

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

Certification Date: 20 Jul 2022 Expiration Date: 20 Jul 2027

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 Nu	mber	Call Sign	Service	
FMT 3094			1127057				Tank Ba	arge
Hailing Port			Hull Material	Но	sepower	Propulsion		
NEW ORLE	EANS, LA		Steel		·			
l'i			Sieei					
UNITED ST	ATES							
Place Built			Delivery Date	Keel Laid Date	Gross Tons	Net Tons	DWT	Length
MADISONV	'ILLE, LA		•	Neer Laid Date	R-1619	R-1619	DWI	R-297.5
			14Jun2002		l-	I-		I-0
UNITED ST	ATES							
Owner				Opera	itor			
PASENTINE	FAMILY ENT	ERPRISES	LLC		ORIDA MARI	NE LLC		
2360 FIFTH					0 Fifth Stree			
MANDEVILL					ndeville, LA 7			
UNITED STA	41E2			UN	TED STATE	5		
This vessel n	nust be manne	d with the fe	ollowing licensed	and unlicana	ad Daraannal	Induded in a	ubiob thous was	-t b -
0 Certified Li	feboatmen. 0 (Certified Tai	nkermen, 0 HSC	Type Rating.	and 0 GMD	s included in w	vnich there mu	st be
0 Masters		0 Licensed M		Engineers		ilers		
0 Chief Mate	26	0 First Class		Assistant Engine		ilers		
0 Second Ma		0 Radio Offic		nd Assistant Eng				
0 Third Mate		0 Able Seame		Assistant Engin				
	st Class Pilot	0 Ordinary Se		sed Engineers	3615			
0 Mate First		0 Deckhands		ied Member Eng	ineer			
			sengers, 0 Other			ne in addition t	o crow and no	Others Total
Persons allow		carry or as	serigers, o Otriei	i cisons in c	iew, o i eiso	ns in addition t	o ciew, and no	Others, Total
Route Perm	nitted And Co	nditions Of	Operation:					
			•					
Lakes,	Bays, and	Sounds-						
Also, in fai Florida.	ir weather on	ly, not mo	re than twelve	(12) miles	from land b	etween St. Ma	arks and Carr	abelle,
This vessel	has been ara	ntod a fro	sh water servi	ao ovaminati	on interval	in accordant	with AC CE	D makl - 21 10
21(b). If t	this vessel i	s operated	in salt water	more than s	ix (6) mont	hs in any two	elve (12) mon	th period, the
vessel must	be inspected tatus occurs.	using sal	t water interv	als and the	cognizant O	CMI notified	in writing a	s soon as this
-								
This tank ba	arge is parti	cipating i	n the Eighth-N	inth Coast G	uard Distri	ct's Tank Bai	rge Streamlin	ed Inspection
SEE NEX	XT PAGE FO	R ADDITIO	NAL CERTIFIC	ATE INFOR	MATION			
			ing been comple			ED STATES +	he Officar in C	harge Marine
			ertified the vesse					
	rules and regul	lations preso	cribed thereunde		Services Control Control Control Control Control		1	1
	Annual/Per	riodic/Re-Ins	spection		his certificate	e issued by	.W.//	gana
Date	Zone	A/P/R	Signatui	·e	Joseph	W. Morgans C	DR, USCG, B	ypirection
					fficer in Charge, Ma			V
						Sector Hou	ston-Galvestor	1
				In	spection Zone	191		
	4	1 1						



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Certificate of Inspection

Vessel Name: FMT 3094

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	30Jun2032	08Jul2022	11Jun2012
Internal Structure	31Jul2027	01Jul2022	03Oct2017

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

Authorization:	GRADE "A" AND LOWER AND SPECIFIED HAZARDOUS CARGOES.
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Total Capacity	Units	Highest Grade Type	Part151 Regulated	Part153 Regulated	Part154 Regulated
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28107 Barrels A Yes No No

