	D	D	72 72 H 7 7 8 8	A	Yes	1	
Butyl alcohol (n-)	BAN	20	D	D		A	Yes	1	72 20
Butyl alcohol (sec-)	BAS		D	C		A	Yes	1	
Butyl alcohol (tert-)	BAT		D					15	
Butyl benzyl phthalate	BPH	34	D	E		A	Yes		
Butyl toluene	BUE	32	D	 D			Yes	11	
Caprolactam solutions	CLS	22	D	E		A	Yes	1	
	CHX	31	D	C		Α	Yes	1	· · · · · · · · · · · · · · · · · · ·
Cyclohexanol Cyclohexanol		0.000				Α	Yes		
	CHN	20	D	E		A	Yes	1	
1,3-Cyclopentadiene dimer (molten)	CPD	30	D	D/E		A	Yes	2	
p-Cymene	CMP	32	D	<u>D</u>		Α	Yes	1	
iso-Decaldehyde	IDA	19	D	E		Α	Yes	1	
n-Decaldehyde	DAL	19	D	E		Α	Yes	1	
Decene	DCE	30	D	D		Α	Yes	1	
Decyl alcohol (all isomers)	DAX	20 ²	D	E		A	Yes	11	
n-Decylbenzene, see Alkyl(C9+)benzenes	DBZ	32	D	E		Α	Yes	11	
Diacetone alcohol	DAA	20 ²	D	E		Α	Yes	1	
ortho-Dibutyl phthalate	DPA	34	D	E		Α	Yes	1	
Diethylbenzene	DEB	32	D	D		Α	Yes	1	
Diethylene glycol	DEG	40 ²	D	E		Α	Yes	1	
Diisobutylene	DBL	30	D	С		A	Yes	1	
Diisobutyl ketone	DIK	18	D	D		Α	Yes	1	
Diisopropylbenzene (all isomers)	DIX	32	D	E		Α	Yes	1	
Dimethyl phthalate	DTL	34	D	E		Α	Yes	1	
Dioctyl phthalate	DOP	34	D	Ε		Α	Yes	1	
Dipentene	DPN	30	D	D		Α	Yes	1	10-20-00
Diphenyl	DIL	32	D	D/E		Α	Yes	1	
Diphenyl, Diphenyl ether mixtures	DDO	33	D	Ε		Α	Yes	1	
Diphenyl ether	DPE	41	D	{E}		Α	Yes	1	
Dipropylene glycol	DPG	40	D	E		Α	Yes	1	
Distillates: Flashed feed stocks	DFF	33	D	E		Α	Yes	1	
Distillates: Straight run	DSR	33	D	E		Α	Yes	1	
Dodecene (all isomers)	DOZ	30	D	D		Α	Yes	1	
Dodecylbenzene, see Alkyl(C9+)benzenes	DDB	32	D	E		A	Yes	1	
2-Ethoxyethyl acetate	EEA	34	D	D		A	Yes	1	
Ethoxy triglycol (crude)	ETG	40	D	E		A	Yes	1	
Ethyl acetate	ETA	34	D	C		A	Yes	1	
Ethyl acetoacetate	EAA	34	D	E		A	Yes	1	
Ethyl alcohol	EAL	20 ²	D	C		A	Yes	1	
Ethylbenzene	ETB	32	D	С		A	Yes	1	
Ethyl butanol	EBT	20	D	D		A	Yes	1	
Ethyl tert-butyl ether	EBE	41	D	C		A			
Ethyl butyrate	EBR	34	D	D		13	Yes	1	
Ethyl cyclohexane	ECY	31	D			Α	Yes	1	
Euryi Oyolorioxano	EUY	JT	ט	D		Α	Yes	1	



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Cargo Authority Attachment

Vessel Name: MMI 3031 Official #: 1139045

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Shipyard: Trinity Ashland City

