

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

Certification Date: 05 Sep 2023 Expiration Date: 05 Sep 2024

Temporary Certificate of Inspection

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

This Temporary Certificate of Inspection is issued under the provision of Title 46 United States Code, Section 399, in lieu of the regular certificate of inspection, and shall be in force only until the receipt on board said vessel of the original certificate of inspection, this certificate in no case to be valid after one year from the date of inspection.

receipt on board said vessel of the	original certificate of insp	ection, this certificate in	no case to be va	and after one year from in	ie date of inspectio	III	
Vessel Name	Official Number	IMO Numb	er	Call Sign	Service		
MMI 3031	1139045				Tank B	arge	
Hailing Port	Hull Material	Horse	oower	Propulsion			
HOUSTON, TX	Steel			None			
UNITED STATES							
Place Built	Delivery Date	Keel Laid Date	Gross Tons	Net Tons	DWT	Length	
ASHLAND CITY, TN	25Apr2003	12Mar2003	R-1619	R-1619		R-297.5	
UNITED STATES	20/10/2000	12111012000	J-	I-		1-0	
ONTED STATES							
Owner HIGMAN BARGE LINES INC 55 WAUGH DR STE 1000 HOUSTON, TX 77007 UNITED STATES		1835 CHAI UNIT	Y INLAND O MARKET NNELVIEW ED STATE	V, TX 77530 ES			
This vessel must be manned with the f 0 Certified Lifeboatmen, 0 Certified Ta	ollowing licensed inkermen, 0 HSC	and unlicensed Type Rating, a	Personne and 0 GMD	I. Included in wi SS Operators.	hich there m	ust be	

0 Oilers 0 Chief Engineers 0 Licensed Mates 0 Masters 0 Chief Mates 0 First Class Pilots 0 First Assistant Engineers 0 Second Assistant Engineers 0 Second Mates 0 Radio Officers 0 Third Assistant Engineers 0 Third Mates 0 Able Seamen 0 Licensed Engineers 0 Ordinary Seamen 0 Master First Class Pilot 0 Qualified Member Engineer 0 Mate First Class Pilots 0 Deckhands

In addition, this vessel may carry 0 Passengers, 0 Other Persons in crew, 0 Persons in addition to crew, and no Others. Total Persons allowed: 0

Route Permitted And Conditions Of Operation:

---Lakes, Bays, and Sounds---

This vessel has been granted a fresh water service examination interval per 46 CFR 31.10-21(a)(2). If this vessel is operated in salt water more than 6 months in any 12 month period, the vessel must be inspected using salt water intervals per 46 CFR 31.10-21(a)(1) and the cognizant OCMI notified in writing as soon as this change in status occurs.

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/Peri	odic/Re-Inspec	ction	This certificate issued by:
Date	Zone	A/P/R	Signature	L. L. WOODMAN, CDR, USCG, By direction
		X		Officer in Charge, Marine Inspection
				Marine Safety Unit Port Arthur
				Inspection Zone



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

Certification Date. 05 Sep 2023 Expiration Date. 05 Sep 2024

Temporary Certificate of Inspection

Lesse Name WM: 3031

---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

No

Hazardous Bulk Solids Authority

Loading Constraints - Structural

Tank Number	Max Cargo ₩eight per Tank (short tons)	Maximum Density (lbs:gal)
1\$	840	13.6
1P	840	13.6
2S	792	13.6
2P	792	13.6
3\$	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
II	3605	9ft 6in	13.6	L.B.S
II	3605	9ft 6in	13.6	R
111	4593	11ft 6in	13.6	L. B. S
III	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 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.

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.



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Vessel Name: MMI 3031

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	1		External Exa	am	
Tank Id	Previous	Last	Next	Previous	Last	Next
1S	24Apr2013	10Aug2018	31Aug2028	-	-	-
1P	24Apr2013	10Aug2018	31Aug2028	-	-	-
2S	24Apr2013	10Aug2018	31Aug2028	-	-	-
2P	24Apr2013	10Aug2018	31Aug2028	-	-	-
3S	24Apr2013	10Aug2018	31Aug2028	-	•	-
3P	24Apr2013	10Aug2018	31Aug2028	-	-	•
			Hydro Test			
Tank Id	Safety Valve	s	Previous	Last	Next	
1S	-		-	-	-	
1P	-		-	-	-	
2S	-		-	-	-	
2P	-		-	-	-	
3S	-		-	-	-	
3P	-		-	-	-	

