

Certification Date: 17 Jan 2025 Expiration Date: 17 Jan 2030

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.

Vessel Name		Official Number	IMO Num	ber	Call Sign	Service	
FMT 1410		1299465				Tank Ba	arge
Hailing Port		I I all Billion and all					
NEW ORLEANS, LA		Hull Material	Horse	epower	Propulsion		
LINUTED OTATEO		Steel					
UNITED STATES							
Place Built		Delivery Date	Keel Laid Date	Gross Tons	Net Tons	DWT	Length
CARUTHERSVILLE, MO		03Dec2019	15Nov2019	R-735	R-735		R-200.0
UNITED STATES				l-	I-		1-0
Owner			Operato				
AMERICAN INLAND MAR	RINE LLC		•	, INDUSTRII	ES, LLC		
3838 NORTH CAUSEWA	Y BLVD STE	3335		FIFTH ST.			
METAIRIE, LA 70002 UNITED STATES				DEVILLE, I ED STATE			
5 <u>2</u> 5			01111	LDOIMIL	J		
This vessel must be manne	ed with the foll	lowing licensed	and unlicensed	d Personnel	. Included in w	hich there mu	st be
0 Certified Lifeboatmen, 0 0 Masters							
0 Chief Mates	0 Licensed Mat 0 First Class P		Engineers Assistant Enginee		ilers		
0 Second Mates	0 Radio Officer		id Assistant Engiree				
0 Third Mates	0 Able Seamen		Assistant Enginee				
0 Master First Class Pilot	0 Ordinary Sea		ed Engineers				
0 Mate First Class Pilots	0 Deckhands		ied Member Engir	neer			
In addition, this vessel may	carry 0 Passe				ns in addition to	crew, and no	Others. Total
Persons allowed: 0							
Route Permitted And Co	onditions Of C	Operation:					
Lakes, Bays, and	Sounds	•					
Also, in fair weather or Carrabelle, Florida.	nly, limited	coastwise, no	ot more than	twelve (12) miles from	shore betwee	en St. Marks and
This vessel has been gra 21(b); if this vessel is vessel must be inspected	s operated in d using salt	n salt water m	more than six	(6) month	s in anv twel	ve (12) mont	th period, the
change in status occurs.	•						
***SEE NEXT PAGE FO							
With this Inspection for Cer Inspection, Sector New Orle the rules and regulations pr	eans certified	the vessel, in al	ted at New Or Il respects, is in	leans, LA, Un conformity	JNITED STATE with the applic	S, the Office able vessel in	r in Charge, Marine spection laws and
	riodic/Re-Insc		TI-	nie cortificat	o issued by:		-

Zone

A/P/R

Signature

Date

D. VELEZ COMMANDER By

Sector New Orleans

Officer in Charge, Marine Inspection

Inspection Zone



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This tank barge is participating in the Eighth-Ninth Coast Guard District's Tank Barge Streamlined Inspection Program (TBSIP). Inspection activities aboard this barge shall be conducted in accordance with its Tank Barge Action Plan. Inspection issues concerning this barge should be directed to Sector New Orleans OCMI.

---Hull Exams---

Exam Type

Next Exam

Last Exam

Prior Exam

DryDock

31Dec2029

03Dec2019

Internal Structure

31Jan2030

14Jan2025

03Dec2019

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

Authorization:

GRADE "A" AND LOWER AND SPECIFIED HAZARDOUS CARGOES.

Total Capacity

Highest Grade Type Part151 Regulated Part153 Regulated Part154 Regulated

10959

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)
1C	734	13.6
2C	832	13.6
3C	734	13.6

Loading Constraints - Stability

Hull Type	Maximum Load (short tons)	Maximum Draft (ft/in)	Max Density (lbs/gal)	Route Description
Ш	1824	10ft 7in	8.7	R
IN	1896	10ft 11in	9.2	R
LII	1914	11ft Oin	9.6	R
III	1914	11ft Oin	10.0	R
Ш	1933	11ft 1in	10.4	R
ш	1933	11ft 1in	10.8	R
Ш	1933	11ft 1in	11.2	R
III	1933	11ft 1in	11.7	R
III	1896	10ft 11in	12.1	R
III	1896	10ft 11in	12.5	R
111	1896	10ft 11in	12.9	R
111	1878	10ft 10in	13.3	R
Ш	1878	10ft 10in	13.6	R
Ш	1751	10ft 3in	8.7	LBS
Ш	1770	10ft 4in	9.2	LBS
III	1788	10ft 5in	9.6	LBS



