

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

Certification Date: 17 Aug 2023 Expiration Date: 17 Aug 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 Ce	ertificate of Inspection	n is issued under the pro- d said vessel of the origin	vision of Title 46 Uni	ted States Code, S	Section 399, in lieu of	the regular certificate of	of inspection, and shall be in force only until the n the date of inspection.
Vessel Name		Offi	icial Number	IMO N	Number	Call Sign	Service
MER 10		12	210469				Tank Barge
Hailing Port	T ./		Hull Material	H	forsepower	Propulsion	
HOUSTON,	IX		Steel				
UNITED STA	ATES						
UNITED 317	AILS						
Place Built	NI TV		Delivery Date	Keel Laid Date	Gross Tons	Net Tons	OWT Length
GALVESTO	N, IX			15Oct2007	7 R-764	R-764	R-200.0
UNITED STA	ATES				I-	I-	148
,							
DOI:				7.25			
Owner MERICHEM	COMPANY				erator DRV INII ANI⊓	MARINE, LP	
544 Old Spar					350 MARKE		
Houston, TX	77023				HANNELVIE		
UNITED STA	ATES			U	NITED STATI	ES	
0 Certified Lif	feboatmen, 0	ed with the follow Certified Tanker	wing licensed rmen, 0 HSC	and unlicen Type Ratin	sed Personne g, and 0 GMD	el. Included in v OSS Operators.	which there must be
0 Masters		0 Licensed Mates	0 Chief	Engineers	. 0	Oilers	
0 Chief Mate	S	0 First Class Pilo	ts 0 First	Assistant Engir	neers		
0 Second Ma	ates	0 Radio Officers	0 Seco	nd Assistant E	ngineers		
0 Third Mate	-	0 Able Seamen	0 Third	Assistant Eng	ineers		
0 Master Firs		0 Ordinary Seam		sed Engineers			
0 Mate First 0		0 Deckhands		fied Member E	-	729 W 3045	
In addition, the Persons allow		carry 0 Passen	igers, 0 Othe	r Persons in	crew, 0 Pers	ons in addition t	to crew, and no Others. Total
Route Perm	nitted And Co	onditions Of Op	eration:				
Lakes,	Bays, and	Sounds plu	us Limited	d Coastw	ise		
	- 20						
Florida.	r weather of	nly, not more	than twelve	(12) miles	s from shore	between St.	Marks and Carrabelle,
This vessel	has been gra	anted a fresh	water servi	ce examinat	tion interva	l per 46 CFR	31.10-21(a)(2). If this
vessel is op salt water i	perated in sa intervals pe	alt water more r 46 CFR 31.10	than 6 mon	ths in any	12 month pe	riod, the ves	sel must be inspected using riting as soon as this
change in st			==3,=2,1=2,=				and the same of the same
****	/T DAGE 50						
		R ADDITIONA					
With this Insp	ection for Cer	tification having	been comple	eted at Port	Arthur, TX, U	NITED STATES	S, the Officer in Charge, Marine
laws and the	arine Safety U	Jnit Port Arthur outlations prescrib	certified the v	essel, in all	respects, is in	conformity with	the applicable vessel inspection
.avio and the		eriodic/Re-Inspe			This certifica	te issued had	
Date	Zone	A/P/R	Signatu	re			the track
Date	20116	/VF/IX	Jigilalu	10	D. I	. INAGAKI, 🔫	ria Uassa ay direction

Officer in Charge, Marine Inspection

Inspection Zone

Marine Safety Unit Port Arthur



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

Certification Date: 17 Aug 2023 **Expiration Date:** 17 Aug 2024

Temporary Certificate of Inspection

Vesse Name MER 10

---Hull Exams---

Exam Type

Next Exam

Last Exam

Prior Exam

DryDock

30Apr2028

10Jul2018

23Apr2008

Internal Structure

31Aug2028

17Auq2023

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

Nο

Nο

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	Maximum Draft	Max Density	Route Description
	(short tons)	(ft/in)	(lbs/gal)	
II	1549	9ft 4in	13.6	
411	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.

