

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

Certification Date: 17 Aug 2023 Expiration Date: 17 Aug 2028

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.

								-	The second second
Vessel Name			Official Numb		IMO N	umber	Call Sign	Service	
MER 10			1210469					Tank i	Barge
Hailing Port			Hall	Material	AGE HO	rsepower	Propulsion		
HOUSTON,	TX		Ste			iachou.ei	Liohnidioit		
UNITED STA	ATES								
Place Built		-	Delivery I	Date	Keel Laid Date	Gross Tons	Net Tons	DWT	Length
GALVESTO	N, TX				15Oct2007	R-764	R-764		R-200.0
UNITED STA	ATES				TOCOLEGO	+	F		1-0
Owner MERICHEM (COMPANY				Oper		TARREST LO		
544 Old Span						50 MARKET	MARINE, LP		
Houston, TX	77023				CH	ANNELVIEV	V, TX 77530		
UNITED STA	TES				UN	ITED STATE	S		
This vessel m 0 Certified Life	ust be manne eboatmen, 0 (d with the fo Certified Tan	llowing lic kermen, (ensed O HSC	and unlicens Type Rating	ed Personne , and 0 GMD	I. Included in	which there m	ust be
0 Masters		O Licensed Ma	ates	0 Chief	Engineers	0.0	Dilers	-	
0 Chief Mates		0 First Class I	Pilots	0 First A	Assistant Engine	ers			
0 Second Mal		0 Radio Office		0 Secon	nd Assistant En	gineers			
0 Third Mates		0 Able Seame			Assistant Engir	eers			
0 Master First 0 Mate First 0		0 Ordinary Se 0 Deckhands			sed Engineers	•			
and the same of	is vessel may				ied Member En Persons in o	Principal Control of the Control of	ons in addition	to crew, and	no Others. Total
Route Perm	itted And Co	nditions Of	Operation	n:					
Lakes, I			The second second		Coastwi	se			
Also, in fai Florida.							between St.	Marks and Ca	arrabelle,
This vessel is op- salt water in change in st	erated in sa ntervals per	lt water mo	ore than	6 mont	ths in anv	2 month per	riod, the ves	sel must be	(2). If this inspected using oon as this
SEE NEX	T PAGE FO	R ADDITIO	NAL CER	RTIFIC	ATE INFOR	MATION			
With this Inspection, Malaws and the n	arine Safety U	nit Port Arthu	ur certified	the ve	essel, in all re	rthur, TX, UN espects, is in	NITED STATE conformity wit	S, the Officer h the applicat	in Charge, Marine ole vessel inspection
		riodic/Re-Ins		Curiue		This certificat	e issued by:	7.5	111-1
Date	Zone	A/P/R	Mark Co.	gnatur			WOODMAN,	DR USCG	By direction
2930124	3 KG	A	37	y ow	-	Officer In Charge, M		JUIN, 030G,	by unection
								ty Unit Port A	rthur
-				-1-7		nspection Zone			
		-							



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Certificate of Inspection

Vessel Name: MER 10

---Hull Exams---

Exam Type

Next Exam

Last Exam

Prior Exam

DryDock

31Jul2028

10Jul2018

23Apr2008

Internal Structure

31Aug2028

17Aug2023

10Jul2018

--- 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

8926

Barrels

Yes

No

No

Hazardous Bulk Solids Authority

Not Authorized

Loading Constraints - Structural

Tank Number	Max Cargo Weight per Tank (short tons)	Maximum Density (lbs/gal)
#1	570	13.6
#2	570	13.6
#3	570	13.6

Loading Constraints - Stability

Hull Type	Maximum Load (short tons)	Maximum Draft (ft/in)	Max Density (lbs/gal)	Route Description
H	1549	9ft 4in	13.6	
11	1630	9ft 6in	13.6	

Conditions Of Carriage

Only those specified hazardous cargoes named in the vessel's Cargo Authority Attachment (CAA), serial #C1-0703240, dated 29OCT2007, 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.

46 CFR 151.45-2(b) contains restrictions on operation box and square end barges as the lead barges of tows.

Vapor Control Authorization

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 letter serial #C1-0703240 dated 29OCT2007, , and found acceptable for collection of bulk liquid cargo vapors annotated with "Yes" in the CAA's VCS column.

Stability and Trim

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 8.74 lbs/gal. Cargoes with higher densities, up to



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13.6 lbs/gal, may be carried as slack loads, but shall not exceed the tank weight limits as listed above.

