

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

19 Jun 2020 Certification Date: 19 Jun 2025 **Expiration Date:**

Service

Çall Sign

Certificate of Inspection

d. regulation V/14, for a SAFE MANNING DOCUMENT.

Official Number

IMO Number

Vessel Name	Official Num	ber	IMO Numb	er .	Call Sign	Senice	
MMI 3049	116765	6				Tank Ba	arge
			-				
Hailing Port	Hui	I Material	Horse	power*	Propulsion		
HOUSTON, TX	St	eel					
	0.	.001					
UNITED STATES							
Place Built	Deliver	y Dete	Keel Laid Date	Gross Tons	Net Tons	DWT	Length
MADISONVILLE, LA	404.	· 200E	2214-2005	R-1619	R-1619		R-297.5
	19A)	pr2005	23Mar2005	•	H		ю
UNITED STATES							
0.75					<u></u>		
Owner			Operato				
HIGMAN BARGE LINES I			•	Inland Mari	-		
55 WAUGH DR STE 1000 HOUSTON, TX 77007	1			0 Market St nelview, TX			
UNITED STATES				ED STATE			
9 25 020			-				
This vessel must be mann	ed with the following F	icensed :	and unlicensed	l Personnel	. Included in w	hich there mu	ıst be
0 Certified Lifeboatmen, 0	Certified Tankermen,	0 HSC	Type Rating, a	and 0 GMDS	SS Operators.	99	
0 Masters	0 Licensed Mates	0 Chief 6	Engineers	0.0	ilers		
0 Chief Mates	0 First Class Pilots	0 First A	ssistant Engineer	8			
0 Second Mates	0 Radio Officers	0 Secon	d Assistant Engin	eers			
0 Third Mates	0 Able Seamen	0 Third /	Assistant Enginee	rs			
0 Master First Class Pilot	0 Ordinary Seamen	0 Licens	ed Engineers				
0 Mate First Class Pilots	0 Deckhands		ed Member Engin				
In addition, this vessel may Persons allowed: 0	/ carry 0 Passengers,	0 Other	Persons in cre	w, 0 Person	ns in addition to	crew, and n	Others. Total
Route Permitted And Co	onditions Of Operation	on:					
Lakes, Bays, and	W 13 14 14 15 15 15 15 15 15 15 15 15 15 15 15 15		Coastwise)			
LIMITED COASTWISE SERVI VISIBILITY, NOT MORE TH	CE: IN SEAS OF LESS AN TWELVE (12) MILI	THAN TES FROM	HREE (03) FE Shore betwee	ET, WIND L N ST. MARK	ESS THAN TWEN S AND CARRABE	TY (20) KNO	IS AND CLEAR A.
THIS VESSEL HAS BEEN GR	ANTED A FRESH WATE	R SERVIC	E EXAMINATIO	N INTERVAL	IN ACCORDANC	E WITH 46 C	FR TABLE 31.10-
21(b); IF THIS VESSEL I	S OPERATED IN SALT	WATER M	ORE THAN SIX	(6) MONTH	S IN ANY TWEL	VE (12) MON	TH PERIOD, THE
VESSEL MUST BE INSPECTE NOTIFIED IN WRITING AS	SOON AS THIS CHANGE	INIERVA E IN STA	TUS OCCURS.	K IMPLE 31	.10-21(a) AND	THE COGNIZ	ANT OCMI
THIS TANK BARGE IS PART	ICIPATING IN THE E	ghth-ni	NTH COAST GU	ARD DISTRI	CT'S TANK BAR	GE STREAMLI	NED INSPECTION
SEE NEXT PAGE FO	R ADDITIONAL CE	RTIFIC	ATE INFORM	ATION			
With this Inspection for Cer							
Inspection, Houma, Louisia		el, in all re	espects, is in o	conformity v	ith the applical	ole vessel ins	pection laws and
the rules and regulations pr	<u>escribed thereunder,</u> eriodic/Re-Inspection		-		S. Santa alabara		
		N:		iis ceruiiost	e issued by:	6	
Date Zone		Signatur		Mr. M.		DR USCG,	By Direction
3/3//2021 New Orlean	2 Pener	Tirm	on √√∞A	icer in Charge, Ma		1	
6-6-2012 Both Row 6(13/23 Hailson House	3- 1-6/1/24	u Mily	i -	- No	Houma	, Louisiana	
7-17-24 JAN CLUES	- A /	٠	er m	paction Zone			



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Vessel Name: MMI 3049

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 THE OCMI HOUSTON-GALVESTON,

---Hull Exams---

Exam Type

Next Exam

Last Exam

Prior Exam

DryDock

31May2025

18May2015

19Apr2005

Internal Structure

31May2025

12Jun2020

18May2015

--- 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

28724

Barrels

Yes

No

No

Hazardous Bulk Solids Authority

Loading Constraints - Structural

Tank Location Description

Max Cargo Weight per Tank (short tons)

Maximum Density (lbs/gal)

1 P/S

834

13.6

2 P/S

786

13.6

3 P/S

756

13.6

Loading Constraints - Stability

Hull Type

Maximum Load (short tons)

Maximum Draft

Max Density

Route Description

Ш

3537

4526

(ft/in) 9ft 6in (lbs/gal) 13.6

Rivers, Lakes, Bays and Sounds

11ft 6in

13.6

Rivers, Lakes, Bays and Sounds

Conditions Of Carriage

ONLY THOSE CARGOES NAMED IN THE VESSEL'S CARGO AUTHORITY ATTACHMENT, SERIAL #C1-0504010 DATED 29 MAR 2005, MAY BE CARRIED AND THEN ONLY IN THE TANKS INDICATED.

PER 46 CFR 150.130, THE PERSON IN CHARGE OF THE BARGE 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 COMPATABILITY GROUP NUMBERS FROM THE "COMPAT GRP" COLUMN LISTED ABOVE IN THE "SPECIFIED HAZARDOUS CARGO AUTHORITY" SECTION.