Hazardous Bulk Solids Authority

Loading Constraints - Structural

	Tank Location Description	Max Cargo Weight per Tank (short tons)	Maximum Density (lbs/gal)
	1 P/S	828	13.6
١	2 P/S	869	13.6
	3 P/S	697	13.6

Loading Constraints - Stability

Hull Type	Maximum Load (short tons)	Maximum Draft (ft/in)	Max Density (lbs/gal)	Route Description
l II	3790	9ft 6in	13.6	River, Lakes, Bays and Sounds
III	4791	11ft 6in	13.6	Rivers, Lakes, Bays and Sounds

Conditions Of Carriage

Only those cargoes named in the vessel's Cargo Authority Attachment (CAA), Serial #C1-1303585, dated October 23, 2013, may be carried and then only in the tanks indicated.

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 reactive group numbers from the "COMPAT GRP NO" column listed in the vessel's CAA.

VAPOR CONTROL AUTHORIZATION

In accordance with 46 CFR 39, excluding 46 CFR 39.4000, this vessel's vapor control system has been inspected to the plans approved by Marine Safety Center letter Serial #C2-0102497 dated July 13th, 2001, and found acceptable for collection of bulk liquid cargo vapors annotated with "Yes" in the CAA's VCS column.

--- Inspection Status ---

Cargo Tanks

ļ		Internal Exam			External Exam		
	Tank Id	Previous	Last	Next	Previous	Last	Next
	1 P/S	11Jun2012	01Jul2022	30Jun2032	-	-	-
	2 P/S	11Jun2012	01Jul2022	30Jun2032	-	-	-
	3 P/S	11Jun2012	01Jul2022	30Jun2032	-	-	-
ı							



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Certificate of Inspection

Vessel Name: FMT 3094

		Hydro Test		
Tank Id	Safety Valves	Previous	Last	Next
1 P/S	-	-	-	-
2 P/S	-	-	-	<u>.</u>
3 P/S	-	_	_	

--- Conditional Portable Fire Extinguisher Requirements---

Required Only During Transfer of Cargo or Operation of Barge Machinery

--- Fire Fighting Equipment ---

Fire Extinguishers - Hand portable and semi-portable

Quantity

Class Type

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40-B

\*\*\*END\*\*\*

Department of Homeland Security

Serial #: C1-1303585

23-Oct-13



# Certificate of Inspection

### Cargo Authority Attachment

Vessel Name: FMT 3094 Official #: D1127057

Shipyard: Trinity Madisonville

Hull #: 2107-5

| 46 CFR 151 Tank            | Group ( | Chara      | cteris | tics                 |            |                     |       |               |      |       |                    |                        |          |                              |                                                                          |              |    |
|----------------------------|---------|------------|--------|----------------------|------------|---------------------|-------|---------------|------|-------|--------------------|------------------------|----------|------------------------------|--------------------------------------------------------------------------|--------------|----|
| Tank Group Information     | Cargo I | dentificat | ion    |                      | Cargo      |                     | Tanks |               | Carg |       | Enviror<br>Control | nmental<br>I           | Fire     | Special Require              | ments                                                                    |              |    |
| Trik<br>Grp Tanks in Group | Density | Press      | Temp.  | Hull Seg<br>Typ Tank | l _        | Vent                | Gauge | Pipe<br>Class | Cont | Tanks | Handling<br>Space  | Protection<br>Provided | General  | Materials of<br>Construction | Elec<br>Haz                                                              | Temp<br>Cont |    |
| A #1 - #3 P/S              | 13.6    | Atmos      | Amb.   | II                   | 1ii<br>2ii | Integral<br>Gravity | PV    | Closed        | П    | G-1   | NR                 | NA                     | Portable | .50-73, .50-81(a),           | 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,