--- Inspection Status ---

Cargo Tanks

	Internal Exam	1		External Exa	ım	
Tank Id	Previous	Last	Next	Previous	Last	Next
#1	23Apr2008	10Jul2018	31Jul2028	-	-	-
#2	23Apr2008	10Jul2018	31Jul2028	-	-	-
#3	23Apr2008	10Jul2018	31Jul2028	*	-	-
			Hydro Test			
Tank Id	Safety Valves	3	Previous	Last	Next	
#1	-		•	-	-	
#2	-		-	-	-	
#3	-		**	_	-	

--- 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

_

40-B

END



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

Serial #: C1-0703240

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Vessel Name: MER 10 Official #: 1210469

Shipyard: Kennedy Construction

Hull #: 110

Tank Group Information			Cargo	Tanks			Cargo Transfer		Environmental Control		Fire	Special Requirements					
Trik Grp: Tanks in Group	Density Pr	ess.	Temp.	Hull Typ	Seg	Туре	Vent	Gauge	Pipe Class	Cont	Tanks	Handling Space	Protection Provided	General	Materials of Construction	Elec Haz	Temp Cont
A #1-3C	13.6 At	mos.	Amb.	II	1ii 2ii	Integral Gravity	PV	Closed	ţį	G-1	NR	NA	Portable	.50-60, .50-70(a), .50-70(b),	55-1(b), (c), (e), (f), (j), 56-1(a), (b), (d), (e), (f), (g), 58-1(a)	NR	No

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

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

List of Authorized Cargoes

Cargo Identificatio	n					Conditions of Carriage						
			:				Vapor R	ecovery				
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Huli Type	Tank Group	App'd (Y or N)	VCS Category	Special Requirements in 46 CFR 151 General and Mat'ls of	Insp. Period		
Authorized Subchapter O Cargoes												
Acetonitrile	ATN	37	0	С	III	Α	No	N/A	No	G		
Acrylic acid	ACR	42	0	D		Α	No	N/A	.50-70(a), .50-73, .50-81, .58-1(a)	G		
Acrylonitrile	ACN	15 ²	0	C	ll .	Α	No	N/A	.50-70(a), .55-1(e)	G		
Adiponitrile	ADN	37	0	E	II.	Α	Yes	1	No	G		
Alkyl(C7-C9) nitrates	AKN	34 2	0	NA	III	Α	No	N/A	.50-81, .50-86	G		
Aminoethylethanolamine	AEE	8	0	E	111	Α	Yes	1	.55-1(b)	G		
Anthracene oil (Coal tar fraction)	AHO	33	0	NA	II	Α	No	N/A	No	G		
Benzene	BNZ	32	0	С	111	Α	Yes	1	.50-60	G		
Benzene or hydrocarbon mixtures (having 10% Benzene or more)	BHB	32 ²	0	C	111	Α	Yes	1	.50-60	G		
Benzene or hydrocarbon mixtures (containing Acetylene and 10% Benzene or more)	ВНА	32 ²	0	С	111	Α	Yes	1	.50-60, .56-1(b), (d), (f), (g)	G		
Benzene, Toluene, Xylene mixtures (10% Benzene or more)	BTX	32	0	B/C	III	Α	Yes	1	50-60	G		
Butyl acrylate (all isomers)	BAR	14	0	D	111	Α	No	N/A	.50-70(a), .50-81(a), (b)	G		
Butyl methacrylate	ВМН	14	0	D	111	Α	No	N/A	.50-70(a), .50-81(a), (b)	G		
Butyraldehyde (all isomers)	BAE	19	0	С	111	Α	Yes	1	.55-1(h)	G		
Camphor oil (light)	CPO	18	0	D	11	A	No	N/A	No	G		
Carbon tetrachloride	CBT	36	0	NA	111	Α	No	N/A	No	G		
Caustic potash solution	CPS	52	0	NA	1)	Α	No	N/A	.50-73, .55-1(j)	G		
Caustic soda solution	CSS	5 ²	0	NA	III	Α	No	N/A	.50-73, .55-1(j)	G		
Chemical Oil (refined, containing phenolics)	COD	21	0	E	II .	A	No	N/A	.50-73	G		
Chlorobenzene	CRB	36	0	D	111	Α	Yes	1	Na	G		
Chloroform	CRF	36	0	NA	III	Α	No	N/A	No	G		
Coal tar naphtha solvent	NCT	33	0	D		A	Yes	1	.50-73	G		
Creosote	CCW	212	0	E	111	Α	Yes	1	No	G		
Cresols (all isomers)	CRS	21	0	E	111	Α	Yes	1	No	G		
Cresylate spent caustic	CSC	5	0	NA	111	A	No	N/A	.50-73, .55-1(b)	G		
Cresylic acid tar	CRX		0	E	III	A	Yes	1	.55-1(f)	G		
Crotonaldehyde	CTA	19 ²	0	С	11	Α	No	N/A	.55-1(h)	G		
Crude hydrocarbon feedstock (containing Butyraldehydes and Ethylpropyl acrolein)	CHG		0	С	III	Α	No	N/A	No	G		
Cyclohexanone	ССН	18	0	D	111	Α	Yes	1	.56-1(a), (b)	G		
Cyclohexanone, Cyclohexanol mixture	CYX	18 ²	0	E	111	A	Yes	1	.56-1 (b)	G		
Cyclopentadiene, Styrene, Benzene mixture	CSB	30	0	D	111	A	Yes	<u>·</u>	.50-60, .56-1(b)	G		
iso-Decyl acrylate	IAI	14	0	E	111		No	N/A	.50-70(a), .50-81(a), (b), .55-1(c)	G		
Dichlorobenzene (all isomers)	DBX	36	0	 E	111	A	No	N/A	.56-1(a), (b)	G		
1,1-Dichloroethane	DCH	36	0	c	<u></u>	A	Yes	1	No	G		