--- 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

_

B-II

END



Certificate of Inspection

Cargo Authority Attachment

Vessel Name: MMI 3031 Official #: 1139045

Shipyard: Trinity Ashland City

46 CFR 151 Tank (Group Characteris	tics													
Tank Group Information	Cargo identification		Cargo		Tenks		Carg		Enviror	mental	Fire	Special Requir	'ements	T	
Trik Grp Tanks in Group	Density Press. Temp.		Seg Tank	Туре	Vent	Gauge	Pipe Class	Cont	Tanks	Handling Space	Protection Provided	General	Materials of Construction	Elec	Temp
A #1 - #3 P/S	13.6 Atmos. Amb.	11	1ii 2ii	Integral Gravity	PV	Closed	It	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	

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

List of Authorized Cargoes

Cargo Identification						Conditions of Carriage					
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Hufl Type	Tank Group		. VCS Category	Special Requirements in 48 CFR 15		
Authorized Subchapter O Cargoes											
Acetonitrile	ATN	37	0	С	[3)	A	Yes	3	No		
Acrylonitrile	ACN	15 ²	0	С	JI .	A	Yes	4	.50-70(a), .55-1(e)		
Adiponitrile	ADN	37	0	Е	li	Α	Yes	1	No		
Alkyl(C7-C9) nitrates	AKN	34 ²	0	NA	Ш	Α	No	N/A	.50-81, .50-86		
Aminoethylethanolamine	AEE	8	0	E	III	A	Yes	1	.55-1(b)		
Ammonium bisulfite solution (70% or less)	ABX	43 2	0	NA	(II	A	No	N/A	.50-73, .56-1(a), (b), (c)		
Ammonlum hydroxide (28% or less NH3)	AMH	6	0	NA	III	A	No	N/A	.56-1(a), (b), (c), (f), (g)		
Anthracene oil (Coal tar fraction)	AHO	33	0	NA	II.	A	No	N/A	No		
Benzene	BNZ	32	0	С	111	A	Yes	1	.50-60		
Benzene or hydrocarbon modures (having 10% Benzene or more)	ВНВ	32 ²	0	NA	III	A	Yes	1	.50-60		
Benzene or hydrocarbon mixtures (containing Acetylene and 10% Benzene or more)	ВНА	32 ²	0	NA)lii	A	Yes	1	.50-60, .56-1(b), (d), (f), (g)		
Benzene, Toluene, Xylene mixtures (10% Benzene or more)	BTX	32	0	B/C	- III	Α	Yes	1	.50-60		
Butyl acrylate (all isomers)	BAR	14	0	D	III	A	Yes	2	.50-70(a), .50-81(a), (b)		
Butyl methacrylate	BMH	14	0	D	- 68	A	Yes	2	.50-70(a), .50-81(a), (b)		
Butyraldehyde (all isomers)	BAE	19	0	C	III .	A	Yes	1	.55-1(h)		
Camphor oil (light)	·CPO	18	0	D	11	A	No	N/A	No		
Carbon tetrachloride	CBT	36	0	NA	<u>:-</u>	A	No	N/A	No		
Chemical Oil (refined, containing phenolics)	COD	21	0	E	H.	A	No	N/A	.50-73		
Chlorobenzene	CRB	36	0	D	<u> </u>	A	Yes	1	No		
Chloroform	CRF	36	0	Ē	HIL.		Yes	3	No		
Coal tar naphtha solvent	NCT	33	0	<u> </u>		A	Yes	1	.50-73		
Creosote	CCW	21 2	0	Ē	711	A	Yes	1	No		
Cresols (all isomers)	CRS	21	0	E	lii .	A	Yes	1 1	No		
Cresylate spent caustic	CSC	5	0	NA.	101	A	No	N/A	.50-73, .55-1(b)		
Cresylic acid tar	CRX		0	1411	III	A	Yes	1	.55-1(1)		
Crotonaldehyde	CTA	19 ²	0	С]]	A	Yes	4	,55-1(h)		
Crude hydrocarbon feedstock (containing Butyraldehydes and Ethylpropyl acrolein)	CHG		0		IFI	A	No	<u> </u>	No		
Cyclohexanone	CCH	18	0	D	IRE	A	Yes	1	.58-1(a), (b)		
Cyclohexanone, Cyclohexanol mixture	CYX	18 ²	0	E	III	A	Yes	1	.58-1 (b)		
Cyclohexylamine	CHA	7	ō	D	NR NR	A	Yes	1	.56-1(a), (b), (c), (g)		
Cyclopentadiene, Styrene, Benzene mixture	CSB	30	0	D	111	A	Yes		.50-60, .56-1(b)		
so-Decyl acrylate	IAI	14	0	E	111	A	Yes	<u> </u>	.50-70(a), .50-81(a), (b), .55-1(c)		
Dichlorobenzene (all isomers)	DBX	36	0	E	III	A	Yes		.56-1(a), (b)		
,1-Dichloroethane	DCH	36	0	C	 	_^_	Yes		No No		