**List of Authorized Cargoes** 

| Cargo Identification                                                             | Conditions of Carriage |                    |                |       |              |               |                   |                 |                                                             |                 |
|----------------------------------------------------------------------------------|------------------------|--------------------|----------------|-------|--------------|---------------|-------------------|-----------------|-------------------------------------------------------------|-----------------|
|                                                                                  |                        |                    |                |       |              |               | Vapor Re          | ecovery         |                                                             | E               |
| Name                                                                             | Chem<br>Code           | Compat<br>Group No | Sub<br>Chapter | Grade | Hull<br>Type | Tank<br>Group | App'd<br>(Y or N) | VCS<br>Category | Special Requirements in 46 CFR<br>151 General and Mat'ls of | Insp.<br>Period |
| Authorized Subchapter O Cargoes                                                  |                        |                    |                |       |              |               |                   |                 |                                                             |                 |
| Acetonitrile                                                                     | ATN                    | 37                 | 0              | С     | 111          | Α             | Yes               | 3               | No                                                          | G               |
| Acrylonitrile                                                                    | ACN                    | 15 <sup>2</sup>    | 0              | С     | II           | Α             | No                | N/A             | .50-70(a), .55-1(e)                                         | G               |
| Adiponitrile                                                                     | ADN                    | 37                 | 0              | Ε     | Ш            | Α             | Yes               | 1               | No                                                          | G               |
| Ałkyl(C7-C9) nitrates                                                            | AKN                    | 34 2               | 0              | NA    | 111          | Α             | No                | N/A             | .50-81, .50-86                                              | G               |
| Aminoethylethanolamine                                                           | AEE                    | 8                  | 0              | .:E ≅ | - 111        | Α             | Yes               | 1               | ,55-1(b)                                                    | G               |
| Ammonium bisulfite solution (70% or less)                                        | ABX                    | 43 <sup>2</sup>    | 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    | < :- II      | Α             | No                | N/A             | No                                                          | G               |
| Benzene                                                                          | BNZ                    | 32                 | 0              | С     | 101          | Α             | Yes               | 1               | .50-60                                                      | G               |
| Benzene or hydrocarbon mixtures (having 10% Benzene or more)                     | ВНВ                    | 32 <sup>2</sup>    | 0              | С     | 111          | Α             | Yes               | 1               | .50-60                                                      | G               |
| Benzene or hydrocarbon mixtures (containing Acetylene and 10% Benzene or more)   | ВНА                    | 32 <sup>2</sup>    | 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     | HI           | Α             | No                | N/A             | .50-70(a), .50-81(a), (b)                                   | G               |
| Butyl methacrylate                                                               | вмн                    | 14                 | - 0            | D     | Ш            | Α             | No                | N/A             | .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)                                                              | СРО                    | 18                 | 0              | D     | It           | Α             | No                | N/A             | No                                                          | G               |
| Carbon tetrachloride                                                             | СВТ                    | 36                 | 0              | NA    | 111          | Α             | No                | N/A             | No                                                          | G               |
| Caustic potash solution                                                          | CPS                    | 5 2                | 0              | NA    | 111          | Α             | No                | N/A             | .50-73, .55-1(j)                                            | G               |
| Caustic soda solution                                                            | CSS                    | 5 <sup>2</sup>     | 0              | NA    | 111          | Α             | No                | N/A             | .50-73, .55-1(j)                                            | G               |
| Chemical Oil (refined, containing phenolics)                                     | COD                    | 21                 | 0              | E     | II           | Α             | No                | N/A             | .50-73                                                      | G               |
| Chlorobenzene                                                                    | CRB                    | 36                 | 0              | D     | Ш            | Α             | Yes               | 1               | No                                                          | G               |
| Chloroform                                                                       | CRF                    | 36                 | 0              | NA    | HI           | Α             | Yes               | 3               | No                                                          | G               |
| Coal tar naphtha solvent                                                         | NCT                    | 33                 | 0              | D     | HI           | Α             | Yes               | 1               | ,50-73                                                      | G               |
| Creosote                                                                         | ccw                    | 21 2               | 0              | E     | III          | Α             | Yes               | 1               | No                                                          | G               |
| Cresols (all isomers)                                                            | CRS                    | 21                 | 0              | E     | III          | Α             | Yes               | 1               | No                                                          | G               |
| Cresylate spent caustic                                                          | CSC                    | 5                  | 0              | NA    | 111          | Α             | No                | N/A             | .50-73, .55-1(b)                                            | G               |
| Cresylic acid tar                                                                | CRX                    | 21                 | 0              | E     | III          | A             | Yes               | 1               | .55-1(f)                                                    | G               |
| Crotonaldehyde                                                                   | CTA                    | 19 <sup>2</sup>    | 0              | С     | 11           | Α             | No                | N/A             | .55-1(h)                                                    | G               |
| Crude hydrocarbon feedstock (containing Butyraldehydes and Ethylpropyl acrolein) | CHG                    |                    | 0              | С     | 101          | Α             | Yes               | 1               | No                                                          | G               |
| Cyclohexanone                                                                    | ССН                    | 18                 | 0              | D     | 111          | Α             | Yes               | 1               | "56-1(a), (b)                                               | G               |
| Cyclohexanone, Cyclohexanol mixture                                              | CYX                    | 18 <sup>2</sup>    | 0              | E     | III          | Α             | Yes               | 1               | ,56-1 (b)                                                   | G               |
| Cyclohexylamine                                                                  | CHA                    | 7                  | 0              | D     | III          | Α             | Yes               | 1               | .56-1(a), (b), (c), (g)                                     | G               |
| Cyclopentadiene, Styrene, Benzene mixture                                        | CSB                    | 30                 | 0              | D     | III          | Α             | Yes               | 1               | .50-60, .56-1(b)                                            | G               |