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Cargo Identification	}					Conditions of Carriage						
							Vapor F	Recovery				
Name 2,2'-Dichloroethyl ether	Chem Code DEE	Compat Group No 41	Sub Chapter O	Grade D	Huli Type II	Tank Group A	App'd (Y or N) Yes	VCS Category 1	Special Requirements in 46 CFR 151 General and Mat'ls of .55-1(f)	Insp. Period G		
Dichloromethane	DCM	36	0	NA	111	Α	No	N/A	No	G		
2,4-Dichlorophenoxyacetic acid, dimethylamine salt solution (70% or less)	DDA		0	LFG	III	Α	No	N/A	.55-1(b)	G		
1,1-Dichloropropane	DPB	36	0	C	Ш	Α	No	N/A	No	G		
1,2-Dichloropropane	DPP	36	0	С	111	Α	No	N/A	No	G		
1,3-Dichloropropane	DPC	36	0	С	111	A	No	N/A	No	G		
1,3-Dichloropropene	DPU	15	0	۵	11	Α	No	N/A	No	G		
Dichloropropene, Dichloropropane mixtures	DMX	15	0	С	11	Α	Yes	1	No	G		
Diethanolamine	DEA	8	0	E	[1]	Α	Yes	1	.55-1(c)	G		
Diethylamine	DEN	7	0	С		Α	No	N/A	.55-1(c)	G		
Diethylenetriamine	DET	72	0	E	Ш	Α	Yes	1	.55-1(c)	G		
Diisobutylamine	DBU	7	0	D	III	Α	No	N/A	.55-1(c)	G		
Diisopropanolamine	DIP	8	0	E		A	Yes	1	.55-1(c)	G		
Diisopropylamine	DIA	7	0	C		A	No	N/A	.55-1(c)	G		
N,N-Dimethylacetamide	DAC	10	0	E	111	Α	No	N/A	.56-1(b)	G		
Dimethylformamide	DMF	10	0	D	111	A	Yes	1	.55-1(e)	G		
Di-n-propylamine	DNA		0	Ç	11	Α	No	N/A	.55-1(c)	G		
Dodecyldimethylamine, Tetradecyldimethylamine mixture	DOT	7	0	E	111	Α	No	N/A	.56-1(b)	G		
Ethanolamine	MEA		0	E	111	A	Yes		.55-1(c)	G		
Ethyl acrylate	EAC	14	0	C	<u>```</u>	A	No	N/A	.50-70(a), .50-81(a), (b)	G		
Ethylamine solution (72% or less)	EAN	7	0	A		A	No	N/A	.55-1(b)	G		
N-Ethylbutylamine	EBA	7	0	D			No	N/A		G		
N-Ethylcyclohexylamine	ECC		_	D	111	A	Yes		.55-1(b)	G		
Ethylene cyanohydrin	ETC	20	- 0	E	111	A	Yes		No	G		
Ethylenediamine	EDA	72	0	D	111	A	Yes		.55-1(c)	G		
Ethylene dichloride	EDC		- 0	C	111	Α	Yes		No	G		
Ethylene glycol hexyl ether	EGH			E	111	^\`A	No	N/A	No	G		
	EGC			D/E		<u>``</u>	Yes		No	G		
Ethylene glycol monoalkyl ethers Ethylene glycol propyl ether	EGP		- 0	E			Yes		No	G		
	EAI	14	_ _	E	<u></u>	<u>^</u>	No	N/A	.50-70(a), .50-81(a), (b)	G		
2-Ethylhexyl acrylate	ETM			D/E	<u>'''</u> -	A	No	N/A		G		
Ethyl methacrylate	EPA		0	E	111	A	Yes		No	G		
2-Ethyl-3-propylacrolein	FMS		0	D/E	111	A	Yes		.55-1(h)	G		
Formaldehyde solution (37% to 50%)	FFA	19	0	D	111	A	Yes		.55-1(h)	G		
Furfural Chitaraldohuda calution (50% or local)	GTA		- 6	NA.	111	A	No	N/A		G		
Glutaraldehyde solution (50% or less) Hexamethylenediamine solution	HMC		- 0	E	#11		Yes		.55-1(c)	G		
	HFN				111	<u>^</u> -	Yes		.50-70(a), .50-81(a), (b)	G		
Hydrocarbon 5-9	IPR	30				——————————————————————————————————————	No	N/A		G		
Isoprene Pentadione michare	IPN	30		В		<u>^</u> _	No	N/A		G		
rsoprene, Fentaglene mixture	MSC) 18 ²	0	ā			Yes		No	G		
Mesityl oxide	MAN		0	C		A	No	N/A		G		
Methyl acrylate						A			No	G		
Methylcyclopentadiene dimer	MCK			C	111	A	Yes		.55-1(e)	G		
2-Methyl-5-ethylpyridine	MEP			E	- 111	A .	Yes	N/A		G		
Methyl methacrylate	MM			_ <u>c</u> _	111	A	No.			G		
2-Methylpyridine	MPR			D	111	A	No	N/A		G		
aipha-Methylstyrene	MSF		0	D	111	A	No	N/A	.55-1(c)	G		
Morpholine	MPL			<u>D</u>	- 111	A	Yes		.50-81	G		
1- or 2-Nitropropane	NPN	~~	0	ā	111	<u>A</u>	Yes			G		
1,3-Pentadiene	PDE		0	A		A	No	N/A				
Perchloroethylene	PER	36	0	NA	111	A	No	N/A	, No	G		