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.

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

--- Inspection Status ---



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

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Temporary Certificate of Inspection

Vessel Name: MER 10

Cargo Tanks						
	Internal Exam	1		External Exa	am	
Tank Id	Previous	Last	Next	Previous	_ast	Vext
#1	23Apr2008	10Jul2018	30Apr2028	-	-	-
#2	23Apr2008	10Jul2018	30Apr2028	-	•	•
#3	23Apr2008	10Jul2018	30Apr2028	-	•	-
			Hydro Test			
Tank Id	Safety Valves	s	Previous	Last	Vext	
#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



Serial #: C1-0703240 Dated: 29-Oct-07

Certificate of Inspection

Cargo Authority Attachment

Vessel Name: MER 10 Official #: 1210469

Shipyard: Kennedy Construction

Hull #: 110

Tank Group Information	Cargo I	Identificati	on		Cargo		Tanks		Carg Tran		Enviror	nmental I	Fire	Special Require	ments	1	T
Trik Grp Tanks in Group	Density	Press.	Temp.	Hull Typ	Seq	-	Vent	Gauge	Pipe Class	Cont	Tanks	Handling Space	Protection Provided	General	Materials of Construction	Elec Haz	Temp
A #1-3C	13.6	Atmos.	Amb.	U	1ii 2ii	Integral Gravity	PV	Closed	U	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							Condi	tions of Carriage	
		T					Vapor R			7
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	App'd (Y or N)	VCS Calegory	Special Requirements in 46 CFR 151 General and Mat'ls of	Insp. Period
Authorized Subchapter O Cargoes										
Acetonitrile	ATN	37	0	С	Ш	Α	No	N/A	No	G
Acrylic acid	ACR	42	0	D	111	Α	No	N/A	50-70(a), .50-73, 50-81, .58-1(a)	G
Acrylonitrile	ACN	152	0	C	11	A	No	N/A	50-70(a), .55-1(e)	G
Adiponitrile	ADN	37	0	E	11	A	Yes	1	No	G
Alkyl(C7-C9) nitrates	AKN	34 2	0	NA	111	Α	No	N/A	.50-81, .50-86	G
Aminoethylethanolamine	AEE	8	0	E	III	A	Yes	1	.55-1(b)	G
Anthracene oil (Coal tar fraction)	AHO	33	0	NA	11	A	No	N/A	No	G
Benzene	BNZ	32	0	C	111	A	Yes	1	.50-60	G
Benzene or hydrocarbon mixtures (having 10% Benzene or more)	внв	32 ²	0	C	111	A	Yes	<u>'</u>	50-60	G
Benzene or hydrocarbon mixtures (containing Acetylene and 10% Benzene or more)	ВНА	32 ²	0	С	111	A	Yes	1	50-60, 56-1(b), (d), (f), (g)	G
Benzene, Toluene, Xylene mixtures (10% Benzene or more)	BTX	32	0	B/C	Ш	A	Yes	1	50-60	G
Butyl acrylate (all isomers)	BAR	14	0	D	Ш	A	No	N/A	50-70(a), .50-81(a), (b)	G
Butyl methacrylate	ВМН	14	0	D	Ш	A	No	N/A	.50-70(a), .50-81(a), (b)	G
Butyraldehyde (all isomers)	BAE	19	0	С	111	A	Yes	1	.55-1(h)	
Camphor oil (light)	СРО	18	0	D	11	A	No	N/A	No	G
Carbon tetrachloride	CBT	36	0	NA	111	A	No	N/A	No	G
Caustic potash solution	CPS	5 2	0	NA	10	A	No	N/A	.50-73, .55-1(j)	G
Caustic soda solution	CSS	52	0	NA	10	A	No	N/A	.50-73, .55-1(j)	G
Chemical Oil (refined, containing phenolics)	COD	21	0	E		A	No	N/A	.50-73	G
Chlorobenzene	CRB	36	0	D	111	A	Yes	1	No	G
Chloroform	CRF	36	0	NA	111	A	No	N/A	No	G
Coal tar naphtha solvent	NCT	33	0	D	ill	A	Yes	1	50-73	G
Creosote	CCW		0	E	III	A A	Yes	1	No	G
Cresols (all isomers)	CRS	21	0	E	III	Α	Yes	1	No	G
Cresylate spent caustic	CSC	5	0	NA	10	A .	No	N/A	50-73, ,55-1(b)	G
Cresylic acid tar	CRX		0	E	111	A	Yes	1	.55-1(l)	G
Crotonaldehyde	CTA	192	0	c	11	A	No	N/A	.55-1(h)	G
Crude hydrocarbon feedstock (containing Butyraldehydes and Ethylpropyl acrolein)	CHG		0	С	Ш	A	No	N/A	No	G
Cyclohexanone	ССН	18	0	D	III	A	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	1	50-60, .56-1(b)	G
iso-Decyl acrylate	IAI	14	0	E	III	A	No	N/A	50-70(a), 50-81(a), (b), 55-1(c)	G
Dichlorobenzene (all isomers)	DBX	36	0	E	ш.	A	No	N/A	56-1(a), (b)	G
1,1-Dichloroethane	DCH	36	Ω	C	III	A	Yes	1	No No	G