<sup>\*\*\*</sup> This document is only valid when attached to, and referenced by a current, valid Certificate of Inspection. \*\*\*

<sup>2.</sup> 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,

<sup>3.</sup> 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.



C1-1303585 Dated:

23-Oct-13

# Certificate of Inspection

## Cargo Authority Attachment

Vessel Name: FMT 3094 Official #: D1127057

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Shipyard: Trinity Madisonville

| Cargo Identification                                              | n            |                      |                |       |              |               | (                 | Condit     | ions of Carriage                                            |                 |
|-------------------------------------------------------------------|--------------|----------------------|----------------|-------|--------------|---------------|-------------------|------------|-------------------------------------------------------------|-----------------|
| Name                                                              | Chem<br>Code | Compat<br>Group No   | Sub<br>Chapter | Grade | Hull<br>Type | Tank<br>Group | App'd<br>(Y or N) | VCS        | Special Requirements in 46 CFR<br>151 General and Mat'ls of | Insp.<br>Period |
| iso-Decyl acrylate                                                | 1AI          | 14                   | 0              | E     | HI           | Α             | No                | N/A        | 50-70(a), 50-81(a), (b), .55-1(c)                           | G               |
| Dichlorobenzene (all isomers)                                     | DBX          | 36                   | 0              | E     | III          | A             | Yes               | 3          | .56-1(a), (b)                                               | G               |
| 1,1-Dichloroethane                                                | DCH          | 36                   | 0              | c     | III          | A             | Yes               | 1          | No                                                          | G               |
| 2,2'-Dichloroethyl ether                                          | DEE          | 41                   | 0              | D     | <br>         | A             | Yes               | 1          | .55-1(f)                                                    | G               |
| Dichloromethane                                                   | DCM          | 36                   | 0              | NA    | - III        | A             | No                |            | No                                                          | G               |
| 2,4-Dichlorophenoxyacetic acid, diethanolamine salt solution      | DDE          | 43                   | 0              | E     |              | A             | No                | N/A<br>N/A | ,56-1(a), (b), (c), (g)                                     | G               |
|                                                                   | DAD          | 0 1,2                | 0              | A     |              |               |                   |            | .56-1(a), (b), (c), (g)                                     | G               |
| 2.4-Dichlorophenoxyacetic acid, dimethylamine salt solution       |              | 43 2                 | 0              |       | 111          | A             | No                | N/A        |                                                             | G               |
| 2,4-Dichlorophenoxyacetic acid, triisopropanolamine salt solution | DTI<br>DPB   |                      |                | E     | III          | A             | No                | N/A        | .56-1(a), (b), (c), (g)                                     | G               |
| 1,1-Dichloropropane                                               |              | 36                   | 0              | С     | III          | A             | Yes               | 3          |                                                             |                 |
| 1,2-Dichloropropane                                               | DPP          | 36                   | 0              | С     | fft          | A             | Yes               | 3          | No                                                          | G               |
| 1,3-Dichloropropane                                               | DPC          | 36                   | 0              | С     | III          | Α             | Yes               | 3          | No                                                          | G               |
| 1,3-Dichloropropene                                               | DPU          | 15                   | 0              | D     | - 11         | A             | No                | N/A        | No                                                          | G               |
| Dichloropropene, Dichloropropane mixtures                         | DMX          | 15                   | 0              | С     | ll l         | A             | Yes               | 1          | No                                                          | G               |
| Diethanolamine                                                    | DEA          | 8                    | 0              | E     | HII          | A             | Yes               | 1          | .55-1(c)                                                    | G               |