^{***} This document is only valid when attached to, and referenced by a current, valid Certificate of Inspection. ***

^{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.



Certificate of Inspection

Cargo Authority Attachment

Vessel Name: MMI 3031

Official #: 1139045

Page 2 of 7

Shipyard: Trinity Ashland City

Cargo Identification								Conditions of Carriage						
	OI:		- C			Tent		decovery	Canadal Reguleron and in 40 OCD 454					
Name	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					
2.2'-Dichloraethyl ether	DEE	41	0	D	II	Α	Yes	1	.55-1(f)					
Dichloromethane	DCM	36	0	NA	Ш	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	[II]	Α	No	N/A	.58-1(a), (b), (o), (g)					
2,4-Dichlorophenoxyacetic acid, dimethylamine salt solution (70% or less	DDA		0		III	Α	No	N/A	,65-1(b)					
2,4-Dichlorophenoxyacetic acid, triisopropanolamine salt solution	DTI	43 ²	0	NA	III	Α	No	N/A	.56-1(a), (b), (c), (g)					
1,1-Dichloropropane	DPB	36	0	С	IH	Α	Yes	3	No					
1,2-Dichloropropane	DPP	36	0	С	Ш	Α	Yes	3	No					
1,3-Dichloropropane	DPC	36	0	C	181	Α	Yes	3	No					
1,3-Dichloropropene	DPU	15	0	D	II	Α	Yes	4	No					
Dichloropropene, Dichloropropane mixtures	DMX	15	0	NA	ĮĮ.	Α	Yes	1	No ·					
Diethanolamine	DEA	8	0	E	. (1)	A	Yes	1	.55-1(c)					
Diethylamine	DEN	7	0	C	131	A	Yes	3	.66-1(a)					
Diethylenetriamine	DET	7 2	0	E	III	A	Yes	1	.55-1(e)					
Disobutylamine	DBU	7	0	D		A	Yes	3	.55-1(c)					
Disopropanolamine	DIP	8	0	E	111	A	Yes	1	.55-1(c)					
	DIA	7	0	c	- 11	A	Yes	3	.55-1(c)					
Disopropylamine	DAC	10	0	E	[2]	A	Yes	3	,56-1(b)					
N,N-Dimethylacetamide	DMB	8			[]]	A	Yes	1	.56-1(b), (o)					
Dimethylethanolamine Dimethylethanolamine	DMF	10	0	D	H	A	Yes	1	.55-1(a)					
Dimethylformamide	DNA	7	0	C	lt	A	Yes	3	.55-1(c)					
Di-n-propylamine		7	0					N/A	.56-1(b)					