WHEN THE VESSEL IS CARRYING CARGOES CONTAINING GREATER THAN 0.5% BENZENE, THE PERSON IN CHARGE IS RESPONSIBLE FOR ENSURING THE PROVISIONS OF 46 U.S. CODE OF FEDERAL REGUALTIONS PART 197, SUBPART C ARE APPLIED.

TANDEM LOADING

IN ACCORDANCE WITH 46 CFR PART 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 VESSEL.

VAPOR CONTROL AUTHORIZATION

IN ACCORDANCE WITH 46 CFR PART 39, EXCLUDING PART 39.4000, THIS VESSEL'S VAPOR CONTROL SYSTEM HAS BEEN INSPECTED TO THE PLANS APPROVED BY MARINE SAFETY CENTER LETTERS SERIAL #C1-0504010



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ANNOTATED WITH "YES" IN THE CAA'S VCS COLUMN.

Stability and Trim

THE MAXIMUM DESIGN DENSITY OF CARGO WHICH MAY BE FILLED TO THE TANK TOP IS 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 BELOW.

CARGO TANKS MUST BE LOADED UNIFORMLY WHENEVER A 46 CFR SUBCHAPTER "O" CARGO IS CARRIED. FOR TRIM PURPOSES, THE WEIGHT OF CARGO IN EACH TANK MAY EXCEED THE UNIFORMLY LOADED TANK CARGO WEIGHT BY AT MOST 5 PERCENT.

--- Inspection Status ---

Cargo Tanks

	Internal Exam			External Exam	External Exam					
Tank Id	Previous	Last	Next	Previous	Last	Next				
1 P/S	19Apr2005	18May2015	18May2025	-	-	-				
2 P/S	19Apr2005	18May2015	18May2025	-	-	-				
3 P/S	19Apr2005	18May2015	18May2025	-	-	-				
			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

END

40-B



Generated: 29-Mar-05

Certificate of Inspection

Cargo Authority Attachment

Vessel Name: MMI 3049
Official #: 1167656

Shipyard: Trinity Madisonville

Serial #: C1-0504010

Hull #: 2139-2

46 CFR 151 Tank Group Characteristics

Tank Group Information		Cargo Identification				Cargo	Tanks		Cargo Transfer		Environmental Control		Fire	Special Requirements				
Tnk Grp	Tanks in Group	Density	Press.	Temp.	Hull	Seg Tank		Vent	Gauge	Pipe Class	Cont	Tanks	Handling Space	Protection Provided	General	Materials of Construction	Haz p	Tem
A	#1 - #3	13.6	Atmos.	Amb.	11	1ii 2ii	Integral Gravity	PV	Closed	II	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

s. 1. Under Environmental Control, Tarks, 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 Identification	n					Conditions of Carriage						
					125-4		Vapor R	ecovery	The state of the s			
Name	Chem	Compat Group	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			
Authorized Subchapter O Cargoes				b	i ji	7	Yel		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
Acetonitrile	ATN	37	0	С	111	Α	Yes	3	No			
Acrylonitrile	ACN	15 ²	0	С	- 11	Α	Yes	4	.50-70(a), .55-1(e)			
Adiponitrile	ADN	37	0	E	- 11	A	Yes	1	No			
Alkyl(C7-C9) nitrates	AKN	34 2	0	NA	111	Α	No	N/A	.50-81, .50-86			
Aminoethylethanolamine	AEE	8	0	E	111	A	Yes	1	.55-1(b)			
Ammonium bisulfite solution (70% or less)	ABX	43 2	0	NA	111	Α	No	N/A	.50-73, .56-1(a), (b), (c)			
Ammonium hydroxide (28% or less NH3)	AMH	6	0	NA	- 111	Α	No	N/A	.56-1(a), (b), (c), (f), (g)			
Anthracene oil (Coal tar fraction)	AHC	33	0	NA	- 11	Α	No	N/A	No			
Benzene	BNZ	32	0	С	III	Α	Yes	1	.50-60			
Benzene or hydrocarbon mixtures (having 10% Benzene or more)	внв	32 ²	0	С		Α	Yes	1	.50-60			
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)			
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	111	Α	Yes	2,	.50-70(a), .50-81(a), (b)			
Butyl methacrylate	ВМН	14	0	D	- 111	Α	Yes	2	.50-70(a), .50-81(a), (b)			
Butyraldehyde (all isomers)	BAE	19	0	С	- 111	Α	Yes	1	.55-1(h)			
Camphor oil (light)	CPO	18	0	D	11	Α	No	N/A	No			
Carbon tetrachloride	CBT	36	0	NA	111	Α	No	N/A	No			
Chemical Oil (refined, containing phenolics)	COD	21	0	E	- 11	Α	No	N/A	.50-73			
Chlorobenzene	CRB	36	0	D	III	Α	Yes	1	No			
Chloroform	CRF	36	0	E	111	Α	Yes	3	No			
Coal tar naphtha solvent	NCT	33	0	D	III	Α	Yes	1	.50-73			
Creosote	CCV	V 21 ²	0	E	III	Α	Yes	1	No			
Cresols (all isomers)	CRS	21	0	Е	111	Α	Yes	1	No			
Cresylate spent caustic	CSC	5	0	NA	111	Α	No	N/A	.50-73, .55-1(b)			
Cresylic acid tar	CRX		0	E	III	Α	Yes	1	.55-1(f)			
Crotonaldehyde	CTA	19 ²	0	С	- 11	Α	Yes	4	.55-1(h)			
Crude hydrocarbon feedstock (containing Butyraldehydes and Ethy acrolein)	Ipropyl CHG		0	С	111	Α	No	N/A	No			
Cyclohexanone	CCH	18	0	D	111	Α	Yes	1	.56-1(a), (b)			
Cyclohexanone, Cyclohexanol mixture	CYX	18 2	0	E	111	Α	Yes	1	.56-1 (b)			
Cyclohexylamine	CHA	7	0	D	111	Α	Yes	1	.56-1(a), (b), (c), (g)			
Cyclopentadiene, Styrene, Benzene mixture	CSB	30	0	D	111	Α	Yes	1	.50-60, .56-1(b)			
so-Decyl acrylate	IAI	14	0	E	111	Α	Yes	2	.50-70(a), .50-81(a), (b), .55-1(c)			
Dichlorobenzene (all isomers)	DBX	36	0	Е	111	Α	Yes	3	.56-1(a), (b)			
1,1-Dichloroethane	DCH	36	0	С	III	Α	Yes	1	No			
2,2'-Dichloroethyl ether	DEE	41	0	D	- 11	Α	Yes	1	.55-1(f)			
Dichloromethane	DCN	1 36	0	NA	111	Α	No	N/A	No			
2,4-Dichlorophenoxyacetic acid, diethanolamine salt solution	DDE	43	0	E	III	Α	No	N/A	.56-1(a), (b), (c), (g)			