Certificate of Inspection

Cargo Authority Attachment

Vessel Name: MER 10

Official #: 1210469

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Shipyard: Kennedy Construction

Serial #: C1-0703240

Cargo Identification							C	ondit	ions of Carriage	
	1			T 1			Vapor R	ecovery		
Name		Compat Group No	Sub Chapte		Hull Type	Tank Group A	App'd (Y or N) Yes	VCS Category	Special Requirements in 46 CFR 151 General and Mat'ls of 55-1(f)	Insp. Period G
,2'-Dichloroethyl ether	DEE	41	0	D	111	A	No	N/A	No	G
ichloromethane	DCM	36	0	NA	- 111	A	No	N/A	.55-1(b)	G
4-Dichlorophenoxyacetic acid, dimethylamine salt solution (70% or ess)	DDA		0	LFG			Accessed to the second	N/A	No	G
,1-Dichloropropane	DPB	36	0	С	111	A	No		No	G
,2-Dichloropropane	DPP	36	0	С	111	Α	No	N/A	No	G
,3-Dichloropropane	DPC	36	0	С	111	Α.	No	N/A	No	G
,3-Dichloropropene	DPU	15	0	D	- 11	A	No	N/A	No	G
pichloropropene, Dichloropropane mixtures	DMX	15	0	С	11	A	Yes	1	55-1(c)	G
piethanolamine	DEA	8	0	E	- 01	A	Yes		.55-1(c)	G
Piethylamine	DEN	7	0	С	111	A	No	N/A	.55-1(c)	G
iethylenetriamine	DET	72	0	E	111	A	Yes	***	.55-1(c)	G
Diisobutylamine	DBU	7	0	D	Ш	A	No	N/A		G
iisopropanolamine	DIP	8	0	Е	111	A			55-1(c)	G
iisopropylamine	DIA	7	0	C	Н	Α		N/A	55-1(c)	G
I,N-Dimethylacetamide	DAC	10	0	E	Ш	Α		N/A		G
Dimethylformamide	DMF	10	0	D	111		-	the state of the s	55-1(e)	G
Di-n-propylamine	DNA	7_	0	С	- []	A		N/A		G
Dodecyldimethylamine, Tetradecyldimethylamine mixture	DOT	7	0	E	111	A		N/A		G
thanolamine	MEA	. 8	0	E	Ш	Α	Yes		.55-1(c)	- 22
Ethyl acrylate	EAC	14	0	С	111	А	. No	N/A		G
Ethylamine solution (72% or less)	EAN	7	0	Α	11	Α	No	N/A		G
N-Ethylbutylamine	EBA	. 7	0	D	111	Α	. No	N/A	The second secon	G