Dodecyldimethylamine, Tetradecyldimethylamine mixture	DOT			E	01	A	No		.55-1(c)					
Ethanolamine	MEA	8	0	E	IH.	A	Yes	1 0	.50-70(a), .50-81(a), (b)					
Ethyl acrylate	EAC	14		Ç		A	Yes	2	.55-1(b)					
Ethylamine solution (72% or less)	EAN	7 ~	0	_A_	<u>II</u>	A	No	N/A	.55-1(b)					
N-Ethylbutylamine	EBA	. 7	0	<u>D</u>	131	A	Yes	3	,65-1(b)					
N-Ethylcyclohexylamine	ECC	7	0	<u>D</u>		A	Yes	1	No.					
Ethylene cyanohydrin	ETC	20	0	E	III	Α	Yes	1	.55-1(c)					
Ethylenediamine	EDA	7 2	0	D	lil	A	Yes	1	No					
Ethylene dichloride	EDC	36 ²	0	C	I I I	Α .	Yes	1	No					
Ethylene glycol hexyl ether	EGH	40	0	E		A	No	N/A	·No					
Ethylene glycol monoalkyl ethers	EGC	40	0	D/E	<u> </u>	A	Yes	1	No					
Ethylene glycol propyl ether	EGP	40	0	E	<u> </u>	A	Yes	1						
2-Ethylhexyl acrylate	EAI	14	0	E	111	A	Yes	2	.50-70(a), .50-81(a), (b)					
Ethyl methacrylate	ETM	14	0	D/E	111	A	Yes	2	.50-70(a)					
2-Ethyl-3-propylacrolein	EPA	19 ²	0	_ E	111	A	Yes	1	No					
Formaldehyde solution (37% to 50%)	FMS	19 ²	0	D/E	1	A	Yes	1	.55-1(h)					
Furfural	FFA	19	0	E		A	Yes	1	,55-1(h)					
Glutaraldehyde solution (50% or less)	GTA		0	NA	iii	Α	No	N/A	No .					
Hexamethylenediamine solution	HMC	7	0	E	III	A	Yes	1	.55-1(c)					
Hexamethyleneimine	HMI	7	0	С	11	A	Yes	1	.56-1(b), (c)					
Hydrocarbon 5-9	HFN		0		91	Α	Yes	1	.50-70(a), .50-81(a), (b)					
Isoprene	IPR	30	0	Α	111	A	No	N/A	.50-70(a), .50-81(a), (b)					
Isoprene, Pentadiene mixture	IPN		0		III	Α	No	N/A	.50-70(a), .55-1(a)					
Kraft pulping liquors (free alkali content 3% or more)(including: Black, Green, or White liquor)	KPL	5	0	NA	111	A	No	N/A	.50-73, .56-1(a), (c), (g)					
Mesityl oxide	MSO	18 ²	0	D	Ш	Α	Yes	1	No					
Methyl acrylate	MAM	14	0	С	lli_	Α	Yes	2	.50-70(a), .50-81(a), (b)					
Methylcyclopentadiene dimer	MCK	30	0	С	III	Α	Yes	1	No					