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Shipyard: Trinity Madisonville

Name Chem Code Compat Group Sub Chapter Grade 2,4-Dichlorophenoxyacetic acid, dimethylamine salt solution DAD 0 1.2	Hull Type	Tank Group	Vapor Re App'd (Y or N)	ecovery VCS	
Name Code Group Chapter Grade 2,4-Dichlorophenoxyacetic acid, dimethylamine salt solution DAD 0 1.2	Туре			VICE	
2,4-Dichlorophenoxyacetic acid, triisopropanolamine salt solution DTI 43 ° 0 E 1,1-Dichloropropane DPB 36 O C 1,2-Dichloropropane DPP 36 O C 1,3-Dichloropropane DPC 36 O C 1,3-Dichloropropene DPU 15 O D Dichloropropene, Dichloropropane mixtures DMX 15 O C Diethanolamine DEA 8 O E Diethylamine DEN 7 O C Diethylenetriamine DET 7 ° O E				Category	Special Requirements in 46 CFR 151 General and Mat'ls of Construction
1,1-Dichloropropane DPB 36 O C 1,2-Dichloropropane DPP 36 O C 1,3-Dichloropropane DPC 36 O C 1,3-Dichloropropene DPU 15 O D Dichloropropene, Dichloropropane mixtures DMX 15 O C Diethanolamine DEA 8 O E Diethylamine DEN 7 O C Diethylenetriamine DET 7 2 O E		Α	No	N/A	.56-1(a), (b), (c), (g)
1,1-Dichloropropane DPB 36 O C 1,2-Dichloropropane DPP 36 O C 1,3-Dichloropropane DPC 36 O C 1,3-Dichloropropene DPU 15 O D Dichloropropene, Dichloropropane mixtures DMX 15 O C Diethanolamine DEA 8 O E Diethylamine DEN 7 O C Diethylenetriamine DET 7 2 O E	111	A	No	N/A	.56-1(a), (b), (c), (g)
1,2-Dichloropropane DPP 36 O C 1,3-Dichloropropane DPC 36 O C 1,3-Dichloropropene DPU 15 O D Dichloropropene, Dichloropropane mixtures DMX 15 O C Diethanolamine DEA 8 O E Diethylamine DEN 7 O C Diethylenetriamine DET 7 O E	III	Α	Yes	3	No
1,3-Dichloropropane DPC 36 O C 1,3-Dichloropropene DPU 15 O D Dichloropropene, Dichloropropane mixtures DMX 15 O C Diethanolamine DEA 8 O E Diethylamine DEN 7 O C Diethylenetriamine DET 7 O E	III	- A	Yes	3	No
1,3-Dichloropropene DPU 15 O D Dichloropropene, Dichloropropane mixtures DMX 15 O C Diethanolamine DEA 8 O E Diethylamine DEN 7 O C Diethylenetriamine DET 7 O E	111	Α	Yes	3	No
Dichloropropene, Dichloropropane mixtures DMX 15 O C Diethanolamine DEA 8 O E Diethylamine DEN 7 O C Diethylenetriamine DET 7 O E	11	Α	Yes	4	No
Diethanolamine DEA 8 O E Diethylamine DEN 7 O C Diethylenetriamine DET 7 2 0 E E	- 11	Α	Yes	1	No
DiethylamineDEN7OCDiethylenetriamineDET7 2 0 E	III	Α	Yes	1	.55-1(c)
Steat from the state of the sta	111	Α	Yes	3	.55-1(c)
	111	Α	Yes	1	.55-1(c)
Discour, idining	Ш	Α	Yes	3	.55-1(c)
Diisopropanolamine DIP 8 O E	111	* A	Yes	1	.55-1(c)
Diisopropylamine DIA 7 O C	II	Α	Yes	3	.55-1(c)
N,N-Dimethylacetamide DAC 10 O E	.111	Α	Yes	3	.56-1(b)
Dimethylethanolamine DMB 8 O D	111.	Α	Yes	1	.56-1(b), (c)
Dimethylformamide DMF 10 O D	111	Α	Yes	1	.55-1(e)
Di-n-propylamine DNA 7 O C	- 11	Α	Yes	3	.55-1(c)
Dodecyldimethylamine, Tetradecyldimethylamine mixture DOT 7 O E	111	Α	No	N/A	.56-1(b)
Ethanolamine MEA 8 O E	111	Α	Yes	1	.55-1(c)
Ethyl acrylate EAC 14 O C	111	Α	Yes	2	.50-70(a), .50-81(a), (b)
Ethylamine solution (72% or less) EAN 7 O A	11	Α	No	N/A	.55-1(b)
N-Ethylbutylamine EBA 7 O D	111	A	Yes	3	.55-1(b)
N-Ethylcyclohexylamine ECC 7 O D	Ш	Α	Yes	1	55-1(b)
Ethylene cyanohydrin ETC 20 O E	111	Α	Yes	1	No
Ethylenediamine EDA 7 2 O D	III	Α	Yes	1	.55-1(c)
Ethylene dichloride EDC 36 ² O C	111	A	Yes	1	No
Ethylene glycol hexyl ether EGH 40 O E	111	Α	No	N/A	No
Ethylene glycol monoalkyl ethers EGC 40 O D/E	111	Α	Yes	1	No
Ethylene glycol propyl ether EGP 40 O E	111	Α	Yes	1	No
2-Ethylhexyl acrylate EAI 14 O E	111	Α	Yes	2	.50-70(a), .50-81(a), (b)
Ethyl methacrylate ETM 14 O D/E	IH.	A	Yes	2	+.50-70(a)
2-Ethyl-3-propylacrolein EPA 19 ² O E	111	A	Yes	1	No
Formaldehyde solution (37% to 50%) FMS 19 ² O D/E	111	A	Yes	1	.55-1(h)
Furfural FFA 19 O E	111	A	Yes	1	.55-1(h)
Glutaraldehyde solution (50% or less) GTA 19 O NA	111	. A	No	N/A	No
Hexamethylenediamine solution HMC 7 O E	111	A	Yes	1	.55-1(c)
Hexamethyleneimine HMI 7 O C	- 11	Α	Yes	1	.56-1(b), (c)
Hydrocarbon 5-9 HFN O C	111	A	Yes	1	.50-70(a), .50-81(a), (b)
Isoprene IPR 30 O A	III.	A	No	N/A	.50-70(a), .50-81(a), (b)
Isoprene, Pentadiene mixture IPN O B	111	A	No	N/A	.50-70(a), .55-1(c)
Kraft pulping liquors (free alkali content 3% or more)(including: Black, KPL 5 O NA	111	A	No	N/A	.50-73, .56-1(a), (c), (g)
Green, or White liquor)	19 5				
Mesityl oxide MSO 18 ² O D	III	- A	Yes	1	No
Methyl acrylate MAM 14 O C	111	A	Yes	2	.50-70(a), .50-81(a), (b)
Methylcyclopentadiene dimer MCK 30 O C	111	Α	Yes	1	No
Methyl diethanolamine MDE 8 O E	111	Α	Yes	1	.56-1(b), (c)
2-Methyl-5-ethylpyridine MEP 9 O E	IH.	Α	Yes	1	*.55-1(e)
Methyl methacrylate MMM 14 O C	Ш	A	Yes	2	.50-70(a), .50-81(a), (b)
2-Methylpyridine MPR 9 O D	III	A	Yes	3	.55-1(c)
alpha-Methylstyrene MSR 30 O D	III	A	Yes	2	.50-70(a), .50-81(a), (b)
Morpholine MPL 7 2 O D	111	- A	Yes	1	.55-1(c)
1- or 2-Nitropropane NPM 42 O D	III	A	Yes	1	.50-81
1,3-Pentadiene PDE 30 O A	111	A	No	N/A	.50-70(a), .50-81