V-Ethylcyclohexylamine	ECC	7	0	D	111	Α	Yes	s 1	.55-1(b)	G
Ethylene cyanohydrin	ETC	20	0	E	111	I A	Yes	s 1	No	G
Ethylenediamine	EDA	72	0	D	111	I A	Yes	s 1	.55-1(c)	G
Ethylene dichloride	EDC	36 2	0	С	11	I A	Yes	s 1	No	G
Ethylene glycol hexyl ether	EGH	4 40	0	E	H	l <i>F</i>	No No	N/A		G
Ethylene glycol monoalkyl ethers	EGO	2 40	0	D/E	: 11	1 <i>A</i>	Ye:	s 1	No	G
Ethylene glycol propyl ether	EGF	40	0	E	II	1 /	Ye:	s 1	No	G
2-Ethylhexyl acrylate	EAI	14	0	E	11	1 /	A No	N/A	(a), (b) .50-70(a), .50-81(a), (b)	G
The state of the s	ETN	Л 14	0	D/E	E 11	1 /	A No	N/A	4 50-70(a)	G
Ethyl methacrylate	EPA	19	2 0	Е	11	1 /	A Ye	s 1	No	G
2-Ethyl-3-propylacrolein	FM:	S 19	2 0	D/E	E 11	1 /	4 Ye	s 1	55-1(h)	G
Formaldehyde solution (37% to 50%)	FF.		C	D	11	ll i	A Ye	s 1	.55-1(h)	G
Furfural (FOW as less)	GT		C	N/	. 1	11 .	A No	N/A	A No	G
Glutaraldehyde solution (50% or less)	HM		C	E	- 1	II .	A Ye	es 1	55-1(c)	G
Hexamethylenediamine solution	HFI		C		i	ll .	A Ye	es 1	50-70(a), 50-81(a), (b)	G
Hydrocarbon 5-9	IPR		C				A No	o N/	A 50-70(a), 50-81(a), (b)	0
Isoprene	IPN		0		1	11	A No	o N/	A .50-70(a), .55-1(c)	G
Isoprene, Pentadiene mixture	MS		2 () D	- 1	11	A Ye	es 1	No	C
Mesityl oxide	MA	-					A No	o N/	A 50-70(a), 50-81(a), (b)	C
Methyl acrylate	MC				-		A Ye	es 1	No	C
Methylcyclopentadiene dimer	ME	2012		-			A Ye		.55-1(e)	(
2-Methyl-5-ethylpyridine	MN						A N			(
Methyl methacrylate	ME	-					A N		/A 55-1(c)	(
2-Methylpyridine	MS	-) D			A N	100	/A 50-70(a), 50-81(a), (b)	(
alpha-Methylstyrene	MF	W0920) D	-			es 1		
Morpholine	NF			ם		111	2000	es 1		
1- or 2-Nitropropane	PD) A		111	A N		/A .50-70(a), 50-81	(
1,3-Pentadiene	PE		-	O N		111			/A No	