Cargo Identification							Co	onditio	ons of Carriage
								Recovery	
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	App'd (Y or N)	VCS Category	Special Requirements in 46 CFR 151 General and Mat'ls of Construction
Ethylene glycol	EGL	20 ²	D	E		Α	Yes	1	
Ethylene glycol butyl ether acetate	EMA	34	D	E		Α	Yes	1	2 Total Control of the Control of th
Ethylene glycol diacetate	EGY	34	D	E		Α	Yes	1	
Ethylene glycol phenyl ether	EPE	40	D	E		Α	Yes	1	
Ethyl-3-ethoxypropionate	EEP	34	D	E		Α	Yes	1	
2-Ethylhexanol	EHX	20	D	Е		Α	Yes	1	
Ethyl propionate	EPR	34	D	С		Α	Yes	1	
Ethyl toluene	ETE	32	D	E		Α	Yes	1	
Formamide	FAM	10	D	Е		Α	Yes	1	
Furfuryl alcohol	FAL	20 ²	D	E		Α	Yes	1	
Gasoline blending stocks: Alkylates	GAK	33	D	A/C		Α	Yes	1	
Gasoline blending stocks: Reformates	GRF	33	D	A/C		Α	Yes	1	
Gasolines: Automotive (containing not over 4.23 grams lead per gallon)	GAT	33	D	С		Α	Yes	1	
Gasolines: Aviation (containing not over 4.86 grams of lead per gallon)	GAV	33	D	С		Α	Yes	1	98
Gasolines: Casinghead (natural)	GCS	33	D	A/C		Α	Yes	1	CONTRACTOR OF THE CONTRACTOR O
Gasolines: Polymer	GPL	33	D	A/C		Α	Yes	1	
Gasolines: Straight run	GSR		D	A/C		Α	Yes	1	
Glycerine	GCR	20 2	D	E		Α	Yes	1	
Heptane (all isomers), see Alkanes (C6-C9) (all isomers)	HMX	31	D	С		Α	Yes	1	
Heptanoic acid	HEP	4	D	Е		Α	Yes	1	
Heptanol (all isomers)	HTX	20	D	D/E		Α	Yes	1	
Heptene (all isomers)	HPX	2000000	D	С		Α	Yes	2	
Heptyl acetate	HPE		D	D		Α	Yes	1	
Hexane (all isomers), see Alkanes (C6-C9)	HXS	31 ²	D	B/C		A	Yes	1	
Hexanoic acid	НХО		D	E		Α	Yes	1	
Hexanol	HXN	5,016.0	D	D		Α	Yes	1	3 3
Hexene (all isomers)	HEX		D	С		Α	Yes	2	
Hexylene glycol	HXG		D	E		A	Yes	1	
Isophorone	IPH	18 ²	D	E		A	Yes	1	
Jet fuel: JP-4	JPF	33	D	E		Α	Yes	1	
Jet fuel: JP-5 (kerosene, heavy)	JPV	33	D	D		A	Yes	1	
Kerosene	KRS		D	D		Α	Yes	1	
Methyl acetate	MTT	5 33939200	D	D		Α	Yes	1	
Methyl alcohol	MAL	20 ²	D	С		Α	Yes	1	
Methylamyl acetate	MAC		D	D		Α	Yes	1	
Methylamyl alcohol	MAA		D	D		Α	Yes	-1	
Methyl tert-butyl ether	MBE		D	С		Α	Yes	1	
Methyl butyl ketone	MBK		D	С		A	Yes	1	
Methyl butyrate	MBU		D	С		Α	Yes	1	
Methyl ethyl ketone	MEK	18 2	D	С		Α	Yes	1	
Methyl heptyl ketone	МНК		D	D		Α	Yes	1	
Methyl isobutyl ketone	MIK	1000-000		С		Α	Yes	1	
Methyl naphthalene (molten)	MNA		D	Е		Α	Yes	1	
Mineral spirits	MNS		D	D		Α	Yes	1	- A
Myrcene	MRE		D	D		Α	Yes		
Naphtha: Heavy	NAC		D	#		Α	Yes		
Naphtha: Petroleum	PTN		D	#		Α	Yes		
Naphtha: Solvent	NSV		D	D		Α	Yes	1	
								2000	



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Shipyard: Trinity Ashland City