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



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Certificate of Inspection

Cargo Authority Attachment

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Official #: 1167656

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Shipyard: Trinity Madisonville

Cargo Identification	1711	95		1)			Co	nditio	ns of Carriage
		all -		T. H.	and the	1.00	Vapor Re	ecovery	
Name	Chem Code	Compat Group	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
Perchloroethylene	PER	36	0	NA	in	Α	No	N/A	No
Polyethylene polyamines	PEB	7 2	0	E	111	A	Yes	1	.55-1(e)
iso-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)
iso-Propylamine	IPP	7	0	Α	- 11	Α	No	N/A	.55-1(c)
Pyridine	PRD	9	0	С	. 111	Α	Yes	1	.55-1(e)
Sodium aluminate solution (45% or less)	SAU	5	0	NA	111	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	III	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	111	Α	Yes	1	.50-73, .55-1(b)
Sodium sulfide, hydrosulfide solution (H2S greater than 15 ppm but less than 200 ppm)	SSI	0 1,2		NA .	111	Α	No	N/A	.50-73, .55-1(b)
Sodium sulfide, hydrosulfide solution (H2S greater than 200 ppm)	SSJ	0 1,2		NA	- II	Α	No	N/A	.50-73, .55-1(b)
Styrene (crude)	STX		0	D	- 111	Α	Yes	2	No
Styrene monomer	STY	30	0	D	III	A	Yes	2	.50-70(a), .50-81(a), (b)
1,1,2,2-Tetrachloroethane	TEC	36	0	NA	Ш	Α	No	N/A	No
Tetraethylenepentamine	TTP	7	0	E	111	Α	Yes	1	.55-1(c)
Tetrahydrofuran	THE	41	0	С	111	A	Yes	1	.50-70(b)
Toluenediamine	TDA	9	0	E	II	A	No	N/A	.50-73, .56-1(a), (b), (c), (g)
1,2,4-Trichlorobenzene	TCB	36	0	E	111	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	- 111	Α	Yes	1	No
1,2,3-Trichloropropane	TCN	36	0	Е	- 11	A	Yes	3	.50-73, .56-1(a)
Triethanolamine	TEA	8 ²	0	E	- 111	Α	Yes	1	.55-1(b)
Triethylamine	TEN	7	0	C	- 11	Α	Yes	3	.55-1(e)
Triethylenetetramine	TET	7 2	0	E	- 111	A	Yes	1	.55-1(b)
Triphenylborane (10% or less), caustic soda solution	TPB	5	0	NA	- 40	Α	No	N/A	.56-1(a), (b), (c)
Trisodium phosphate solution	TSP	5	0	NA .	- 111	Α	No	N/A	.50-73, .56-1(a), (c).
Urea, Ammonium nitrate solution (containing more than 2% NH3)	UAS	6	0	NA	III	Α	No	N/A	.56-1(b)
Vanillin black liquor (free alkali content, 3% or more).	VBL	5	0	NA	- 111	Α	No	N/A	.50-73, .56-1(a), (c), (g)
Vinyl acetate	VAM	13	0	С	111	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 Acetone	ACT	18 ²	D	С		A	Yes	1	
Acetophenone	ACP	18	D	E		A	Yes	1	
Alcohol(C12-C16) poly(1-6)ethoxylates	APU	20	D	E		Α	Yes	1	
Alcohol(C6-C17)(secondary) poly(7-12)ethoxylates	AEB	20	D	E		Α	Yes	1	
Amyl acetate (all isomers)	AEC	34	D	D		Α	Yes	1	
Amyl alcohol (iso-, n-, sec-, primary)	AAI	20	D	D		Α	Yes	1	
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		Α	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	E		Α	Yes	1	
Butyl toluene	BUE	32	D	D		Α	Yes	1	
Caprolactam solutions	CLS	22	D	Е		Α	Yes	1	