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Cargo Identification Conditions of Carriage Sub Hull Tank App'd VCS Special Requirements in 46 CFR Grade Name Chapter O or N) 151 General and Mat'ls of .55-1(e) Type III Group Period Polyethylene polyamines E Yes Α iso-Propanolamine MPA O Ε 111 Α .55-1(c) Yes iso-Propylamine IPP 0 Α 11 A No N/A .55-1(c) Pyridine PRD 9 O С Α Yes .55-1(e) Sodium acetate, Glycol, Water mixture (3% or more Sodium SAP 0 .50-73, .55-1(j) G No N/A Hydroxide) Sodium chlorate solution (50% or less) ብ 1,2 SDD O NA Ш N/A 50-73 Sodium hypochlorite solution (20% or less) SHO 0 NA Ш Α No 50-73, 56-1(a), (b) 0 1.2 Sodium sulfide, hydrosulfide solution (H2S 15 ppm or less) SSH 0 NA Ш Α Yes 50-73, 55-1(b) Sodium sulfide, hydrosulfide solution (H2S greater than 15 ppm but 0 1.2 SSI NA 50-73, 55-1(b) 0 Ш Α No N/A less than 200 ppm) Sodium sulfide, hydrosulfide solution (H2S greater than 200 ppm) SSJ 0 1.2 50-73, 55-1(b) G O NΑ H Α No N/A 0 1,2 Sodium thiocyanate solution (56% or less) STS 0 NΑ Ш Α Nο N/A Styrene (crude) STX 0 D Ш Α No N/A Styrene monomer .50-70(a), .50-81(a), (b) STY 30 0 D Ш Α N/A No 1,1,2,2-Tetrachloroethane G 36 0 NΑ Ш A No N/A Tetraethylenepentamine TTP Ö E 55-1(c) G Ш Α Yes 1 Tetrahydrofuran THF 0 С Ш A Yes 50-70(6) G 1,2,4-Trichlorobenzene **TCB** O E G Ш Α Yes 1,1,2-Trichloroethane TCM 0 NA 50-73, 56-1(a) Α Yes Trichloroethylene TCL 36² 0 NA Ш Α Yes 1,2,3-Trichloropropane TCN 0 E II 50-73, 56-1(a) No Triethanolamine TEA 8 2 0 Ë Ш Yes .55-1(b) G Triethylamine TEN 0 C H Α No N/A 55-1(e) G Triethylenetetramine 7 2 G TET 0 Ë Ш Α Yes 55-1(b) Urea, Ammonium nitrate solution (containing more than 2% NH3) G UAS O NA Ш Α No N/A .56-1(b) VAM C 50-70(a), 50-81(a), (b) G 13 0 Ш Νø N/A Vinyl neodecanate VND .50-70(a), .50-81(a), (b) 0 G 13 E Ш Α No N/A Subchapter D Cargoes Authorized for Vapor Control

Cabonaptor D Cargoca Mathorized for Vapor Conti	OI .							
Acetone	ACT	18 ²	D	C	Α	Yes	1	
Acetophenone	ACP	18	D	Ε	Α	Yes	1	
Alcohol(C12-C16) poly(1-6)ethoxylates	APU	20	D	Е	Α	Yes	1	
Alcohol(C6-C17)(secondary) poly(7-12)ethoxylates	AEB	20	Ď	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	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	
Butyl acetate (all isomers)	BAX	34	D	D	Α	Yes	1	
Butyl alcohol (iso-)	IAL	20 ²	D	D	A	Yes	1	
Butyl alcohol (n-)	BAN		D	D	Α	Yes	1	
Butyl alcohol (sec-)	BAŞ	***************************************	D	Ç	Α	Yes	1	
Butyl alcohol (tert-)	BAT		D	Ç	Α	Yes	1	m.
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	
p-Cymene	CMP	32	D	D	A	Yes	1	
iso-Decaldehyde	IDA	19	D	E	A	Yes	1	



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Vessel Name: MER 10

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	Car	rgo Identification	Conditions of Carriage
ľ	Name	Chem Compat Sub Hull Code Group No Chapter Grade Type	