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111	1788	10ft 5in	10.0	LBS	
111	1788	10ft 5in	10.4	LBS	
III	1770	10ft 4in	10.8	LBS	
III	1751	10ft 3in	11.2	LBS	
III	1751	10ft 3in	11.7	LBS	
111	1734	10ft 2in	12.1	LBS	
III	1734	10ft 2in	12.5	LBS	
III	1716	10ft 1in	12.9	LBS	
III	1697	10ft 0in	13.3	LBS	
m	1697	10ft 0in	13.6	LBS	
II	1535	9ft 3in	8.7	R	
II	1535	9ft 3in	8.7	LBS	
II	1535	9ft 3in	13.6	R	
Ш	1535	9ft 3in	13.6	LBS	
1	1428	8ft 9in	8.7	R	
ı	1428	8ft 9in	8.7	LBS	
I	1428	8ft 9in	13.6	R	
ı	1428	8ft 9in	13.6	LBS	

Conditions Of Carriage

Per 46 CFR 150.130, the Person in Charge of the vessel is responsible for ensuring that 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 compatibility group numbers from the "COMPAT GRP" column listed in the vessel's CAA.

Only those specified hazardous cargoes named in the vessel's Cargo Authority Attachment (CAA), Serial C1-1903647, dated November 7, 2019, and Grade "A" and lower cargoes may be carried, and then only in the tanks indicated.

When the vessel is carrying cargoes containing greater than 0.5% benzene, the Person In Charge is responsible for ensuring the provisions of 46 CFR 197, Subpart C are applied.

In accordance with 46 CFR Part 39, excluding part 39.4000, this vessel's vapor collection system has been inspected to the plans approved by MSC Letter C1-1903647 dated November 7, 2019 and has been found acceptable for the collection of bulk liquid cargo vapors annotated with "Yes" in the CAA's VCS column of the vessel's Cargo Authority Attachment.

The VCS system has been approved with a pressure side 3 psig P/V valve with Coast Guard Approval 162.017/167/4. The cargo tank top is suitable for a maximum allowable working pressure (MAWP) of 3.5 psi.

In accordance with 46 CFR Part 39.1017 and 39.5001(e) this vessel's VCS has been evaluated and approved for multi-breasted tandem loading with other vessels specifically approved to tandem load with this vessel.

The maximum density of cargo which may be filled to the tank top is 10.0 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.

Note: Per 46 CFR 151.10-15(c)(2) the max. tank weights listed below reflect uniform (within 5%) loading at the deepest draft allowed. When carrying Subchapter O cargoes at shallower drafts, the barge(s) should always be loaded uniformly.

--- Inspection Status ---



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Vessel Name: FMT 1410

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Internal Examinations

Tank ID Previous

Last

Next

Bow

05Nov2019

Cargo Tanks

	Internal Exam			External Exan	n	
Tank Id	Previous	Last	Next	Previous	Last	Next
1C	-	03Dec2019	03Dec2029	•	8	
2C	; *	03Dec2019	03Dec2029	:=>	2	200
3C	-	03Dec2019	03Dec2029	3	=	-
			Hydro Test			
Tank Id	Safety Valves	;	Previous	Last	Next	
1C	-		-	02Dec2019	-	
2C	-		÷	02Dec2019	<u> </u>	
3C	-		-	02Dec2019	5	

--- Fire Fighting Equipment ---

Fire Extinguishers - Hand portable and semi-portable

Quantity

Class Type

2

40-B

END



Certificate of Inspection

Cargo Authority Attachment

Vessel Name: FMT 1410 Official #: 1299465 Shipyard: Arcosa Caruthersville

Dated:

C1-1903647

07-Nov-19

Hull #: 6081-4

Tank Group Information Cargo Identification		ion		Cargo	Tanks			Cargo Transfer		Environmental Control		Fire	Special Requirements				
Tnk Grp Tanks in Group	Density	Press.	Temp.	Huil Typ	Seg Tank	T	Vent	Gauge	Pipe Class	Cont	Tanks	Handling Space	Protection Provided	General	Materials of Construction	Elec Haz	Tem
A #1C, #2C, #3C	13.6	Almos	Amb	I	1ii 2ii	Integral Gravity	PV	Closed	ſ	G-1	NR	NA	Portable	.50-60, .50-70(a), .50-70(b), .50-73, .50-81(a), .50- 81(b),	55-1(b), (c), (e), (f), (h), (j), 56-1(a), (b), (c), (d), (e), (f), (g),	NR	No

- Notes: 1. Under Environmental Control, Tanks, NR means that the tank group is suitable only for those cargoes which require no environmental control in the cargo tanks.
 - 2. Under Environmental Control, Handling Space, NR means that the tank group is suitable only for those cargoes which require no environmental control in the cargo handling space. NA means that the vessel does not have a cargo control space, and this requirement is not applied.
 - 3. Under Electrical Hazard Class, NA means that the tank group is suitable only for those cargoes which have no electrical hazard class requirement. NR means that the vessel has no electrical equipment located in a hazardous location.