Certificate of Inspection

Cargo Authority Attachment

Vessel Name: MMI 3031 Official #: 1139045

Page 3 of 7

Shipyard: Trinity Ashland City

Cargo Identification	Conditions of Carriage								
							Vapor R	Recovery	I
Name	Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	App'd (Y or N)	VCS Category	Special Requirements In 46 CFR General and Mat'ls of Construction
Methyl diethanolamine	MDE	8	0	Е	DI	Α	Yes	1	.58-1(b), (c)
2-Methyl-5-ethylpyridine	MEP	9	0	E	III	Α	Yes	1	.55-1(e)
Methyl methacrylate	, MMM	14	0	С	H	A	Yes	2	.50-70(a), .50-61(a), (b)
2-Methylpyridine	MPR	9	0	D	III	Α	Yes	3	.55-1(c)
alpha-Methylstyrene	MSR	30	0	D	III	Α	Yes	2	.50-70(a), .50-81(a), (b)
Morpholine	MPL	7 2	0	D	ÐI	A	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)II	Α	No	N/A	.50-70(a), .50-81
Perchloroethylene	PER	36	0	NA	HI	Α	No	N/A	No
Polyethylene polyamines	PEB	7 ²	0	E	III	Α	Yes	1	.65-1(a)
so-Propanolamine	MPA	8	0	E	111	A	Yes	1	.55-1(c)
Propanolamine (iso-, n-)	PAX	8	0	E	III	A	Yes	1	.56-1(b), (c)
so-Propylamine	IPP	7	0	A	11	A	No	N/A	.55-1(c)
Pyridine	PRD	9	0	С	111	A	Yes	1	.55-1(e)
Sodium aluminate solution (45% or less)	SAU	5	0	NA	III	A	No	N/A	.50-73, .56-1(a), (b), (c)
Sodium chlorate solution (50% or less)	SDD	0 1,2	0	NA	III	A	No	N/A	.50-73
Sodium hypochlorite solution (20% or less)	SHQ	5	0	NA	10	A	No	N/A	.50-73, .58-1(a), (b)
odium sulfide, hydrosulfide solution (H2S 15 ppm or less)	SSH	D 1,2	0	NA	111	A	Yes	1	.50-73, .55-1(b)
odium sulfide, hydrosulfide solution (H2S greater than 15 ppm but less nan 200 ppm)	SSI	0 1,2	0	NA	ar	A	No	N/A	.50-73, . 55 -1(b)
odium sulfide, hydrosulfide solution (H2S greater than 200 ppm)	SSJ	0 1,2	0	NA		A	No	N/A	.50-73, .55-1(b)
Styrene (crude)	STX		0	D	IJI	Α	Yes	2	No
Styrene monomer	STY	30	0	D	III	A	Yes	2	.50-70(a), .50-81(a), (b)
1,2,2-Tetrachloroethane	TEC	36	0	NA	113	A	No	N/A	No
etraethylenepentamine	TTP	7	0	E	III .	A	Yes	1	.55-1(c)
etrahydrofuran	THE	41	0	C		A	Yes	1	.50-70(b)
oluenediamine	TDA	9	0	E	Ш	A	No	N/A	.50-73, .66-1(a), (b), (c), (g)
,2,4-Trichlorobenzene	TCB	36	0	E	111	A	Yes	1	No
.1,2-Trichloroethane	TCM	36	0	NA	lli	A	Yes	1	.50-73, .56-1(a)
richloroethylene	TCL	36 ²	0	NA	201	A	Yes	1	No
2,3-Trichloropropane	TCN	36	0	E	II	A	Yes	3	.50-73, .56-1(a)
riethanolamine	TEA	8 ²	0	E	III	A	Yes	1	.55-1(b)
riethylamine	TEN	7	0	С	ll l	A	Yes	3	.55-1(e)
riethylenetetramine	TET	7 2	0	E	IN IN	A	Yes		.55-1(b)
riphenylborane (10% or less), caustic soda solution	TPB	5	0	NA	III	A	No		.56-1(a), (b), (c)
risodium phosphate solution	TSP	5	0	NA	111	A	No	1071	.50-73, .56-1(a), (e).
rea, Ammonium nitrate solution (containing more than 2% NH3)	UAS	6	0	NA		A	No	N/A	.58-1(b)
anillin black liquor (free alkali content, 3% or more).	VBL	5	0	NA	 	A	No		.50-73, .56-1(a), (c), (g)
inyl acetate	VAM	13	0	C	III	Ā	Yes		.50-70(a), .50-81(a), (b)
inyl neodecanate	VND	13	0	E	Ж	A	No :		.50-70(a), .50-81(a), (b)
inyltoluene	VNT	13	0	D	IEI	Â	Yes	7 100 1	.50-70(a), .50-81, .58-1(n), (b), (c), (g)
bchapter D Cargoes Authorized for Vapor Control					161		163		(-1, -1, -1, -1, -1, -1, -1, -1, -1, -1,
Detone	ACT	18 ²	D	C_		Α	Yes	1	
cetophenone	ACP	18	D	Ε		A	Yes	1	
cohol(C12-C16) poly(1-6)ethoxylates	APU	20	D	E		Α	Yes	1	
cohol(C6-C17)(secondary) poly(7-12)ethoxylates	AEB	20	D	Е		Α	Yes	1	
nyl acetate (all isomers)	AEC	34	D	D		Α	Yes	1	
myl alcohol (iso-, n-, sec-, primary)	AAI	20	D	D		Α	Yes	1	