Quigo taoritirous	/ I I								illono or carriago	
			ο.		11.11	W a.		Recovery	0	araraa.
Name	Chem	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Gross	App'd (Y or N)	VCS Category	Special Requirements in 46 CFR 151 General and Mat'ls of	Insp. Period
n-Decaldehyde	DAL	19	D	E		Α	Yes	1		
Decene	DÇE	30	D	D		Α	Yes	11		
Decyl alcohol (all isomers)	DAX	20 2	D			_ A	Yes	11		
n-Decylbenzene, see Alkyl(C9+)benzenes	DBZ	32	D	E		A	Yes	1		
Diacetone alcohol	DAA	20 ²	_D	D		Α	Yes	1		
ortho-Dibutyl phthalate	DPA	34	D	E		Α	Yes	1		
Diethylbenzene	DEB	32	D	D		A	Yes	11		
Diethylene glycol	DEG	40 ²	D	E		Α	Yes	1		
Diisobutylene	DBL	30	D	С		Α	Yes	1		
Diisobutyl ketone	DIK	18	D	D		Α	Yes	1		
Diisopropylbenzene (all isomers)	DIX	32	D	E		A	Yes	11		
Dimethyl phthalate	DTL	34	D	Ε		. A	Yes	1		
Dioctyl phthalate	DOP	34	D	Е		Α	Yes	1		
Dipentene	DPN	30	D	D		Α	Yes	1		
Diphenyl	DIL	32	D	D/E		Α	Yes	1		
Diphenyl, Diphenyl ether mixtures	DDO	33	D	Е		Α	Yes	1		
Diphenyl ether	DPE	41	D	{E}		Α	Yes	1		
Dipropylene glycol	DPG	40	D	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	***************************************	Α	Yes	1		
2-Ethoxyethyl acetate	EEA	34	D	D		Α	Yes	1	***************************************	
Ethoxy triglycol (crude)	ETG	40	D	E		Α	Yes	1		
Ethyl acetate	ETA	34	D	С		Α	Yes	1		
Ethyl acetoacetate	EAA	34	D	E		A	Yes	1		
Ethyl alcohol	EAL	20 ²	D	C		Α	Yes	1		
Ethylbenzene	ETB	32	D	C		Α	Yes	1		
Ethyl butanol	EBT	20	D	D		Α	Yes	i		
Ethyl tert-butyl ether	EBE	41	D	c		A	Yes	<u>-</u>		
Ethyl butyrate	EBR	34					Yes	1		
Ethyl cyclohexane	ECY	31	D	D D			Yes	<u>'</u>		
Ethylene glycol	EGL	20 ²	D	E			Yes	1		
	EMA	34					Yes	1		
Ethylene glycol butyl ether acetate Ethylene glycol discotate	EGY	34	D	E			Yes	1		
Ethylene glycol diacetate	EPE	40	D	Ē			Yes	<u>-</u>		
Ethylene glycol phenyl ether Ethyl-3-ethoxypropionate	EEP	34	D	D		^_	Yes	1		
	EHX	20	D D	E		^_	Yes	<u>'</u>		••••
2-Ethylhexanol	EPR	34	D D	c			Yes	1		
Ethyl propionate	ETE	32	D	D		A	Yes	1		
Ethyl toluene	FAM	10	D	E		A	Yes	1		
Formamide	FAL	20 ²	<u>D</u>	E				1		
Furfuryi alcohol						A	Yes			
Gasoline blending stocks: Alkylates	GAK	33	D	A/C	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	A	Yes	1		
Gasoline blending stocks: Reformates	GRF	33	<u> </u>	A/C		A	Yes	11		·········
Gasolines: Automotive (containing not over 4.23 grams lead per gallon)	GAT	33	D	C	********	A	Yes	1	****	//
Gasolines: Aviation (containing not over 4.86 grams of lead per gallon)	GAV	33	D 	с 		A 	Yes	1 		
Gasolines: Casinghead (natural)	GCS	33	D	A/C		Α	Yes	1		
Gasolines: Polymer	GPL	33	D	A/C		Α	Yes	11		
Gasolines: Straight run	GSR	33	D	A/C		Α	Yes	1		