Certificate of Inspection

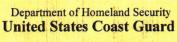
Cargo Authority Attachment

Vessel Name: MMI 3049 Official #: 1167656

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Shipyard: Trinity Madisonville

	C					Conditions of Carriage					
	Cargo Identification							Co	nditio	ns of Carriage	
		-			is.			Vapor R			
	Name	Chem Code	Compat Group	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	
							"				
Ovelet		CHY	24	_	_			Van			
-	nexane	CHX	_	D D	C E		A A	Yes	1		
	nexanol	CPD	30	D	D/E		A	Yes	2	*	
	rclopentadiene dimer (molten)	CMP	32	D	D		A	Yes	1		
p-Cym	ecaldehyde	IDA	19	D	E		A	Yes	1		
	aldehyde	DAL	19	D	E		A	Yes	1		
Decen		DCE		D	D		* A	Yes	1		
	alcohol (all isomers)	DAX	20 ²	D	E		A	Yes	1		
	ylbenzene, see Alkyl(C9+)benzenes	DBZ	32	D	E		A	Yes	1		
The second	one alcohol	DAA	20 2		E		Α	Yes	1		
-	Dibutyl phthalate	DPA	34	D	E	H 1	Α	Yes	1		
-	Ibenzene	DEB	32	D	D		Α	Yes	1		
	rlene glycol	DEG		D	E	1 1 1 1 1	A	Yes	1		
The second second second	utylene	DBL	30	D	С		A	Yes	1		
	utyl ketone	DIK	18	D	D		Α	Yes	1		
The second second	ropylbenzene (all isomers)	DIX	32	D	Ε		Α	Yes	1		
	hyl phthalate	DTL	34	D	E		Α	Yes	1		
-	I phthalate	DOP	34	D	Е		Α	Yes	1	· Land Company of the Company	
Dipent		DPN	30	D	D	Age of	Α	Yes	1		
Diphe	nyl	DIL	32	D	D/E		Α	Yes	1		
Diphe	nyl, Diphenyl ether mixtures	DDC	33	D	E		Α	Yes	1		
-	nyl ether	DPE	41	D	{E}		. A	Yes	1		
	pylene glycol	DPG	40	D	E		Α	Yes	1		
-	ates: Flashed feed stocks	DFF	33	D	E		Α	Yes	1		
Distilla	ates: Straight run	DSR	33	D	E		Α	Yes	1		
Dodeo	pene (all isomers)	DOZ	30	D	D		Α	Yes	1		
Dodeo	sylbenzene, see Alkyl(C9+)benzenes	DDB	32	D	E		A	Yes	1		
-	oxyethyl acetate	EEA	34	D	D	4,4	Α	Yes	1		
Ethox	y triglycol (crude)	ETG	40	D	Ę	1.51	A	Yes	1		
-	acetate	ETA	34	D	Ç		. A	Yes	1		
Ethyl	acetoacetate	EAA	34	D	E		A	Yes	1		
-	alcohol the	EAL	20 2	D	С		A	Yes	1		
_	enzene data da la companya da la com	ETB	32	D	С		Α	Yes	1		
-	butanol	EBT	20	D	D		Α	Yes	1		
	tert-butyl ether	EBE	41	D	С		A	Yes	1		
-	butyrate	EBR	34	D	D	Man,	A	Yes	1		
	cyclohexane	ECY	31	D	D	4	A	Yes	1		
	ene glycol	EGL	20 ²	D	E		* A	Yes	1	NAME OF THE PARTY	
	ene glycol butyl ether acetate	EMA	34	D	E		A	Yes	1		
	ene glycol diacetate	EGY	34	D	E		A	Yes	1		
-	ene glycol phenyl ether	EPE	40	D	E		A	Yes	1		
Ethyl-	3-ethoxypropionate	EEP	34	D	E		A	Yes	1		
	/lhexanol	EHX	20	D	E		A	Yes	1		
Ethyl	propionate	EPR	34	D	С		Α	Yes	1		
	toluene	ETE		D	E		A	Yes	1		
Forma	amide	FAM	1 10	D	E		* A	Yes	1		
The State of the S	ryl alcohol	FAL	20 ²	D	E	F 1 1	A	Yes	1		
	ine blending stocks: Alkylates	GAK	33	D	A/C	-	A	Yes	1		
	ine blending stocks: Reformates	GRF	-	D	A/C		A	Yes	1		
	ines: Automotive (containing not over 4.23 grams lead per gallon)	GAT	33	D	С		A	Yes	Name and Address of the Owner, where the Owner, which the	100	
Gasol	ines: Aviation (containing not over 4.86 grams of lead per gallon)	GAV	Contract of the last	D	C		A	Yes	1		
Gasol	ines: Casinghead (natural)	GCS	33	D	A/C		A	Yes	1		
The second second											



C1-0504010

29-Mar-05

Certificate of Inspection

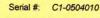
Cargo Authority Attachment

Vessel Name: MMI 3049 Official #: 1167656

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Shipyard: Trinity Madisonville