Official #: 1139045

Serial #: C1-0305115

Generated: 15-May-03

Certificate of Inspection

Page 4 of 7

Cargo Authority Attachment Vessel Name: MMI 3031

Shipyard: Trinity Ashland City

Cargo Identification				,		Conditions of Carriage					
	Chem	Compat	Sub		Hull	Tank	Vapor R App'd	VCS	Special Requirements in 46 CFR 15		
Name	Code	Group No	Chapter	Grade	Туре	Group	(Y or N)	Category	General and Mat'ls of Construction		
Benzyl alcohol	BAL	21	D	E		A	Yes	1			
Brake fluid base mixtures (containing Poly(2-8)alkylene(C2-C3) glycols, Polyalkylene(C2-C10) glycol monoalkyl(C1-C4) ethers, and their borate esters)	BFX	20	D	E		A	Yes	1			
Butyl acetate (all isomers)	BAX	34	D	D		Α	Yes	1			
Butyl alcohol (iso-)	IAL	20 ²	D	D		Α	Yes	1			
Butyl alcohol (n-)	BAN		D	D		Α	Yes	1.			
Butyl alcohol (sec-)	BAS		D	С		Α	Yes	1			
Butyl alcohol (tert-)	BAT		D	С		Α	Yes	1			
Butyl benzyl phthalate	BPH	34	D	Е		Α	Yes	1			
Butyl toluene	BUE	32	D	D		Α	Yes	1	-		
Caprolactam solutions	CLS	22	D	Е		Α	Yes	1			
Cyclohexane	CHX	31	D	С		Α	Yes	1	· · · · · · · · · · · · · · · · · · ·		
Cyclohexanol	CHN	20	D	E		Α	Yes	1			
1,3-Cyclopentadiene dimer (molten)	CPD	30	D	D/E		Α	Yes	2			
p-Cymene	CMP	32	D	D		A	Yes	1			
so-Decaldehyde	IDA	19	D	E		A	Yes	1			
-Decaldehyde	DAL	19	D	E		A	Yes	1			
Decene	DCE	30	D	D		A	Yes	1			
	DAX	20 ²	D	E		. A	Yes	1			
Decyl alcohol (all isomers)	DBZ	32	D	E		A	Yes	1			
n-Decylbenzene, see Alkyl(C9+)benzenes Diacetone alcohol	DAA	20 ²	D	E		A	Yes	1	·		
		34	D	E				1			
ortho-Dibutyl phthalate	DPA DEB		D	D		A	Yes Yes	1			
Diethylbenzene		32 40 ²	D	E				1			
Diethylene glycol	DEG			C		- A	Yes		*		
Diisobutylene	DBL	30	D			A	Yes	1	· · · · · · · · · · · · · · · · · · ·		
Disobutyl ketone	DIK	18	D	D		A	Yes	1			
Diisopropylbenzene (all isomers)	DIX	32	<u>D</u>	E		A	Yes	1			
Jimetnyi prithalate	DTL	34	D	E		A	Yes	1			
Dioctyl phthalate	DOP	34	D	E		A	Yes	1			
Dipentene	DPN	30	D	D		A	Yes	11			
Diphenyl	DIL	32	D	D/E		A	Yes	1			
Diphenyl, Diphenyl ether mixtures	DDO	33	D	E		A	Yes	1			
Diphenyl ether	DPE	41	D	{E}		Α.	Yes	1			
Dipropylene glycol	DPG	40	D	<u> </u>		A	Yes	11			
Distillates: Flashed feed stocks	DFF	33	D	Е		A	Yes	1			
Distillates: Straight run	DSR	33	D	Е		Α	Yes	1			
Dodecene (all isomers)	DOZ	30	D	D		A	Yes	1			
Dodecylbenzene, see Alkyl(C9+)benzenes	DDB	32	D	E		Α	Yes	1			
2-Ethoxyethyl acetate	EEA	34	D	D		Α	Yes	1			
Ethoxy triglycol (crude)	ETG	40	D	E		A	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			