Serial #: C1-070324

Certificate of Inspection

Cargo Authority Attachment

Vessel Name: MER 10

Shipyard: Kennedy Construction

Hull #: 110

Official #: 1210469

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Cargo Identification	n						(Condi	tions of Carriage	
					-		Vapor R			
Name Polyethylene polyamines	Chem Code PEB	Compat Group No 72	Sub Chapter O	Grade E	Hull Type III	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(e)	Insp. Period G
so-Propanolamine	MPA	8	0	E	111	A	Yes	1	55-1(c)	G
so-Propylamine	IPP	7	0	A	II.	A	No		.55-1(c)	G
Pyridine	PRD	9	0	c	III	A	Yes	N/A	.55-1(e)	G
Sodium acetate, Glycol, Water mixture (3% or more Sodium Hydroxide)	SAP		0		III	A	No	N/A	.50-73, .55-1()	G
Sodium chlorate solution (50% or less)	SDD	0 1,2	0	NA	Ш	Α	No	N/A	50-73	G
Sodium hypochlorite solution (20% or less)	SHQ	5	0	NA	111	A	No	N/A	50-73, 56-1(a), (b)	G
Sodium sulfide, hydrosulfide solution (H2S 15 ppm or less)	SSH	0 1,2	0	NA	111	A	Yes	1	.50-73, .55-1(b)	G
Sodium sulfide, hydrosulfide solution (H2S greater than 15 ppm but ess than 200 ppm)	SSI	0 1.2	0	NA	111	A	No	N/A	50-73, 55-1(b)	G
Sodium sulfide, hydrosulfide solution (H2S greater than 200 ppm)	SSJ	0 1,2	0	NA	П	A	No	N/A	50-73, 55-1(b)	G
Sodium thiocyanate solution (56% or less)	STS	0 1.2	0	NA	Ш	Α	No	N/A	58-1(a)	G
Styrene (crude)	STX		0	D	Ш	A	No	N/A		G
Styrene monomer	STY	30	0	D	111	A	No	N/A	50-70(a), .50-81(a), (b)	G
1,1,2,2-Tetrachloroethane	TEC	36	0	NA	III	A	No	N/A	No	G
Fetraethylenepentamine	TTP	7	0	E	10	A	Yes	1	55-1(c)	G
Tetrahydrofuran	THF	41	0	C	111	A	Yes	1	50-70(b)	G
1,2,4-Trichlorobenzene	TCB	36	0	E	10	A	Yes	1	No	G
1,1,2-Trichloroethane	TCM	36	0	NA	10		Yes	1	.50-73, 56-1(a)	G
Frichloroethylene	TCL	36 ²	0	NA	III	A	Yes	1	No No	G
1,2,3-Trichloropropane	TCN	36	0	E	11				.50-73, .56-1(a)	G
Friethanolamine	TEA	8 2	0	E	10	Α .	No	N/A	55-1(b)	G
Triethylamine	TEN	7	0	C	111	A	Yes	1	55-1(e)	G
Triethylenetetramine	TET	72	0	E	111	A	No Yes	N/A	55-1(b)	G
Jrea, Ammonium nitrate solution (containing more than 2% NH3)	UAS	6	0	NA	111				56-1(b)	G
/inyl acetate	VAM	13	0	C	III	Α	No	N/A	.50-70(a), 50-81(a), (b)	G
/inyl neodecanate	VND	13	0	E	III	A A	No No	N/A N/A	50-70(a), 50-81(a), (b)	G
	ANNUAL PROPERTY.	10			111		140	IVA	11 (10), 30 0 (2), (0)	
ubchapter D Cargoes Authorized for Vapor Contr										
Acetone	ACT	18 ²	D	С		Α	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		Α	Yes	1		
Brake fluid base mixtures (containing Poly(2-8)alkylene(C2-C3) glycols, Polyalkylene(C2-C10) glycol monoalkyl(C1-C4) ethers, and heir 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		A	Yes	1		
Butyl alcohol (n-)	BAN		D	D		A	Yes	1	* Posture a	
Butyl alcohol (sec-)	BAS		D	C		A	Yes	1	1000	
Butyl alcohol (tert-)	BAT		D	С		A	Yes	1	14	-
Butyl benzyl phthalate	BPH	34	D	E		A	Yes	1		400 T CONTRACTOR
Butyl toluene	BUE	32	D	D		A	Yes	1		
Caprolactam solutions	CLS	22	D	E		A	Yes	1	1,AY,	
Cyclohexane	CHX	31	D	C		A	Yes	1	- Company of the Comp	
The state of the s	1.300000000		D	E			Yes	1		
Cyclohexanol										
Cyclohexanol p-Cymene	CHN	32	D	D		A	Yes	1		



Serial #: C1-0703240 Dated: 29-Oct-07

Certificate of Inspection

Cargo Authority Attachment

Vessel Name: MER 10

Official #: 1210469

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Shipyard: Kennedy Construction