List of Authorized Cargoes

Cargo Identification	n					Conditions of Carriage						
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	App'd	lecovery VCS Category	Special Requirements in 46 CFR 151 General and Mat'ls of	Insp. Perio		
Authorized Subchapter O Cargoes												
Sodium acetate solution	SAN	34	D/O 3	#		Α	No	N/A				
Acetonitrile	ATN	37	0	С	111	Α	Yes	3	No	G		
Acrylonitrile	ACN	15 ²	0	С	Ш	Α	Yes	4	.50-70(a), .55-1(e)	G		
Adiponitrile	ADN	37	0	Ε	Ш	Α	Yes	1	No	G		
Alkyl (C7-C9) nitrates	AKN	34 ²	0	NA	Ш	Α	No	N/A	.50-81, .50-86	G		
Aminoethyl ethanolamine	AEE	8	0	Ε	101	Α	Yes	4	.55-1(b)	G		
Ammonium bisulfite solution (70% or less)	ABX	43 2	0	NA	111	Α	No	N/A	.50-73, .56-1(a), (b), (c)	G		
Ammonium hydroxide (28% or less NH3)	AMH	6	0	NA	111	Α	No	N/A	.56-1(a), (b), (c), (f), (g)	G		
Anthracene oil (Coal tar fraction)	AHO	33	0	NA	11	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)	внв	32 ²	0	С	III	Α	Yes	1	,50-60	G		
Benzene or hydrocarbon mixtures (containing Acetylene and 10% Benzene or more)	ВНА	32 ²	0	С	Ш	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	111	Α	Yes	1	.50-60	G		
Butyl acrylate (all isomers)	BAR	14	0	D	111	Α	Yes	2	.50-70(a), 50-81(a), (b)	G		
Butyl methacrylate	вмн	14	0	D	111	Α	Yes	2	.50-70(a), 50-81(a), (b)	G		
Butyraldehyde (all isomers)	BAE	19	0	С	III	Α	Yes	1	.55-1(h)	G		
Camphor oil (light)	CPO	18	0	D	П	Α	No	N/A	No	G		
Carbon tetrachloride	CBT	36	0	NA	Ш	Α	No	N/A	No	G		
Caustic potash solution	CPS	5 2	0	NA	H	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		
Chlorobenzene	CRB	36	0	D	III	Α	Yes	1	No	G		
Chloroform	CRF	36	0	NA	Ш	Α	Yes	3	No	G		
Coal tar naphtha solvent	NCT	33	0	D	Ш	Α	Yes	1	.50-73	G		
Creosote	CCW	212	0	Е	Ш	Α	Yes	1	No	G		
Cresols (all isomers)	CRS	21	0	E	Ш	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	21	0	Е	111	Α	Yes	1	.55-1(1)	G		
Crotonaldehyde	CTA	19 ²	0	С	- 11	A	Yes	4	,55-1(h)	G		
Crude hydrocarbon feedstock (containing Butyraldehydes and Ethylpropyl acrolein)	CHG	19 ²	0	С	Ш	Α	Yes	1	No	G		
Cyclohexanone	ССН	18	0	D	111	Α	Yes	1	.56-1(a), (b)	G		
Cyclohexanone, Cyclohexanol mixture	CYX	18 ²	0	Ε	Ш	Α	Yes	1	.56-1 (b)	G		
Cyclohexylamine	CHA	7	0	D	111	Α	Yes	1	.56-1(a), (b), (c), (g)	G		



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Shipyard: Arcosa Caruthersville