Certificate of Inspection

Cargo Authority Attachment

Vessel Name: MMI 3031 Official #: 1139045

Page 5 of 7

Shipyard: Trinity Ashland City

Cargo Identification	Conditions of Carriage								
- Cargo identification	1		1		_	-			ons or 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
Ethylene glycol	EGL	20 ²	D	Е		Α	Yes	1	
Ethylene glycol butyl ether acetate	EMA	34	D	E		A	Yes	1.	
Ethylene glycol diacetate	EGY	34	D	E		A	Yes	1	
Ethylene glycol phenyl ether	EPE	40	D	E		A	Yes	1	
Ethyl-3-ethoxypropionate	EEP	34	D	E		A	Yes	1	
2-Ethylhexanol	EHX	20	D	Е		Α	Yes	1	
Ethyl propionate	EPR	34	D	C		Α	Yes	1	
Ethyl toluene	ETE	32	D	Е		A	Yes	1	-
Formamide	FAM	10	D	E		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	Ð	С		Α	Yes	1	
Gasolines: Aviation (containing not over 4.86 grams of lead per gallon)	GAV	33	D	С		Α	Yes	1	
Gasolines: Casinghead (natural)	GCS	33	D	A/C		A	Yes	1	
Gasolines: Polymer	GPL	33	D	A/C		Α	Yes	1	
Gasolines: Straight run	GSR	33	D	A/C		Α	Yes	1	
Glycerine	GCR	20 ²	D	Е		Α	Yes	1	· -
Heptane (all isomers), see Alkanes (C6-C9) (all Isomers)	HMX	31	D	С		Α	Yes	1	
Heptanoic acid	HEP	4	D	E		Α	Yes	1	
Heptanol (all isomers)	HTX	20	D	D/E		Α	Yes	1	
Heptene (all isomers)	HPX	30	D	С		Α	Yes	2	
Heptyl acetate	HPE	34	D	D		Α	Yes	1	
Hexane (all isomers), see Alkanes (C6-C9)	HXS	31 ²	Ð	B/C		Α	Yes	1	
Hexanoic acid	HXO	4	D	Е		Α	Yes	1	
Hexanol	HXN	20	D	D		Α	Yes	1	
Hexene (all Isomers)	HEX	30	D	С		Α	Yes	2	
Hexylene glycol	HXG	20	D	Ε		Α	Yes	1	
Isophorone	IPH	18 ²	D	Е		Α-	Yes	1	
Jet fuel: JP-4	JPF	33	D	E		Α	Yes	1	
Jet fuel: JP-5 (kerosene, heavy)	JPV	33	D	D		Α	Yes	1	
Kerosene	KRS	33	D	D		_ A	Yes	1	
Methyl acetate	MTT	34	D	D		A	Yes	_1	
Methyl alcohol	MAL	20 ²	D	С		Α	Yes	1	
Methylamyl acetate	MAC	34	D	D		Α	Yes	1	
Methylamyl alcohol	MAA	20	D	D		A	Yes	1	
Methyl tert-butyl ether	MBE	41 ²	D	С		Α	Yes	1	
Methyl butyl ketone	MBK	18	D	С		Α	Yes	1	
Methyl butyrate	MBU	34	D	C		Α	Yes	1	
Methyl ethyl ketone	MEK	18 ²	D	С		Α	Yes	1	
Methyl heptyl ketone	MHK	18	D	D		A	Yes	1	
Methyl isobutyl ketone	MIK	18 ²	D	С		Α	Yes	1	
Methyl naphthalena (molten)	MNA	32	D	E		Α	Yes	1	
Mineral spirits	MNS	33	D	D		Α	Yes	1	
Myrcene	MRE	30	D	D		Α	Yes	1	
Naphtha: Heavy	NAG	33	D	#		A	Yes	1	
Naphtha: Petroleum	PTN	33	D	#		A	Yes	1	
Naphtha: Solvent	NSV	33	D	D_		A	Yes	1	