Cargo Identification	on								tions of Carriage	
Name n-Decaldehyde	Chem Code DAL	Compat Group No 19	Sub Chapter D	Grade E	Hull Type	Tank Group A	App'd (Y or N) Yes	Recovery VCS Category 1	Special Requirements in 46 CFR 151 General and Mat'ls of	Insp.
Decene	DCE	30	D	D		Α	Yes	1		
Decyl alcohol (all isomers)	DAX	20 ²	D	E	***************************************	A	Yes	1		
n-Decylbenzene, see Alkyl(C9+)benzenes	DBZ	32		E		A	Yes	1		
Diacetone alcohol	DAA	20 2	D	D			Yes	1	- A	
	DPA	34	D	E		A	Yes	1		
ortho-Dibutyl phthalate	DEB	32	D	D		A	Yes	1		
Diethylbenzene	DEG	40 ²	D	E		A	Yes	1	are an extraorder	
Diethylene glycol	DBL	30	D	C		A	Yes			
Diisobutylene								1		
Diisobutyl ketone	DIK	18	D	D		A	Yes	1		
Diisopropylbenzene (all isomers)	DIX	32	D	E		Α	Yes	1		
Dimethyl phthalate	DTL	34	D	E		A	Yes	1	a in the same and	
Dioctyl phthalate	DOP	34	D	E		A	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	E		Α	Yes	1		
Diphenyl ether	DPE	41	D	{E}		A	Yes	1		
Dipropylene glycol	DPG	40	D	E		A	Yes	1		
Distillates: Flashed feed stocks	DFF	33	D	E		Α	Yes	1	Valence	
Distillates: Straight run	DSR	33	D	Е		Α	Yes	1		-
Dodecene (all isomers)	DOZ	30	D	D		Α	Yes	1		
Dodecylbenzene, see Alkyl(C9+)benzenes	DDB	32	D	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		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	337897112	
Ethyl butyrate	EBR	34	D	D		A	Yes	1		-
Ethyl cyclohexane	ECY	31	D	D		Α	Yes	1	***************************************	
Ethylene glycol	EGL	20 2	D	E	-	Α	Yes	1		
Ethylene glycol butyl ether acetate	EMA	34	D	E		Α	Yes	1	11	
Ethylene glycol diacetate	EGY	34	D	E		Α	Yes	1	The saidher shi	
Ethylene glycol phenyl ether	EPE	40	D	E		A	Yes	i	THE RESERVE OF SHIPLE STATE SHIPLE STATE SHIPLE STATE SHIPLE STATE SHIPLE STATE SHIPLE STATE S	
Ethyl-3-ethoxypropionate	EEP	34	D	D		A	Yes	1		
	EHX	20	D	E		A	Yes	1		
2-Ethylhexanol	EPR	34	D	C		A	Yes	1		
Ethyl propionate	ETE	32	D	D		A	Yes	1	THE	
Ethyl toluene							and the same of the			
Formamide	FAM	10	D	E		A	Yes	1		
Furfuryl alcohol	FAL	20 2	D	E		A	Yes	1	Title (Marie Control of Control o	
Gasoline blending stocks: Alkylates	GAK		D	A/C		A	Yes	1		
Gasoline blending stocks: Reformates	GRF		D	A/C		Α	Yes	1		
Gasolines: Automotive (containing not over 4.23 grams lead per gallon)	GAT	33	D	С		A	Yes	1		
Gasolines: Aviation (containing not over 4.86 grams of lead per gallon)	GAV		D	С		A	Yes	1		
Gasolines: Casinghead (natural)	GCS		D	A/C		Α	Yes	1		
Gasolines: Polymer	GPL	33	D	A/C		Α	Yes	1		
Gasolines: Straight run	GSR	33	D	A/C		Α	Yes	1		

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Cargo Authority Attachment

Vessel Name: MER 10
Official #: 1210469

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Shipyard: Kennedy Construction