Serial #: C1-0703240

29-Oct-07

Certificate of Inspection

Cargo Authority Attachment

Vessel Name: MER 10

Shipyard: Kennedy Construction

Hull #: 110

Official #: 1210469

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Cocce Cocc	Cargo Identificat	ion					:		Condi	tions of Carriage	AAA AAAAA
Cyclerine								: Vapor l	Recovery		
Heptanole add	Name Glycerine	Code	Group No	Chapter		Hull Type	Group	(Y or N)	Category		Insp. Period
Heghpa Call Isomers HTX 20	Heptane (all isomers), see Alkanes (C6-C9) (all isomers)	НМХ	31	D	С		Α	Yes	1		
Hepty acatate	Heptanoic acid	HEP	4	D	E		Α	Yes	1		
Hexane A Feed F	Heptanol (all isomers)	HTX	20	D	D/E	·····	A	Yes	1		
Hexanolic acid HXS 31		HPE	34	D	Ε		A		1		***************************************
Hexanol acid		·····		D							
Hourstand Hour 20											
Havylene glycol											<u> </u>
Isophorone											····
Jet fuel: JP-4 JPF 33 D E A Yes 1				,,	· · · · · · · · · · · · · · · · · · ·				····	***************************************	
Jef fuel: JP-5 (kerosene, heavy)				*************							
Kerosene			····			,,,,	····				·
Methyl alcohol MAL 20									***************************************		·
Methyl alcohol MAL 20						·····					
Methylamyl accitate		····									
Methylamyl alcohol MAA 20 D D A Yes 1						***************************************				······································	
Mark											
Methyl tort-butyl ether MBE 41 ° D C A Yes 1 Methyl butyl ketone MBK 18 D C A Yes 1 Methyl butyl ketone MBK 18 ° D C A Yes 1 Methyl helptyl ketone MEK 18 ° D D A Yes 1 Methyl helptyl ketone MIK 18 ° D D A Yes 1 Methyl helptyl ketone MIK 18 ° D D A Yes 1 Methyl helptyl ketone MIK 18 ° D D A Yes 1 Methyl helptyl ketone MIK 18 ° D D A Yes 1 Methyl helptyl ketone MIK 18 ° D D A Yes 1 Methyl helptyl ketone MIK 18 ° D D A Yes 1 Methyl helptyl ketone MIK 18 ° D D A Yes 1 Methyl bethyl ketone <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>											
Methyl butyrate MBK 18 D C A Yes 1 Methyl butyrate MBU 34 D C A Yes 1 Methyl butyrate MEK 18 D C A Yes 1 Methyl betyl ketone MHK 18 D D A Yes 1 Methyl isobutyl ketone MIK 18 D D A Yes 1 Methyl isobutyl ketone MIK 18 D D 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 D A Yes 1 Mycone MRE 30 D D A Yes 1 Naphtha: Heavy NAC 33 D D							····			······	
Methyl butyrate MBU 34 D C A Yes 1 Methyl ethyl ketone MEK 18 D C A Yes 1 Methyl ethyl ketone MHK 18 D D A Yes 1 Methyl pobutyl ketone MIK 18 D D A Yes 1 Methyl aphthalene (molten) MNA 32 D E A Yes 1 Methyl aphthalene (molten) MNA 32 D E A Yes 1 Methyl aphthalene (molten) MNA 32 D E A Yes 1 Miloraria spirits MNS 33 D D A Yes 1 Malphtra: Heavy NAG 33 D # A Yes 1 Naphtra: Solvent NSC 33 D # A Yes 1 Naphtra: Stoddard solvent NSS 33											
Methyl ethyl ketone MEK 18 2 D C A Yes 1 Methyl heptyl ketone MHK 18 0 D D A Yes 1 Methyl heptyl ketone MIK 18 2 D C A Yes 1 Methyl isobutyl ketone MIK 18 2 D E A Yes 1 Methyl isobutyl ketone MIR 2 D E A Yes 1 Methyl isobutyl ketone MIR 2 D E A Yes 1 Milreral spirits MIR 3 D D A Yes 1 Mycone MRE 30 D D A Yes 1 Mycroene MRE 30 D D A Yes 1 Mapthat Heavy NAG 33 D # A Yes 1 Naphtha: Stoddard solvent NSS 33 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>····</td><td></td><td></td></td<>									····		
Methyl heptyl ketone MHK 18 D D A Yes 1 Methyl isobutyl ketone MIK 18 2 D D C A Yes 1 Methyl naphthalene (molten) MNA 32 D D 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 D # A Yes 1 Naphtha: Petroleum PTN 33 D # A Yes 1 Naphtha: Stowent NSV 33 D D A Yes 1 Naphtha: Stoddard solvent NSS 33 D D A Yes 1 Naphtha: Stoddard solvent NSS 33 D D A Yes 1 Naphtha: Stoddard solvent NSS 33 D D A Yes 1 Naphtha: Stodd		MBU	34	D	С		A	Yes	1	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
Methyl isobutyl ketone MIK 18 2 D C A Yes 1 Methyl naphthalene (molten) MMA 32 D E A Yes 1 Mineral spirits MNS 33 D D A Yes 1 Mineral spirits MNS 33 D D A 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 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 (C6-C9) NAX 31 D D A Yes 1 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 Octane (all isomers) oAX 31 D C A Yes 1 OC A Yes 1 Octanol (all isomers) OAY 4 D E A Yes 1 Octanol (all isomers) OAY 4 D E A Yes 1 Octanol (all isomers) OCX 20 D E A Yes 1 Octanol (all isomers) OCX 20 D E A Yes 1 Oil, fuel: No. 2 O TO 33 D D A Yes 1 Oil, fuel: No. 2 O TO 33 D D A Yes 1 Oil, fuel: No. 4 OFR 33 D D/E A Yes 1	Methyl ethyl ketone	MEK	18 ²	D	С		Α	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: Stoldard solvent NSV 33 D D A Yes 1 Naphtha: Vamish 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 Nonyl alcohol (all isomers) NNS 20² D E A Yes 1 Nonyl phenol NNP 21 D E A Yes 1 Nonyl phenol poly(4+)elhoxylates	Methyl heptyl ketone	MHK	18	D	D		. Α	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: Petroleum PTN 33 D # A Yes 1 Naphtha: Stoldent NSV 33 D D A Yes 1 Naphtha: Stoddard solvent NSS 33 D D A Yes 1 Naphtha: Vamish makers and painters (75%) NVM 33 D C A Yes 1 Nonal painters (75%) NVM 33 D C A Yes 1 Nonyl painters (C6-C9) NAX 31 D D A Yes 1 Nonyl phenol poly(4+)ethoxylates NPE 40 <td>Methyl isobutyl ketone</td> <td>MIK</td> <td>18 ²</td> <td>D</td> <td>C</td> <td></td> <td>Α</td> <td>Yes</td> <td>1</td> <td></td> <td></td>	Methyl isobutyl ketone	MIK	18 ²	D	C		Α	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: Solvent NSV 33 D D A Yes 1 Naphtha: Stoddard solvent NSS 33 D D A Yes 1 Naphtha: Stoddard solvent NSS 33 D D A Yes 1 Naphtha: Stoddard solvent NSS 33 D C A Yes 1 Naphtha: Stoddard solvent NSS 33 D C A Yes 1 Naphtha: Stoddard solvent NSS 33 D C A Yes 1 Nonal stoddard solvent NSS 20 D E A Yes 1 Nonal stoddard solvent NSS 33	Methyl naphthalene (molten)	MNA	32	D	E		Α	Yes	1		