| Diethylamine                                                      | DEN          | 7                    | 0              | С     | - 111        | Α             | Yes               | 3          | .55-1(c)                                                    | G               |
| Diethylenetriamine                                                | DET          | 7 2                  | 0              | Е     | III          | Α             | Yes               | 1          | .55-1(c)                                                    | G               |
| Diisobutylamine                                                   | DBU          | 7                    | 0              | D     | Ш            | Α             | Yes               | 3          | ,55-1(c)                                                    | G               |
| Diisopropanolamine                                                | DIP          | 8                    | 0              | Е     | 111          | Α             | Yes               | 1          | .55-1(c)                                                    | G               |
| Diisopropylamine -                                                | DIA          | 7                    | 0              | С     | II.          | Α             | Yes               | 3          | .55-1(c)                                                    | G               |
| N,N-Dimethylacetamide                                             | DAC          | 10                   | 0              | Е     | Ш            | Α             | Yes               | 3          | .56-1(b)                                                    | G               |
| Dimethylethanolamine                                              | DMB          | 8                    | 0              | D     | Ш            | Α             | Yes               | . 1        | ,56-1(b), (c)                                               | G               |
| Dimethylformamide                                                 | DMF          | 10                   | 0              | D     | JII          | Α             | Yes               | 1          | .55-1(e)                                                    | G               |
| Di-n-propylamine                                                  | DNA          | 7                    | 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              | #     | II           | A             | No                | N/A        | No                                                          | G               |
| EE Glycol Ether Mixture                                           | EEG          | 40                   | 0              | D     | III          | A             | No                | N/A        | No                                                          | G               |
| Ethanolamine                                                      | MEA          | 8.                   | 0              | E     | III          | A             | Yes               | 1          | ,55-1(c)                                                    | G               |
| Ethyl acrylate                                                    | EAC          | 14                   | 0              | C     | 111          | A             | No                | N/A        | .50-70(a), .50-81(a), (b)                                   | G               |
| Ethylamine solution (72% or less)                                 | EAN          | 7                    | 0              | A     | - 11         | A             | Yes               | 6          | .55-1(b)                                                    | G               |
| N-Ethylbutylamine                                                 | EBA          | 7                    | 0              | D     | 101          | A             | Yes               | 3          | ,55-1(b)                                                    | G               |
|                                                                   | ECC          | 7                    | -0             | D     |              |               |                   |            | ,55-1(b)                                                    | G               |
| N-Ethylcyclohexylamine                                            |              |                      |                |       | 111          | A             | Yes               | 1          | No.                                                         |                 |
| Ethylene cyanohydrin                                              | ETC          | 20<br>7 <sup>2</sup> | 0              | E     | <u>   </u>   | A             | Yes               | 1          |                                                             | G               |
| Ethylenediamine                                                   | EDA          |                      | 0              | D     |              | Α             | Yes               | 1          | .55-1(c)                                                    | G               |
| Ethylene dichloride                                               | EDC          | 36 <sup>2</sup>      | 0              | C     | 1(1          | A             | Yes               | 11         | No                                                          | G               |
| Ethylene glycol hexyl ether                                       | EGH          | 40                   | 0              | Е     | Ш            | Α             | No                | N/A        | No                                                          | G               |