Common C	Cargo Identification				11			Co	nditio	ns of Carriage
Code Cross Cross		1144	No. of the same					Vapor Re	ecovery	
Cascilines Straight out	Name				Grade					
Cascines: Streight run	Gasolines: Polymer	GPL	33	D	A/C		A	Yes	1	
Gycerine		GSR	33	D	A/C		Α	Yes	1	· [20] [1] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2
Hesplanck All Nomers , see Alkanes (C8-C9) (all isomers)		GCR	20 ²	D	E	No.	Α	Yes	1	
HEPP 4		HMX	31	D	С		Α	Yes	1	
Horizon HTX 20		HEP	4	D	E		Α	Yes	-1	
Heybry decidate HPE		HTX	20	D	D/E		Α	Yes	1	
Hepty acetate		HPX	30	D	С		Α	Yes	2	
Hexanic all isomers), see Alkanes (C6-C9)		HPE	34	D	D		Α	Yes	1	
Hexanic acid		-		D	B/C		Α	Yes	1	
Hexariol HoN 20		HXO	4	D	Ε		Α	Yes	1	
Hexvene (all isomers)				-			A	Yes	1	
Hexylene glycol				_				-	2	
IPH		-				9-7-1-7	-			
Jet fuel: JP-4									-	
Jeff fuel: Jp-5 (kerosene, heavy)				-	-		_			
Kerosene				-					1	
Methyl acetate MIT 34 D D A Yes 1 Methyl alcohol MAL 20 D C A Yes 1 Methylamyl acetate MAC 34 D D A Yes 1 Methyl amyl ketone MAK 18 D D A Yes 1 Methyl terr-butyl ether MBE 41 2 D C A Yes 1 Methyl butyl ketone MBK 18 D C A Yes 1 Methyl ethyl ketone MBK 18 D C A Yes 1 Methyl ethyl ketone MBK 18 D C A Yes 1 Methyl ethyl ketone MIK 18 D D A Yes 1 Methyl ethyl ketone MIK 18 D D A Yes 1 Methyl papthalene (motlen) MIK 18				-						
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 terr-butyl ether MBE 41 ° 2 ° D ° C ° A ° Yes ° 1 Methyl butyrate MBB U ° 34 ° D ° C ° A ° Yes ° 1 Methyl butyrate MBU ° 34 ° D ° C ° A ° Yes ° 1 Methyl hetpol ketone MEK ° 18 ° D ° C ° A ° Yes ° 1 Methyl hetpol ketone MEK ° 18 ° D ° C ° A ° Yes ° 1 Methyl hetpol ketone MIK ° 18 ° D ° C ° A ° Yes ° 1 Methyl isobutyl ketone MIK ° 18 ° D ° C ° A ° Yes ° 1 Methyl isobutyl ketone MIK ° 18 ° D ° C ° A ° Yes ° 1 Methyl isobutyl ketone MIK ° 18 ° D ° C ° A ° Yes ° 1 Methyl isobutyl ketone MIK ° 18 ° D ° C ° A ° Yes ° 1 Methyl isobutyl ketone MIK ° 18 ° D ° C ° A ° Yes ° 1 Methyl isobutyl ketone MIK ° 18 ° D ° C ° A ° Yes ° 1 Methyl isobutyl ketone MIK ° 18 ° D ° C ° A ° Yes ° 1 Mineral spirits MNS ° 33 ° D ° D ° A ° Yes ° 1 Maptha: Year Yes ° 1 Naptha: Sol					All and the second		-			The state of the s
Methylamyl acetate MAC 34 D D A Yes 1 Methylamyl alcohol MAA 20 D D A Yes 1 Methyl myl ketone MAK 18 D D A Yes 1 Methyl butyl ketone MBE 41 2 D C A Yes 1 Methyl butyl ketone MBE 18 D C A Yes 1 Methyl ethyl ketone MEK 18 D C A Yes 1 Methyl pethyl ketone MEK 18 D C A Yes 1 Methyl pethyl ketone MIK 18 D C A Yes 1 Methyl aphthlefore MIK 18 D C A Yes 1 Methyl aphthlafere MIK 18 D C A Yes 1 Methyl aphthlafere MIK 33			_							
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Methyl tert-butyl ether MBE 41 ° D C A Yes 1 Methyl butyl ketone MBK 18 D C A Yes 1 Methyl butyl ketone MBL 34 D C A Yes 1 Methyl ketone MEK 16 ° D C A Yes 1 Methyl heptyl ketone MHK 18 ° D C A Yes 1 Methyl heptyl ketone MHK 18 ° D C A Yes 1 Methyl heptyl ketone MHK 18 ° D C A Yes 1 Methyl heptyl ketone MHK 18 ° D C A Yes 1 Methyl heptyl ketone MHK 8 D C A Yes 1 Methyl heptyl ketone MKE 10 ° C A Yes 1 Methyl heptyl ketone MRE 30 ° C A Yes 1 Methyl heptyl ketone MR C		7.7			Andread Library		_			
Methyl butyrate MBK 18 D C A Yes 1 Methyl butyrate MBU 34 D C A Yes 1 Methyl heptyl ketone MEK 18 D C A Yes 1 Methyl heptyl ketone MHK 18 D D A Yes 1 Methyl isobutyl ketone MHK 18 D D A Yes 1 Methyl isobutyl ketone MHK 18 D D A Yes 1 Methyl isobutyl ketone MHK 18 D D A Yes 1 Methyl isobutyl ketone MIK 8 D D A Yes 1 Methyl schole MIX 30 D A Yes 1 Milleral spirits MRK 30 D D A Yes 1 Mycone MRE 30 D D A </td <td></td>										
Methyl butyrate MBU 34 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 naphthalene (molten) MIK 18 D D A Yes 1 Miloreal spirits MINS 33 D D A Yes 1 Myrcene MRE 30 D D A Yes 1 Naphtha: Heavy NAG 33 D # A Yes 1 Naphtha: Solvent NSV 33 D # A Yes 1 Naphtha: Solvent NSV 33 D D A Yes 1 Naphtha: Solvent NSS 33 D D A Yes 1 Naphtha: Solvent NSS 33 D							_		-	
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Methyl isobutyl ketone MIK 18 ² D C A Yes 1 Methyl naphthalene (molten) MNA 32 D E A Yes 1 Mineral spirits MNS 33 D D A Yes 1 Myrcene MRE 30 D D A Yes 1 Naphtha: Heavy NAG 33 D # A Yes 1 Naphtha: Petroleum PTN 33 D # A Yes 1 Naphtha: Stolvent NSV 33 D D A Yes 1 Naphtha: Stoldard solvent NSV 33 D D A Yes 1 Naphtha: Varnish makers and painters (75%) NVM 33 D C A Yes 1 Nonane (all isomers), see Alkanes (C6-C9) NAX 31 D D A Yes 1 Nonene (all isomers) NNN 30 D D A Yes 1 Nonyl elohol (all isomers) NNS 20 ² D E A Yes 1 Nonyl phenol (all isomers) NNS 20 ² D E A Yes 1 Nonyl phenol polyl(4+)ethoxylates NPE 40 D E A Yes 1 Nonyl phenol polyl(4+)ethoxylates NPE 40 D E A Yes 1 Octance (all isomers) OAY 4 D E A Yes 1 Octanci cadi (all isomers) OAY 4 D E A Yes 1 Octanci cadi (all isomers) OAY 31 D C A Yes 1 Octanci cadi (all isomers) OAY 4 D E A Yes 1 Octanci cadi (all isomers)	Welligh elligh kelone								-	