Naphtha: Heavy	Mineral spirits	MNS	33	D	D		Α	Yes	1		
Naphtha: Petroleum	Myrcene	MRE	30	D	D		Α	Yes	1		
Naphtha: Solvent	Naphtha: Heavy	NAG	33	D	#	,	Α	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 (C6-C9) NAX 31 D D A Yes 1 Nonyl alcohol (all isomers) NNS 20 2 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 Octanol (all isomers), see Alkanes (C6-C9) OAX 31 D C A Yes 1 Octanol (all isomers) OAY 4 D E A Yes 1 Oil, fuel: No. 2 OTW 33 D D/E A Yes 1 Oil, fuel: No. 4 OFR 33 D D/E A Yes 1	Naphtha: Petroleum	PTN	33	D	#	***************************************	Α	Yes	1		*******
Naphtha: Vamish 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 Nonyl alcohol (all isomers) NNS 20 2 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) OAY 4 D E A Yes 1 Octanoic acid (all isomers) OCX 20 2 D E A Yes 1 Oil, fuel: No. 2 OTW 33 D D/E A Yes 1	Naphtha: Solvent	NSV	33	D	D		Α	Yes	1		
Nonane (all isomers), see Alkanes (C6-C9) NAX 31 D D A Yes 1 Nonyl alcohol (all isomers) NNS 20 2 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 (all isomers) OCX 20 2 D E A Yes 1 Octanoic (all isomers) OCX 20 2 D E A Yes 1 Oil, fuel: No. 2 OTW 33 D D/E A Yes 1 Oil, fuel: No. 4 OFR 33 D D/E A Yes 1 Oil, fue	Naphtha: Stoddard solvent	NSS	33	D	D		A	Yes	1		
Nonane (all isomers), see Alkanes (C6-C9) NAX 31 D D A Yes 1 Nonyl alcohol (all isomers) NNS 20 2 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 (all isomers) OCX 20 2 D E A Yes 1 Octanoic (all isomers) OCX 20 2 D E A Yes 1 Oil, fuel: No. 2 OTW 33 D D/E A Yes 1 Oil, fuel: No. 4 OFR 33 D D/E A Yes 1 Oil, fue	Naphtha: Vamish makers and painters (75%)	NVM	33	D	С		Α	Yes	1		
Nonyl alcohol (all isomers) NNS 20 2 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 (all isomers) OCX 20 2 D E A Yes 1 Octanoic (all isomers) OCX 20 2 D E A Yes 1 Octanoic (all isomers) OCX 20 2 D E A Yes 1 Oil, fuel: No. 2 OTW 33 D D/E A Yes 1 Oil, fuel: No. 4 OFR 33 D D/E A Yes 1 Oil, fuel: No. 6		NAX	31	D	D					<u></u>	
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 Octanoic acid (all isomers) OCX 20 2 D E A Yes 1 Octanoic acid (all isomers) OCX 20 2 D E A Yes 1 Oil, fuel: No. 2 OTW 33 D D/E A Yes 1 Oil, fuel: No. 2 OTW 33 D D/E A Yes 1 Oil, fuel:										······································	
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 Octanoi (all isomers) OCX 20 2 D E A Yes 1 Oil, suel: 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 D/E A Yes 1 Oil, misc: Lubricating OLB		***************************************								**************************************	****
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 Octanoi (all isomers) OCX 20 2 D E A Yes 1 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 Oil, misc: Lubricating OLB 33 D E A Yes 1			·								
Octanoic acid (all isomers) OAY 4 D E A Yes 1 Octanoi (all isomers) OCX 20 2 D E A Yes 1 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 Oil, misc: Diesel ODS 33 D D/E A Yes 1 Oil, misc: Lubricating OLB 33 D E A Yes 1	······································					·					
Octanol (all isomers) OCX 20 2 D E A Yes 1 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 Oil, misc: Diesel ODS 33 D D/E A Yes 1 Oil, misc: Lubricating OLB 33 D E A Yes 1											
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 Oil, misc: Diesel ODS 33 D D/E A Yes 1 Oil, misc: Lubricating OLB 33 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 Oil, misc: Diesel ODS 33 D D/E A Yes 1 Oil, misc: Lubricating OLB 33 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 Oil, misc: Diesel ODS 33 D D/E A Yes 1 Oil, misc: Lubricating OLB 33 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, misc: Diesel ODS 33 D D/E A Yes 1 Oil, misc: Lubricating OLB 33 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, misc: Diesel ODS 33 D D/E A Yes 1 Oil, misc: Lubricating OLB 33 D E A Yes 1			·								
Oil, misc: Crude Oil. 33 D C/D A Yes 1 Oil, misc: Diesel ODS 33 D D/E A Yes 1 Oil, misc: Lubricating OLB 33 D E A Yes 1								····			
Oil, misc: Diesel ODS 33 D D/E A Yes 1 Oil, misc: Lubricating OLB 33 D E A Yes 1											·
Oil, misc: Lubricating OLB 33 D E A Yes 1			~~~~~								
					·	····			·		
Oil misc: Residual ODI 23 D E A Voc. 4								Yes			
	Oil, misc: Residual	ORL	33	D	E		Α	Yes	1		
Oil, misc: Turbine OTB 33 D E A Yes 1	***************************************		33	D	E		Α	Yes	1		
alpha-Pinene PIO 30 D D A Yes 1	alpha-Pinene	PIO	30	D	D		Α	Yes	1		