Cargo Identifica	ation							Condit	ions of Carriage	
	Chem	Compat	Sub		Hull	Tank	Vapor App'd	Recovery VCS	Consid Danier and the OFF	
Glycerine	Code GCR	Group No	Chapter	Grade E	Туре	Group	(Y or N) Yes		Special Requirements in 46 CFR 151 General and Mat'ls of	Insp. Period
Heptane (all isomers), see Alkanes (C6-C9) (all isomers)	HMX	31	D	С		Α	Yes	1		
Heptanoic acid	HEP	4	D	E		A	Yes	1		
Heptanol (all isomers)	HTX	20	D	D/E		A	Yes	1	The transfer of the transfer o	
Heptyl acetate	HPE	34	D	E	_	A	Yes	1		
Hexane (all isomers), see Alkanes (C6-C9)	HXS	31 2	D	B/C		A	Yes	1		
Hexanoic acid	НХО	4	D	E		A	Yes	1		
Hexanol	HXN	20	D	D		Α	Yes	1		
Hexylene glycol	HXG	20	D	E	100	A	Yes	1		
Isophorone	IPH	18 ²	D	Ē		Α	Yes	1		
Jet fuel: JP-4	JPF	33	D	E		A	Yes	1		
Jet fuel: JP-5 (kerosene, heavy)	JPV	33	D	D		A	Yes	1	The state of the s	
Kerosene	KRS	33	D	D		A	Yes			4
Methyl acetate	MTT	34	D	D				1		
Methyl alcohol	MAL	20 2	D			Α	Yes	1		
Methylamyl acetate	MAC		1000	С	-	Α	Yes	1		
Methylamyl alcohol	and an artist of the same	34	D	D		Α .	Yes	1		
	MAA	20	D	D		A	Yes	1		
Methyl amyl ketone	MAK	18	D	D		Α	Yes	1	1411111111111	
Methyl tert-butyl ether	MBE	41 2	D	С		Α	Yes	1		
Methyl butyl ketone	MBK	18	D	С	.urse-	Α	Yes	1	A STATE OF THE PARTY OF THE PAR	
Methyl butyrate	MBU	34	D	С		Α	Yes	1		
Methyl ethyl ketone	MEK	18 2	D	С		A	Yes	1		
Methyl heptyl ketone	MHK	18	D	D		Α	Yes	1		
Methyl isobutyl ketone	MIK	18 2	D	С		Α	Yes	1		
Methyl naphthalene (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	100 - 41	
Naphtha: Heavy	NAG	33	D	#		Α	Yes	1	1500-00-11-00-00-0	
Naphtha: Petroleum	PTN	33	D	#		Α	Yes	1		
Naphtha: Solvent	NSV	33	D	D		Α	Yes	1	7,000,000	
Naphtha: Stoddard solvent	NSS	33	D	D		Α	Yes	1		
Naphtha: Varnish makers and painters (75%)	NVM	33	D	С		Α	Yes	1		
Nonane (all isomers), see Alkanes (C6-C9)	NAX	31	D	D		Α	Yes	1		
Nonyl alcohol (all isomers)	NNS	20 2	D	E		Α	Yes	1		-
Nonyl phenol	NNP	21	D	E		Α	Yes	1		and an
Nonyl phenol poly(4+)ethoxylates	NPE	40	D	E		A	Yes	1	The state of the s	
Octane (all isomers), see Alkanes (C6-C9)	OAX	31	D	С		Α	Yes	1	- Committee - Comm	
Octanoic acid (all isomers)	OAY	4	D	E		Α	Yes	1	The state of the s	-
Octanol (all isomers)	OCX	20 2	D	E		Α	Yes	1	The second secon	
Oil, fuel: No. 2	OTW	33	D	D/E		A	Yes	1		
Oil, fuel: No. 2-D	OTD	33	D	D		A	Yes			
Oil, fuel: No. 4	OFR	33	D	D/E		A	Yes	1		The same of the sa
Oil, fuel: No. 5	OFV	33	D .	D/E		_				
Oil, fuel: No. 6	OSX	33	D .	193	-	A	Yes		- 10110	
Oil, misc: Crude	OIL	33	D	E	orale or const	Α	Yes	1		
Oil, misc: Diesel	ODS	33	wiel/edg	C/D		Α	Yes			
Oil, misc: Lubricating			D	D/E		Α.	Yes			
Oil, misc. Eublicating Oil, misc. Residual	OLB	33	D	E	59000	A	Yes	1		
The state of the s	ORL	33	D	E		A	Yes	1		
Oil, misc: Turbine	ОТВ	33	D	E		Α	Yes	1		
alpha-Pinene	PIO	30	D	D		Α	Yes	1		