Cargo Identificatio	n					Conditions of Carriage					
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	App'd	Recovery VCS Category	Special Requirements in 46 CFR 151 General and Mat'ls of Construction	Insp. Peñod	
Cyclopentadiene, Styrene, Benzene mixture	CSB	30	0	D	Ш	Α	Yes	1	.50-60, .56-1(b)	G	
iso-Decyl acrylate	1AI	14	0	E	111	Α	Yes	2	.50-70(a), .50-81(a), (b), .55-1(c)	G	
Dichlorobenzene (all isomers)	DBX	36	0	Ε	Ш	Α	Yes	3	.56-1(a), (b)	G	
1,1-Dichloroethane	DCH	36	0	С	Ш	Α	Yes	1	No	G	
2,2'-Dichloroethyl ether	DEE	41	0	D	IL	Α	Yes	1	.55-1(f)	G	
Dichloromethane	DCM	36	0	NA	Ш	Α	Yes	5	No	G	
2,4-Dichlorophenoxyacetic acid, diethanolamine salt solution	DDE	43	0	E	111	Α	No	N/A	,56-1(a), (b), (c), (g)	G	
2,4-Dichlorophenoxyacetic acid, dimethylamine salt solution	DAD	01	,2 0	Α	111	Α	No	N/A	.56-1(a), (b), (c), (g)	G	
2,4-Dichlorophenoxyacetic acid, triisopropanolamine salt solution	DTI	43 2	0	Е	111	Α	No	N/A	.56-1(a), (b), (c), (g)	G	
1,1-Dichloropropane	DPB	36	0	C	BI	Α	Yes	3	No	G	
1,2-Dichloropropane	DPP	36	0	C	10	A	Yes	3	No	G	
1,3-Dichloropropane	DPC	36	0	С	Ш	Α	Yes	3	No	G	
1,3-Dichloropropene	DPU	15	0	D	11	Α	Yes	4	No	G	
Dichloropropene, Dichloropropane mixtures	DMX		0	С		Α	Yes	1	No	G	
	DEA	8	0	E	m	Α	Yes	1	.55-1(c)	G	
Diethanolamine	DEN	7	0	С	111	A	Yes	3	.55-1(c)	G	
Diethylamine		7 2		E	m)	A	Yes	1	.55-1(c)	G	
Diethylenetriamine	DET			D			Yes	3	.55-1(c)	G	
Diisobutylamine	DBU	7	0		III	_ <u>A</u>			.55-1(c)	G	
Diisopropanolamine	DIP	8	0	E	00	A	Yes	1	.55-1(c)	G	
Diisopropylamine	DIA	7	0	С	Ш	A	Yes	3	.56-1(b)	G	
N,N-Dimethylacetamide	DAC	10	0	E		A	Yes	3			
Dimethylethanolamine	DMB		0	D	111	Α .	Yes	1	.56-1(b), (c)	G	
Dimethylformamide	DMF	10	0	D	III	A	Yes	1	.55-1(e)	G	
Di-n-propylamine	DNA		0	С	- 11	Α	Yes	3	.55-1(c)	G	
Dodecyldimethylamine, Tetradecyldimethylamine mixture	DOT	7	0	Е	III	Α	No	N/A	.56-1(b)	G	
Dodecyl diphenyl ether disulfonate solution	DOS	43	0	#	Ш	A	No	N/A	No	G	
EE Glycol Ether Mixture	EEG	40	0	D	Ш	Α	No	N/A	No	G	
Ethanolamine	MEA	8	0	E	111	Α	Yes	1	.55-1(c)	G	
Ethyl acrylate	EAC	14	0	С	Ш	Α	Yes	2	.50-70(a), .50-81(a), (b)	G	
Ethylamine solutions (72% or less)	EAN	7	0	Α	Ш	Α	Yes	6	.55-1(b)	G	
N-Ethylbutylamine	EBA	7	0	D	111	Α	Yes	3	.55-1(b)	G	
N-Ethylcyclohexylamine	ECC	7	0	D	101	Α	Yes	1	.55-1(b)	G	
Ethylene cyanohydrin	ETC	20	0	E	- 111	Α	Yes	1	No	G	
Ethylenediamine	EDA	7 2	0	D	ш	Α	Yes	1	.55-1(c)	G	
Ethylene dichloride	EDC	36 ²	0	С	111	A	Yes	1	No	G	
Ethylene glycol hexyl ether	EGH	40	0	Ε	111	Α	No	N/A	No	G	
Ethylene glycol monoalkyl ethers	EGC	40	0	D/E	Ш	Α	Yes	1	No	G	
Ethylene glycol propyl ether	EGP	40	0	Е	Ш	Α	Yes	1	No	G	
2-Ethylhexyl acrylate	EAI	14	0	E	Ш	Α	Yes	2	.50-70(a), .50-81(a), (b)	G	
Ethyl methacrylate	ETM	14	0	D/E	IH	Α	Yes	2	.50-70(a)	G	
2-Ethyl-3-propylacrolein	EPA	19 ²		E	III	Α	Yes	1	No	G	
Formaldehyde solution (37% to 50%)	FMS			D/E	III	A	Yes	1	.55-1(h)	G	
Furfural	FFA	19	0	D	III	A	Yes		.55-1(h)	G	
Glutaraldehyde solutions (50% or less)	GTA		= 0	NA	111	A	No	N/A		G	
Olutaraluenyue solutions (3070 ol 1655)	HMC		0	E	111	A	Yes	1	.55-1(c)	G	



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Shipyard: Arcosa Caruthersville