Cargo Identification	Conditions of Carriage								
	Cham	0	0.4					Recovery	
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	App'd (Y or N)	VCS Category	Special Requirements in 46 CFR 151 General and Mat'ls of Construction
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	E		Α	Yes	1 1	
Nonyl phenol poly(4+)ethoxylates	NPE	40	D	E		Α	Yes	1	112
Octane (all isomers), see Alkanes (C6-C9)	OAX	31	D	С		A	Yes	1	
Octanoic acid (all isomers)	OAY	4	D	E		Α	Yes	1	
Octanol (all isomers)	OCX	20 ²	D	E		A	Yes	1	
Octene (all isomers)	OTX	30	D	C	-	A	Yes	2	
Oil, fuel: No. 2	OTW	33	D	D/E		A	Yes	1	
Oil, fuel: No. 4	OFR	33	D	D/E	4	A	Yes	1	
Oil, fuel: No. 5	OFV	33	D	D/E		A	Yes	1	
Oil, fuel: No. 6	OSX	33		E		A	Yes	1	
Oil, misc: Crude	OIL	33	D	C/D		A	Yes	1	
Oil, misc: Diesel	ODS	33		D/E		A	Yes	-1	
Oil, misc: Lubricating	OLB	33	D	E		A	Yes	1	
Oil, misc: Turbine	ОТВ	33	D			A	Yes	1	
alpha-Pinene	PIO	30		D		A	Yes	1	
beta-Pinene	PIP	30	D	D	-	A	Yes	1	
Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether	PAG	40	D	E		A	Yes		
Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether acetate	PAF	34		E		A	Yes	1 1	
Polybutene	PLB	30	D	E		A	Yes	1	
Polypropylene glycol	PGC	40		E		A	Yes		
iso-Propyl acetate	IAC	34	D	C		A		1	
n-Propyl acetate	PAT	34	D	С		A	Yes	1	
iso-Propyl alcohol	IPA	20 ²	D	С			Yes	1	
n-Propyl alcohol	PAL	20 ²	D	C		A	Yes	1	
Propylbenzene (all isomers)	PBY	32	D	D		A	Yes	11	
iso-Propylcyclohexane	IPX	31	D	D		A	Yes	1	
Propylene glycol	PPG	20 2	D	E		A	Yes		
Propylene glycol methyl ether acetate	PGN	34	D	D		A	Yes	1	
Propylene tetramer	PTT	30				A	Yes	1	
Sulfolane	SFL	39	D D	D E		A	Yes	1	
Tetraethylene glycol	TTG	40	D			A	Yes	1	
Tetrahydronaphthalene	THN	32	D D	E F		A	Yes	1	
Toluene		755.00	765			Α	Yes	1	
Tricresyl phosphate (less than 1% of the ortho isomer)	TOL.	32	D	<u>c</u>		Α	Yes	1	
Triethylbenzene	TCP	34	D	_E		Α	Yes	1	
Triethylene glycol	TEB	32		E		A	Yes	1	
Triethyl phosphate	TEG	40		E		A	Yes	1	
Trimethylbenzene (all isomers)	TPS	34	D	E (D)		A	Yes	1	
Trixylenyl phosphate	TRE	32	D	{D}		A	Yes	_1	
Undecene	TRP	34	D	E D/F	-	Α	Yes	1	
1-Undecyl alcohol	UDC	30		D/E		A	Yes	1	
Xylenes (ortho-, meta-, para-)	UND	20		E		A	Yes	1	
	XLX	32	D	D		Α	Yes	1	



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

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Certificate of Inspection

Cargo Authority Attachment

Vessel Name: MMI 3031 Official #: 1139045

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Shipyard: Trinity Ashland

Hull #: 4443

Explanation of terms & symbols used in the Table:

Name Chem Code The proper shipping name as listed in 46 CFR Table 30.25-1, 46 CFR Table 151.05, and 46 CFR Part 153 Table 2.

The three letter designation assigned to the cargo in the Chemical Hazards Response Information System (CHRIS) Manual.

Certain mixtures of cargoes may not have a CHRIS Code assigned.

Compatability Group No.

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

Note 1

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 additional compatibility information, contact Commandant (G-MSO-3), U.S. Coast Guard, 2100 Second Street, SW, Washington, DC 20593-0001. Telephone (202) 267-

Note 2 Subchapter

Subchapter D

Subchapter O

Note 3

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

Those flammable and combustible liquids listed in 46 CFR Table 30.25-1.

Those hazardous cargoes listed in 46 CFR Table 151.05 and 46 CFR Part 153 Table 2.

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

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

Note 4

Flammable liquid cargoes, as defined in 46 CFR 30-10.22

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

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

cargo grade based on Manufacturers data and ensure that the barge is authorized for carriage of that grade of cargo.

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

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

Hull Type

NA

NA

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

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

Designed to carry products which require the maximum preventive measures to preclude the uncontrolled release of targo. 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

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

Vapor Recover Approved (Y or N)

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

Conditions of Carriage

Tank Group Vanor Recovery Approved (Y or N)

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

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

VCS Category

The specified cargo's provisional classification for vapor control systems.

Category 1

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

Category 2

(Polymerizes) Polymerization and residue build-up of these cargoes can adversely affect the vessel by fouling safety components 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.

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

Category 5

(High vapor pressure) VCS pressure drop calculations for cargoes with a vapor pressure greater than 14.7 psia at 115 F must take into account increased vapor-air mixture densities and vapor growth rates as compared to Category 1 cargoes. Consult the Marine Safety Center's VCS Guidelines for further information. This requirement is in addition to the requirements of Category 1.

Category 6 Category 7

(High vapor pressure and highly toxic) Must comply with requirements of Categories 1, 3 and 5. (High vapor pressure and polymerizes) Must comply with requirements of Categories 1, 2 and 5

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