Serial #: C1-0703240 Dated:

29-Oct-07

Certificate of Inspection

Cargo Authority Attachment

Vessel Name: MER 10

Shipyard: Kennedy Construction

Hull #: 110

Official #: 1210469

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Cargo Identifica	ation					Conditions of Carriage						
		1				 	Vapor F	Recovery				
Name beta-Pinene	Chem Code PIP	Compat Group No 30	Sub Chapter D	Grade D	Hull Type	Tank Group A	App'd (Y or N) Yes	VCS Category 1	Special Requirements in 46 CFR 151 General and Mat'ls of	Insp. Period		
Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether	PAG	40	D	Ē		Α	Yes	1	· · · · · · · · · · · · · · · · · · ·			
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	Ç		Α	Yes	1				
n-Propyl acetate	PAT	34	D	C		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				
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	Ð	Đ		Α	Yes	1				
Propylene tetramer	PTT	30	D	D		Α	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		Α	Yes	1				
Tricresyl phosphate (less than 1% of the ortho isomer)	TÇP	34	D	E		Α	Yes	1				
Triethylbenzene	TEB	32	D	E		Α	Yes	1				
Triethylene glycol	TEG	40	D	E		Α	Yes	1				
Triethyl phosphate	TPS	34	D	Е		Α	Yes	1				
Trimethylbenzene (all isomers)	TRE	32	D	{D}		Α	Yes	1				
Trixylenyl phosphate	TRP	34	D	E		Α	Yes	1				
Undecene	UDC	30	D	D/E		Α	Yes	1				
1-Undecyl alcohol	UND	20	D	E		Α	Yes	1				
Xylenes (ortho-, meta-, para-)	XLX	32	D	D		Α	Yes	1				



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

C1-0703240

Dated: 29-Oct-07

Certificate of Inspection

Cargo Authority Attachment

Vessel Name: MER 10 Official #: 1210469

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Shipyard: Kennedy Const

Hull #: 110

Explanation of terms & symbols used in the Table:

Cargo Identification

Chem Code

Compatability Group No.

Note 1

Note 2

Subchanter Subchapter D Subchapter O

Note 3

Grade

A, B, C Note 4

NA

Hull Type

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.

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.

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 part. For additional compatibility information, contact Commandant (CG-3PSO-3), U.S. Coast Guard, 2100 Second Street, SW, Washington, DC 20593-0001. Telephone

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

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

Flammable liquid cargoes, as defined in 46 CFR 30-10.22. Combustible liquid cargoes, as defined in 46 CFR 30-10.15.

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

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

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

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

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

Designed to carry products of sufficient 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 Recove 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 yapons of the specified loange 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 Recover 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.

(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 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.