Cargo Identification	1							Condi	tions of Carriage	
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	App'd	Recovery VCS Category	Special Requirements in 46 CFR 151 General and Mat'ls of Construction	Insp. Period
						-				
Hexamethyleneimine	НМІ	7	0	С		Α	Yes	1	.56-1(b), (c)	G
Isoprene	IPR	30	0	Α	111	Α	Yes	7	.50-70(a), .50-81(a), (b)	G
Isoprene, Pentadiene mixture	IPN	30	0	В	111	Α	No	N/A	50-70(a), 55-1(c)	G
Kraft pulping liquors (free alkali content 3% or more)(including: Black, Green, or White liquor)	KPL	5	0	NA	III	Α	No	N/A	50-73, 56-1(a), (c), (g)	G
Mesityl oxide	MSO	18 ²	0	D	Ш	Α	Yes	1	No	G
Methyl acrylate	MAM	14	0	С	111	Α	Yes	2	.50-70(a), .50-81(a), (b)	G
Methylcyclopentadiene dimer	MCK	30	0	С	111	Α	Yes	1	No	G
Methyl diethanolamine	MDE	8	0	E	111	Α	Yes	1	,56-1(b), (c)	G
2-Methyl-5-ethyl pyridine	MEP	9	0	Е	Ш	Α	Yes	1	,55-1(e)	G
Methyl methacrylate	MMN	1 14	0	С	III	Α	Yes	2	.50-70(a), .50-81(a), (b)	G
2-Methylpyridine	MPR	9	0	D	Ш	Α	Yes	3	55-1(c)	G
alpha-Methylstyrene	MSR	30	0	D	Ш	A	Yes	2	,50-70(a), .50-81(a), (b)	G
Morpholine	MPL	72	0	D	111	Α	Yes	1	.55-1(c)	G
Nitroethane	NTE	42	0	D	П	Α	No	N/A	.50-81, .56-1(b)	G
1- or 2-Nitropropane	NPM	42	0	D	Ш	Α	Yes	1	.50-81	G
1,3-Pentadiene	PDE	30	0	Α	III	Α	Yes	7	.50-70(a), .50-81	G
Perchloroethylene	PER	36	0	NA	111	Α	No	N/A	No	G
Polyethylene polyamines	PEB	7 2	0	E	Ш	Α	Yes	1	.55-1(e)	G
iso-Propanolamine	MPA	8	0	Ε	III	Α	Yes	1	.55-1(c)	G
Propanolamine (iso-, n-)	PAX	8	0	E	III	Α	Yes	1	.56-1(b), (c)	G
Isopropylamine	IPP	7	0	Α	Ш	Α	Yes	5	.55-1(c)	G
Pyridine	PRD	9	0	С	111	Α	Yes	1	55-1(e)	G
Sodium acetate, Glycol, Water mixture (3% or more Sodium Hydroxide)	SAP	5	0		Ш	Α	No	N/A	.50-73, .55-1(j)	G
Sodium aluminate solution (45% or less)	SAU	5	0	NA	111	Α	No	N/A	.50-73, .56-1(a), (b), (c)	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	Ш	Α	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	Ш	Α	Yes	1	.50-73, .55-1(b)	G
Sodium sulfide, hydrosulfide solution (H2S greater than 15 ppm but less than 200 ppm)	SSI	0 1	² O	NA	Ш	Α	No	N/A	,50-73, ,55-1(b)	G
Sodium sulfide, hydrosulfide solution (H2S greater than 200 ppm)	SSJ	0 1	2 0	NA	ll .	Α	No	N/A	.50-73, .55-1(b)	G
Styrene monomer	STY	30	0	D	Ш	Α	Yes	2	.50-70(a), .50-81(a), (b)	G
1,1,2,2-Tetrachloroethane	TEC	36	0	NA	Ш	A	No	N/A	No	G
Tetraethylene pentamine	ΤΤР	7	0	E	Ш	Α	Yes	1	.55-1(c)	G
Tetrahydrofuran	THF	41	0	С	Ш	Α	Yes	1	.50-70(b)	G
1,2,4-Trichlorobenzene	ТСВ	36	0	Ε	Ш	Α	Yes	1	No	G
1,1,2-Trichloroethane	TCM	36	0	NA	Ш	Α	Yes	1	50-73, 56-1(a)	G
Trichloroethylene	TCL	36 ²	0	NΑ	III	Α	Yes	1	No	G
1,2,3-Trichloropropane	TCN	36	0	Е	П	Α	Yes	3	.50-73, .56-1(a)	G
Triethanolamine	TEA	8 ²	0	Е	Ш	Α	Yes	1	.55-1(b)	G
Triethylamine	TEN	7	0	С	II	Α	Yes	3	.55-1(e)	G
Triethylenetetramine	TET	72	0	E	Ш	Α	Yes	1	.55-1(b)	G
Triphenylborane (10% or less), caustic soda solution	TPB	5	0	NA	III	Α	No	N/A	56-1(a), (b), (c)	G
Trisodium phosphate solution	TSP	5	0	NA	III	Α	No	N/A	.50-73, .56-1(a), (c).	G
Urea, Ammonium nitrate solution (containing more than 2% NH3)	UAS	6	0	NA	Ш	Α	No	N/A	56-1(b)	G