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Cargo Authority Attachment

Vessel Name: MER 10

Shipyard: Kennedy

Construction

Official #: 1210469

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Cargo Identifica	ition				1			Condi	tions of Carriage	
Name beta-Pinene	Chem Code PIP	Compat Group No 30	Sub Chapter D	Grade D	Hull Type	Tank Group A	Vapor A App'd (Y or N) Yes	Recovery VCS Category 1	Special Requirements in 46 CFR 151 General and Mat'ls of	Insp.
Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether	PAG	40	D	E		Α	Yes	1		
Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether acetate	PAF	34	D	Е		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		Α	Yes	1		- 107
n-Propyl acetate	PAT	34	D	С		Α	Yes	-1		
iso-Propyl alcohol	IPA	20 ²	D	С		Α	Yes	1	2212/5/2011	
n-Propyl alcohol	PAL	20 ²	D	С		Α	Yes	1	THE STATE OF THE S	
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	Е		Α	Yes	1		
Propylene glycol methyl ether acetate	PGN	34	D	D		Α	Yes	1		
Propylene tetramer	PTT	30	D	D		Α	Yes	1		
Sulfolane	SFL	39	D	E		Α	Yes	1		
Tetraethylene glycol	TTG	40	D	E		Α	Yes	11	Section of the sectio	
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)	TCP	34	D	E		Α	Yes	1	*	
Triethylbenzene	TEB	32	D	Ε		Α	Yes	1		
Triethylene glycol	TEG	40	D	Е		Α	Yes	1		
Triethyl phosphate	TPS	34	D	E		Α	Yes	1		
Trimethylbenzene (all isomers)	TRE	32	D	{D}		Α	Yes	1		
Trixylenyl phosphate	TRP	34	D	E	e constitution	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		



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Dated

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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

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.

Chem Code

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 Note 2

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 art. For additional compatibility information, contact Commandant (CG-3PSO-3), U.S. Coast Guard, 2100 Second Street, SW, Washington, DC 20593-0001. Telephone (202) 372-1425.

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

Subchapter Subchapter D Subchapter O Note 3

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

Those flammable and combustible liquids listed in 46 CFR Table 30,25-1.

Those hazardous cargoes listed in 46 CFR Table 151,05 and 46 CFR Part 153 Table 2.

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

The cargo classification assigned to each flammable or combustible liquid. Grades inside of "{ }" indicate a provisional assignment based upon literature sources which were not verified by manufacturers data. The Person-in-Charge shall verify the cargo grade based on Manufacturers data and ensure that the barge is authorized for carriage of A, B, C Flammable liquid cargoes, as defined in 46 CFR 30-10.22 D, E Note 4

Combustible liquid cargoes, as defined in 46 CFR 30-10.15. The flammability/combustibility grade of these cargoes may vary depending upon the flashpoint and Reid vapor pressure. The Person-in-Charge shall verify the cargo grade based on Manufacturers data and ensure that the barge is authorized for carriage of that grade of cargo.

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

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

Hull Type

NA

NA

The required barge hull classification for carriage of the specified Subchapter O hazardous material cargo, see 46 CFR 151.10-1. Designed to carry products which require significant preventive measures to preclude the uncontrolled release of the cargo. See 46 CFR 151.10-1(b)(1).

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

Designed to carry products of sufficeint hazard to require a moderate degree of control. See 46 CFR 151.10-1(b)(4). Not applicable to barges certificated under Subchapter D.

Conditions of Carriage

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

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

Conditions of Carriage

Tank Group Vapor Recovery Approved (Y or N)

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: Category 1

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 3.53 and 46 CFR 39. The cargo tank venting system calculations (46 CFR 39.20-11) and the pressure drop calculations (46 CFR 39.30-1(b)) must use appropriate friction factors, vapor densities and vapor growth rates.

Category 2

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

Category 3

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

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 1cargoes. Consult the Marine Safety Center's VCS Guidelines for further information. This requirement is in addition to the requirements of Category 1.

Category 6

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

Category 7

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

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