Certificate of Inspection

Cargo Authority Attachment

Vessel Name: MMI 3031 Official #: 1139045

Page 6 of 7

Shipyard: Trinity Ashland City

Cargo Identification							Co	onditio	ns of Carriage
	1		1				1	acovery	
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		A	Yes	1	
Nonane (all isomers), see Alkanes (C6-C9)	NAX	31	D	D	~	A	Yes	1	•
Nonene (all isomers)	NON	30	D			A	Yes	2	
Nonvi alcohol (all isomers)	NNS	20 ²		E		A	Yes	1	
Nonyl phenol	NNP	21	D	E		A	Yes	1	
Nonyl phenol poly(4+)ethoxylates	NPE	40	D	E		A	Yes	1	
Octane (all isomers), see Alkanes (C6-C9)	OAX	31	D	С		'A	Yes	1	
Octanoic acid (all isomers)	OAY	4	D	E		A	Yes	1	
	OCX	20 ²	D	E		^A	Yes	1	
Octanol (all isomers) Octane (all isomers)	OTX	30	D	· C		A	Yes	2	
Oil, fuel: No. 2	OTW		D	D/E		A	Yes	1	
Oil, fuel: No. 4	OFR	33	D	D/E		A	Yes	1	
Oil, fuel; No. 5	OFV	33	D	D/E		A	Yes	1	
Oil, fuel: No. 6	OSX	33	D	Е		Α	Yes	1	
Oil, misc: Crude	OIL	33	D	C/D		Α	Yes	1	
Oil, misc: Diesel	ODS	33	D	D/E		Α	Yes	1	
Oil, misc: Lubricating	OLB	33	D	Е		Α_	Yes	1	
Oil, misc: Turbine	ОТВ	33	D	E		A	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	E		Α	Yes	11	
Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether acetate	PAF	34	D	E		Α	Yes	1.	
Polybutene	PLB	30	D	E		A	Yes	1	
Polypropylene glycol	PGC	40	D	E		Α	Yes	1	
iso-Propyl acetate	IAC	34	D	C		A	Yes	1	
n-Propyl acetate	PAT	34	D	С		Α	Yes	1	
iso-Propyl aicohol	IPA	20 ²	D	C		Α	Yes	1	
n-Propyl alcohol	PAL	20 ²	D	C		Α	Yes	1	
Propylbenzene (all isomers)	PBY	32	D	D		Α	Yes	1	
iso-Propylcyclohexane	IPX	31	D	D		Α	Yes	1	
Propylene glycol	PPG	20 ²	Đ	Е		Α	Yes	1	
Propylene glycol methyl ether acetate	PGN	34	D	D		A	Yes	1	
Propylene tetramer	PTT	30	D	D		Α	Yes	1	
Sulfolane	SFL	39	D	Е		Α	Yes	1	
Tetraethylene glycol	TTG	40	D	E		Α	Yes	1	
Tetrahydronaphthalene	THN	32	D	E		Α	Yes	1	· · ·
Toluene	TQL	32	D	С		Α	Yes	1	
Tricresyl phosphate (less than 1% of the ortho isomer)	TCP	34	D	E		Α	Yes	1	
Triethylbenzene	TEB	32	D	E		A	Yes	1	
Triethylene glycol	TEG	40	D	E		A	Yes	1	
Triethyl phosphate	TPS	34	D	E		A	Yes	1	
Trimethylbenzene (all isomers)	TRE	32	D	{D}		A	Yes	1	
Trixylenyl phosphate	TRP	34	D	E		A	Yes	1	
Undecene	UDÇ	30	D	D/E		A	Yes	1	
1-Undecyl alcohol	UND	20	D	E		A	Yes	1	
	XLX	32	D	D				1	
Xylenes (ortho-, meta-, para-)		92	U	U		A	Yes	-1	





Certificate of Inspection

Cargo Authority Attachment

Official #: 1139045

Shipyard: Trinity Ashland

Hull #: 4443

Explanation of terms & symbols used in the Table:

Cargo Identification

Vessel Name: MMI 3031

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 48 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 Note 2

Because of the very high reactivity or unusual conditions of carriage of potential compatibility problems, this product is not assigned to a specific group in the Compatibility Chart. For additional compatibility information, contact Commandant (G-MSO-3), U.S. Coast Guard, 2100 Second Street, SW, Washington, DC 20593-0001. Telephone (202) 267-

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 48 CFR Table 30.25-1.

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

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

Grade

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

A, B, C D, E Note 4 Flammable liquid carones, as defined in 48 CFR 30-10 22 Combustible liquid cargoss, 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/vepor pressure data for such assignments are presently not available.

NA Hull Туре

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

Designed to carry products which require the maximum preventive measures to preclude the uncontrolled release of the cargo. See 46 CFR 151.10-1(b)(1). Designed to carry products which require significant preventive measures to preclude the uncontrolled release of cargo. See 46 CFR 151.10-1(b)(3). Designed to carry products of sufficeint hazard to require a moderate degree of control. See 46 CFR 151.10-1(b)(4).

Not applicable to barges certificated under Subchapter D.

Conditions of Carriage

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

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

Conditions of Carriage

Tank Group Vapor Recovery Approved (Y or N)

The vessel's tank group (as defined under the "46 CFR Tank Group Characteristics" (Isted 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.

requirement is in addition to the requirements of Category 1.

Category 1

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

Category 2

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

Category 3

(Highly toxic) VCSs for these toxic cargoes cannot use a spill valve or rupture disk as the primary means to meet the overfill protection requirement of 46 CFR 39.20-9. This requirement is in addition to the requirements of Category 1.

Category 4

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

Category 5

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

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.

попе

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