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Shipyard: Arcosa Caruthersville

Cargo Identificatio	n					Conditions of Carriage					
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	App'd	VCS Calegory	Special Requirements in 46 CFR 151 General and Mat'ls of Construction	Insp	
Rame	Code	140	Criapter		1,500	Cioup	(1 0/14)	Catogory	Constitution	ren	
Vanillin black liquor (free alkali content, 3% or more).	VBL	5	0	NA	III	Α	No	N/A	.50-73, .56-1(a), (c), (g)	G	
Vinyl acetate	VAM	13	0	С	101	A	Yes	2	.50-70(a), .50-81(a), (b)	G	
Vinyl neodecanoate	VND	13	0	E	III	Α	No	N/A	.50-70(a), .50-81(a), (b)	G	
Vinyltoluene	VNT	13	0	D	Ш	Α	Yes	2	,50-70(a), 50-81, .56-1(a), (b), (c), (G	
Subchapter D Cargoes Authorized for Vapor Contr			3 29	· ·				000			
Acetone	ACT	18 ²	D	С		Α	Yes	1			
Acetophenone	ACP	18	D	Е		Α	Yes	1_			
Alcohol (C12-C16) poly(20+) ethoxylates	APW	20	D	Е		Α	Yes	1			
Alcohol (C6-C17) (secondary) poly(3-6) ethoxylates	AEA	20	D	E		A	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	4			
Amyl alcohol (iso-, n-, sec-, primary)	AAI	20	D	D		Α	Yes	1			
Benzyl acetate	BZE	34	D	E		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)	BFY	20	D	E		Α	Yes	1			
Butyl acetate (all isomers)	BAX	34	D	D		Α	Yes	1			
Isobutyl alcohol	IAL	20 ²	D	D		Α	Yes	1			
Butyl alcohol (n-)	BAN	20 ²		D		Α	Yes	1			
Butyl alcohol (sec-)	BAS	20 2		С		Α	Yes	1_			
Butyl alcohol (tert-)	BAT	20 2		С		A	Yes	1			
			Don't								
Butyl benzyl phthalate	BPH	34	D	E		A_	Yes	1			
Butyl toluene	BUE	32	D	D		Α	Yes	1.2		2 2	
Caprolactam solutions	CLS	22	D	E		A	Yes	1			
Cycloheptane	CYE	31	D	С		Α	Yes	_ 1			
Cyclohexane	CHX	31	D	С		Α	Yes	1_			
Cyclohexanol	CHN	20	D	E		Α	Yes	1			
Cyclohexyl acetate	CYC	34	D	D		Α	Yes	1			
1,3-Cyclopentadiene dimer (molten)	CPD	30	D	D/E		Α	Yes	2			
Cyclopentane	CYP	31	D	В		Α	Yes	1			
p-Cymene	CMP	32	D	D		Α	Yes	1			
iso-Decaldehyde	IDA	19	D	E		Α	Yes	1			
n-Decaldehyde	DAL	19	D	E		Α	Yes	1			
Decanoic acid	DCO		D	#		A	Yes	1			
Decene Decene	DCE	30	D	D		A	Yes	1			
Decyl alcohol (all isomers)	DAX	20 2		E							
						A	Yes	1			
n-Decylbenzene, see Alkyl(C9+)benzenes	DBZ	32	D	_ E		Α .	Yes	1		-	
Diacetone alcohol	DAA	20 2	D	D		Α	Yes	1			