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Mile			The second secon		_					
Naphtha: Heavy			-	-			_			
Naphtha: Petroleum PTN 33 D # A Yes 1 Naphtha: Solvent NSV 33 D D A Yes 1 Naphtha: Stoddard solvent NSS 33 D D A Yes 1 Naphtha: Varnish makers and painters (75%) NVM 33 D C A Yes 1 Nonane (all isomers), see Alkanes (C8-C9) NAX 31 D D A Yes 1 Nonene (all isomers) NON 30 D D A Yes 1 Nonyl alcohol (all isomers) NNS 20 D E A Yes 1 Nonyl phenol poly(4+)ethoxylates NPE 40 D E A Yes 1 Nonyl phenol poly(4+)ethoxylates NPE 40 D E A Yes 1 Octano (all isomers) OAX 31 D C A Yes 1										
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Nonane (all isomers), see Alkanes (C6-C9) NAX 31 D D A Yes 1 Nonene (all isomers) NON 30 D D A Yes 2 Nonyl alcohol (all isomers) NNS 20 D E A Yes 1 Nonyl phenol NNP 21 D E A Yes 1 Nonyl phenol poly(4+)ethoxylates NPE 40 D E A Yes 1 Octane (all isomers), see Alkanes (C6-C9) OAX 31 D C A Yes 1 Octanoic acid (all isomers) OAY 4 D E A Yes 1 Octanoic acid (all isomers) OCX 20 2 D E A Yes 1 Octanoic acid (all isomers) OCX 20 2 D E A Yes 1 Ottanoic acid (all isomers) OTX 30 D C A Yes				-					-	
Nonene (all isomers) NON 30 D D A Yes 2 Nonyl alcohol (all isomers) NNS 20 2 DE A Yes 1 Nonyl phenol NNP 21 DE A Yes 1 Nonyl phenol poly(4+)ethoxylates NPE 40 DE A Yes 1 Octane (all isomers), see Alkanes' (C6-C9) OAX 31 DC CA A Yes 1 Octanoic acid (all isomers) OAY 4 DE A Yes 1 Octanoi (all isomers) OCX 20 2 DE A Yes 1 Octene (all isomers) OTX 30 DC A Yes 1 Oil, fuel: No. 2 OTW 33 DC D/E A Yes 1 Oil, fuel: No. 4 OFR 33 DC D/E A Yes 1 Oil, fuel: No. 5 OFV 33 DC D/E A Yes 1 Oil, fuel: No. 6 OSX 33 DC D C/D					THE RESERVE AND ADDRESS OF THE PERSON NAMED IN COLUMN TWO		THE RESERVE OF THE PERSON NAMED IN		_	
Nonyl alcohol (all isomers)					-				-	
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 C A Yes 1 Octanoic acid (all isomers) OAY 4 D E A Yes 1 Octanol (all isomers) OCX 20 2 D E A Yes 1 Octene (all isomers) OTX 30 D C A Yes 1 Oil, fuel: No. 2 OTW 33 D D/E A Yes 1 Oil, fuel: No. 2-D OTD 33 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					-					
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Octane (all isomers), see Alkanes (C6-C9) OAX 31 D C A Yes 1 Octanoic acid (all isomers) OAY 4 D E A Yes 1 Octanol (all isomers) OCX 20 2 D E A Yes 1 Octene (all isomers) OTX 30 D C A Yes 1 Oil, fuel: No. 2 OTW 33 D D/E A Yes 1 Oil, fuel: No. 2-D OTD 33 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 E A Yes 1 Oil, misc: Crude OIL 33 D C/D A Yes 1				-			ASSESSMENT OF THE PARTY NAMED IN	AND DESCRIPTION OF THE PERSON NAMED IN		
Octanoic acid (all isomers) OAY 4 D E A Yes 1 Octanol (all isomers) OCX 20 2 D D E A Yes 1 Octene (all isomers) OTX 30 D D C A Yes 2 Oil, fuel: No. 2 OTW 33 D D D/E A Yes 1 Oil, fuel: No. 2-D OTD 33 D D D/E A Yes 1 Oil, fuel: No. 4 OFR 33 D D D/E A Yes 1 Oil, fuel: No. 5 OFV 33 D D D/E A Yes 1 Oil, fuel: No. 6 OSX 33 D D E A Yes 1 Oil, misc: Crude OIL 33 D D C/D A Yes 1				_						
Octanol (all isomers) OCX 20 2 DE A Yes 1 Octene (all isomers) OTX 30 DC A Yes 2 Oil, fuel: No. 2 OTW 33 DD D/E A Yes 1 Oil, fuel: No. 2-D OTD 33 DD DD A Yes 1 Oil, fuel: No. 4 OFR 33 DD D/E A Yes 1 Oil, fuel: No. 5 OFV 33 DD D/E A Yes 1 Oil, fuel: No. 6 OSX 33 DD DE A Yes 1 Oil, misc: Crude OIL 33 DD C/D A Yes 1		_		THE OWNER OF THE OWNER OF THE OWNER, THE OWN	_		Name and Address of the Owner, where	-	-	
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. 2-D OTD 33 D D 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 E A Yes 1 Oil, misc: Crude OIL 33 D C/D A Yes 1					_		THE RESERVE AND ADDRESS OF THE PERSON NAMED IN	-	MANAGEMENT OF REAL PROPERTY.	
Oil, fuel: No. 2 OTW 33 D D/E A Yes 1 Oil, fuel: No. 2-D OTD 33 D D 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 E A Yes 1 Oil, misc: Crude OIL 33 D C/D A Yes 1		-					THE RESERVE OF THE PERSON NAMED IN			
Oil, fuel: No. 2-D OTD 33 D D 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 E A Yes 1 Oil, misc: Crude OIL 33 D C/D 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 E A Yes 1 Oil, misc: Crude OIL 33 D C/D A Yes 1										
Oil, fuel: No. 5 OFV 33 D D/E A Yes 1 Oil, fuel: No. 6 OSX 33 D E A Yes 1 Oil, misc: Crude OIL 33 D C/D A Yes 1				-	-		THE OWNER OF TAXABLE PARTY.		-	
Oil, fuel: No. 6 OSX 33 D E A Yes 1 Oil, misc: Crude OIL 33 D C/D A Yes 1		_		-	Name and Address of the Owner, where the Owner, which is the Owner, which is the Owner, where the Owner, which is the Owner,		-	The second secon	-	
Oil, misc: Crude OIL 33 D C/D A Yes 1		The second second second		-			Name and Address of the Owner, where the Owner, which is	-	_	
Oil, fillist. Crude	Oil, fuel: No. 6	-	-	_			The same of the same of	And in case of the last of the		
Oil, misc: Diesel ODS 33 D D/E A Yes 1		THE RESERVE OF THE PERSON NAMED IN	Married Street, Square, or other Designation of the last of the la	THE RESERVE AND ADDRESS OF THE PERSON NAMED IN	_		-		-	
	Oil, misc: Diesel	ODS	33	D	D/E		A	Yes	1	