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Cargo Iden	itification					Conditions of Carriage						
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	App'd	Recovery VCS Category	Special Requirements in 46 CFR 151 General and Mat'ls of Construction	Insp. Period		
Dibutyl phthalate	DPA	34	D	E		Α	Yes	1				
Diethylbenzene	DEB	32	D	D		Α	Yes	1				
Diethylene glycol	DEG	40	2 D	E		Α	Yes	1				
Diisobutylene	DBL	30	D	С		Α	Yes	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	Ε		Α	Yes	1				
Dioctyl phthalate	DOP	34	D	E		Α	Yes	1				
Dipentene	DPN	30	D	D		Α	Yes	1				
Diphenyl	DIL	32	D	D/E		Α	Yes	1				
Diphenyl, Diphenyl ether mixtures	DDC	33	D	Ε		Α	Yes	1				
Diphenyl ether	DPE	41	D	{E}		Α	Yes	4				
Dipropylene glycol	DPG	40	D	E		Α	Yes	1				
Distillates: Flashed feed stocks	DFF	33	D	E		Α	Yes	1				
Distillates: Straight run	DSR		D	E		Α	Yes	1				
Dodecene (all isomers)	DOZ		D	D		Α	Yes					
Dodecylbenzene, see Alkyl(C9+)benzenes	DDB	32	D	E		A	Yes	a				
2-Ethoxyethyl acetate	EEA	34	D	D		Α	Yes	1				
Ethoxy triglycol (crude)	ETG	40	D	Е		Α	Yes					
Ethyl acetate	ETA	34	D	С		A	Yes					
Ethyl acetoacetate	EAA	34	D	E		Α	Yes					
Ethyl alcohol	EAL	20		С		A	Yes					
Ethylbenzene	ETB	32	D	С	-	A	Yes					
Ethyl butanol	EBT	20	D	D		A	Yes					
Ethyl tert-butyl ether	EBE	41	D	С		A	Yes					
Ethyl butyrate	EBR	34	D	D		A	Yes					
	ECY	31	D	D		A	Yes					
Ethyl cyclohexane	EGL	20		E								
Ethylene glycol			D D	E		A	Yes					
Ethylene glycol butyl ether acetate	EMA					Α .	Yes			-		
Ethylene glycol diacetate	EGY		D	E		A	Yes					
Ethylene glycol phenyl ether	EPE		D	E		Α_	Yes					
Ethyl-3-ethoxypropionate	EEP		D	D		Α_	Yes					
2-Ethylhexanol	EHX		D	E		A	Yes					
Ethyl propionate	EPR	1	D	C		A	Yes					
Ethyl toluene	ETE		D	D		Α	Yes					
Formamide	FAM		D	E		A	Yes					
Furfuryl alcohol	FAL	20	2 D	E A/C		A	Yes	1				



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Cargo Identification								Conditions of Carriage					
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	App'd	Recovery VCS Category	Special Requirements in 46 CFR 151 General and Mat'ls of Construction	Insp. Period			
Gasoline blending stocks: Reformates	GRF	33	D	A/C		Α	Yes	1					
Gasolines: Automotive (containing not over 4.23 grams lead per	GAT	33	D	С		Α	Yes	1					
Gasolines: Aviation (containing not over 4.86 grams of lead per gallon) GAV	33	D	С		Α	Yes	1					
Gasolines: Casinghead (natural)	GCS	33	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					
Glycerine	GCR	20 2	2 D	Ε		Α	Yes	1					
Heptane (all isomers), see Alkanes (C6-C9) (all isomers)	НМХ	31	D	С		Α	Yes	1					
n-Heptanoic acid	HEN	4	D	Е		Α	Yes	1					
Heptanol (all isomers)	HTX	20	D	D/E		Α	Yes	1					
Heptene (all isomers)	HPX	30	D	С		Α	Yes	2					
Heptyl acetate	HPE	34	D	Е		Α	Yes	1					
Hexane (all isomers), see Alkanes (C6-C9)	HXS	31 ²	D	B/C		Α	Yes	1					
Hexanoic acid	нхо	4	D	E		Α	Yes	1					
Hexanol	HXN	20	D	D		Α	Yes	1					
Hexene (all isomers)	HEX	30	D	С		Α	Yes	2					
Hexylene glycol	HXG	20	D	E		Α	Yes	1					
Isophorone	IPH	18 ²		E		A	Yes	1					
Jet fuel: JP-4	JPF	33	D	Ε		Α	Yes	1					
Jet fuel: JP-5 (kerosene, heavy)	JPV	33	D	D		A	Yes	1					
Kerosene	KRS	33	D	D		A	Yes	1					
Methyl acetate	MTT	34	D	D		A	Yes	1					
Methyl alcohol	MAL	20 2	1.1.1.1	С	-	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 tert-butyl ether													
Methyl butyl ketone	MBE	41 2	D D	С		A	Yes	1					
		18			-	A	Yes	1					
Methyl butyrate	MBU	34	D	С		_ A	Yes	1					
Methylcyclohexane	MCY	31	D	С		A	Yes	1					
Methyl ethyl ketone	MEK	18 ²		С		A_	Yes	1_					
Methyl heptyl ketone	MHK	18	D	D	_	Α	Yes	1		_			
Methyl isobutyl ketone	MIK	18 ²		C		Α	Yes	1					
Mineral spirits	MNS	33	D _	D		A	Yes	1					
Myrcene	MRE	30	D	D		Α	Yes	1					
Naphtha: Heavy	NAG	33	D	#		Α	Yes	1					
Naphtha: Petroleum	PTN	33	D	#		Α	Yes	1					
Naphtha: Solvent	NSV	33	D	D		Α	Yes	11					



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Cargo Identifica	ation					Conditions of Carriage					
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	App'd	Recovery VCS Category	Special Requirements in 46 CFR 151 General and Mat'ls of Construction	Insp Period	
Naphtha: Stoddard solvent	NSS	33	D	D		Α	Yes	1			
Naphtha: Varnish makers and painters (75%)	NVM	33	D	С		Α	Yes	1			
Nonane (all isomers), see Alkanes (C6-C9)	NAX	31	D	D		Α	Yes	1			
Nonene (all isomers)	NON	30	D	D		Α	Yes	2			
Nonyl alcohol (all isomers)	NNS	20 2	2 D	Е		Α	Yes	1			
Nonyl phenol	NNP	21	D	E		Α	Yes	1			
Nonyl phenol poly(4+)ethoxylates	NPE	40	D	Ε		Α	Yes	1			
Octane (all isomers), see Alkanes (C6-C9)	OAX	31	D	С		Α	Yes	1			
Octanoic acid (all isomers)	OAY	4	D	Ε		Α	Yes	1			
Octanol (all isomers)	осх	20 2	2 D	E		Α	Yes	1			
Octene (all isomers)	OTX	30	D	С		А	Yes	2			
Oil, fuel: No. 2	OTW	/ 33	D	D/E		А	Yes	1			
Oil, fuel: No. 2-D	OTD	33	D	D		A	Yes	1			
Oil, fuel: No. 4	OFR		D	D/E		Α	Yes	1			
Oil, fuel: No. 6	OSX		D	E		A	Yes	1			
Oil, misc: Crude	OIL	33	D	A/D		Α	Yes	1			
Oil, misc: Diesel	ODS		D	D/E		A	Yes	1			
Oil, misc: Gas, high pour	OGP		D	E		A	Yes				
Oil, misc: Lubricating	OLB	33	D	E	-	A	Yes	1			
Oil, misc: Residual	ORL	33	D	E		A	Yes	1			
Oil, misc: Turbine	ОТВ	33	D	E		A	Yes	1			
alpha-Olefins (C6-C18) mixtures	OAM		D	E		A	Yes	1			
Olefins (C13+, all isomers)	OFZ	30	D	E		A	Yes	1			
Pentane (all isomers)	PTY	31	D	Α		A	Yes	5	70		
Pentene (all isomers)	PTX	30	D	A		A	Yes	5			
n-Pentyl propionate	PPE	34	D	D		A	Yes	1			
alpha-Pinene	PIO		D	D							
beta-Pinene	PIP	30				A	Yes				
		30	D	D		A	Yes	_ 1			
Poly(2-8)alkylene glycol monoalkyl (C1-C6) ether	PAG	40	D	E		A	Yes	1			
Poly(2-8)alkylene glycol monoalkyl (C1-C6) ether acetate	PAF	34	D	E		A	Yes				
Polybutene	PLB	30	D	Ε		Α	Yes	1			
Polypropylene glycol	PGC		D	E		A	Yes	1			
Isopropyl acetate	IAC	34	D	C		- A	Yes				
n-Propyl acetate	PAT	34	D	С		A	Yes	1_			
Isopropyl alcohol	IPA	20 ²		С		A	Yes	1			
n-Propyl alcohol	PAL	20 ²		C		Α	Yes	1			
Propylbenzene (all isomers)	PBY	32	D	D		A	Yes	1			
Isopropylcyclohexane	IPX	31	D	D		Α	Yes	1_			

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Cargo Identifica	tion	n e						Conditions of Carriage					
Cargo identifica	LIOII												
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	App'd	VCS	Special Requirements in 46 CFR 151 General and Mat'ls of Construction	Insp. Period			
Propylene glycol	PPG	20 ²	D	Ε		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	Е		Α	Yes	1					
Tetraethylene glycol	TTG	40	D	Е		Α	Yes	1					
Tetrahydronaphthalene	THN	32	D	E		Α	Yes	1					
Toluene	TOL	32	D	С		Α	Yes	1					
Tricresyl phosphate (containing less than 1% ortho isomer)	TCP	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	E		Α	Yes	1					
Trimethylbenzene (all isomers)	TRE	32	D	{D}		Α	Yes	1					
Trixylyl phosphate	TRP	34	D	E		Α	Yes	1					
1-Undecene	UDC	30	D	D/E		Α	Yes	1					
1-Undecyl alcohol	UND	20	D	Е		Α	Yes	1					
Xylenes (ortho-, meta-, para-)	XLX	32	D	D		A	Yes	1					



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

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Shipyard: Arcosa Caruth

Hull #: 6081-4

Explanation of terms & symbols used in the Table:

Carpo Identification Name

The propper 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 Charl. 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.

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

Grade

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

A. B. C Note 4

Flammable liquid cargoes, as defined in 46 CFR 30-10 22

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

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

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

Hull Type

NA

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

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

Not applicable to barges certificated under Subchapter D.

Conditions of Carriage

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

Yes: The vessel's VCS has been reviewed and approved by the MSC to control vapors of the specified cargo

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

Conditions of Carriage

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:

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 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