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Certificate of Inspection

Cargo Authority Attachment

Vessel Name: MMI 3049 Official #: 1167656

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Shipyard: Trinity Madisonville

Cargo Identification		Co	nditio	ns of Carriage					
1000 1000 1000 1000 1000 1000 1000 100							Vapor R		
Name	Chem	Compat Group	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
Humo	Code	Oloup 	Chapter	Cidac	Турел	Group	(1 01 14)	Category	General and Matis of Construction
Oil, misc: Lubricating	OLB	33	D	E		Α	Yes	1	
Oil, misc: Residual	ORL	33	D	E		Α	Yes	1	
Oil, misc: Turbine	OTB	33	D	E		Α	Yes	1	
alpha-Pinene	PIO	30	D	D		Α	Yes	1	
beta-Pinene	PIP	30	D	D		Α	Yes	1	and the second s
Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether	PAG	40	D	E	,,	Α	Yes	1	· 1000年度 - 1000年度 - 1000年度
Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether acetate	PAF	34	D	E		Α	Yes	1	
Polybutene	PLB	30	D	E		Α	Yes	1	
Polypropylene glycol	PGC	40	D	E		Α	Yes	1	
iso-Propyl acetate	IAC	34	D	С	-	. A	Yes	1	
n-Propyl acetate	PAT	34	D	С		Α	Yes	1	
iso-Propyl alcohol	IPA	20 ²	D	С		Α	Yes	1	
n-Propyl alcohol	PAL	20 2	D	С		Α	Yes	1	
Propylbenzene (all isomers)	PBY	32	D	D		Α	Yes	1	Notes (1) The state of the stat
iso-Propylcyclohexane	IPX	31	D	D		Α	Yes	1	
Propylene glycol	PPG	20 2	D	E		Α	Yes	1	
Propylene glycol methyl ether acetate	PGN	34	D	D	and a	Α	Yes	1	The second secon
Propylene tetramer	PTT	30	D	D		. A	Yes	1	
Sulfolane	SFL	39	D	E		Α	Yes	1	
Tetraethylene glycol	TTG	40	D	E		Α	Yes	1	
Tetrahydronaphthalene	THN	32	D	E	-	Α	Yes	1	
Toluene	TOL	32	D	С	• *	Ä	Yes	. 1	
Tricresyl phosphate (less than 1% of the ortho isomer)	TCP	34	D	Ε		Α	Yes	. 1	
Triethylbenzene	TEB	32	D	E		Α	Yes	1	
Triethylene glycol	TEG	40	D	E	4-4-7	A	Yes	1	
Triethyl phosphate	TPS	34	D	E	tr sage	- A	Yes	1	
Trimethylbenzene (all isomers)	TRE	32	D	{D}		A	Yes	1	Althorna Commission Co
Trixylenyl phosphate	TRP	34	D	Ē		A	Yes	1	The state of the s
Undecene paragraphic property and the paragraphic paragraphic and the paragraphic paragrap	UDC	30	D	D/E	1-1-1-	A	Yes	1	
1-Undecyl alcohol	UND	20	D	E		Α	Yes	1	
Xylenes (ortho-, meta-, para-)	XLX	32	D	D		Α	Yes	1	*
L. Pagel Contain	47.6	11							20 A 10 A



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Certificate of Inspection

Cargo Authority Attachment

Vessel Name: MMI 3049

Official #: 1167656

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Shipyard: Trinity Madiso

Hull #: 2139-2

Explanation of terms & symbols used in the Table:

Cargo Identificatio

Chem Code none

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

Telephone (202) 267-1217

See Appendix I to 46 CFR Part 150 - exceptions to the compatability chart.

Subchapter Subchapter D 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

Grade

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

A.B.C Note 4 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.

NA Hull Type

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 Carriag

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)

Yesi 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 Carriag

Tank Group

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

Vapor 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

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 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

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