| Ethylene glycol monoalkyl ethers                                  | EGC          | 40                   | 0              | D/E   | III          | A             | Yes               | 1          | No                                                          | G               |
| Ethylene glycol propyl ether                                      | EGP          | 40                   | 0              | E     | III          | Α             | Yes               | 1          | No                                                          | G               |
| 2-Ethylhexyl acrylate                                             | EAI          | 14                   | 0              | E     | .01          | Α             | No                | N/A        | ,50-70(a), ,50-81(a), (b)                                   | G               |
| Ethyl methacrylate                                                | ETM          | 14                   | 0              | D/E   | - 111        | Α             | No                | N/A        | .50-70(a)                                                   | G               |
| 2-Ethyl-3-propylacrolein                                          | EPA          | 19 <sup>2</sup>      | 0              | Е     | IH           | Α             | Yes               | 1          | No                                                          | G               |
| Formaldehyde solution (37% to 50%)                                | FMS          | 19 <sup>2</sup>      | 0              | D/E   | III          | Α             | Yes               | 1          | .55-1(h)                                                    | G               |
| Furfural                                                          | FFA          | 19                   | 0              | D     | Ш            | Α             | Yes               | 1          | .55-1(h)                                                    | G               |
| Glutaraldehyde solution (50% or less)                             | GTA          | 19                   | 0              | NA    | III          | Α             | No                | N/A        | No                                                          | G               |
| Hexamethylenediamine solution                                     | НМС          | 7                    | 0              | Е     | 10)          | Α             | Yes               | 1          | .55-1(c)                                                    | G               |
| Hexamethyleneimine                                                | НМІ          | 7                    | 0              | С     | П            | Α             | Yes               | 1          | .56-1(b), (c)                                               | G               |
| Hydrocarbon 5-9                                                   | HFN          |                      | 0              | С     | 111          | A             | Yes               | 1          | .50-70(a), .50-81(a), (b)                                   | G               |
| Isoprene                                                          | IPR          | 30                   | 0              | A     | III          | A             | No                | N/A        | 50-70(a), 50-81(a), (b)                                     | G               |
| Isoprene, Pentadiene mixture                                      | IPN          |                      | 0              | В     | 111          | A             | No                | N/A        | 50-70(a), 55-1(c)                                           | G               |

Serial #: C1-1303585

23-Oct-13



## Certificate of Inspection

## Cargo Authority Attachment

Vessel Name: FMT 3094 Official #: D1127057

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Shipyard: Trinity Madisonville

| Cargo Identification                                                                             |              |                    |                |       |              |               | (                 | Condi | tions of Carriage                                           |       |
|--------------------------------------------------------------------------------------------------|--------------|--------------------|----------------|-------|--------------|---------------|-------------------|-------|-------------------------------------------------------------|-------|
| Name                                                                                             | Chem<br>Code | Compat<br>Group No | Sub<br>Chapter | Grade | Hull<br>Type | Tank<br>Group | App'd<br>(Y or N) | VCS   | Special Requirements in 46 CFR<br>151 General and Mat'ls of | Insp. |
| 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 <sup>2</sup>    | 0              | D     | III          | Α             | Yes               | 11    | No                                                          | G     |
| Methyl acrylate                                                                                  | MAM          | 14                 | 0              | С     | 111          | Α             | No                | N/A   | .50-70(a), .50-81(a), (b)                                   | G     |
| Methylcyclopentadiene dimer                                                                      | MCK          | 30                 | 0              | С     | III          | Α             | Yes               | 1     | No                                                          | G     |
| Methyl diethanolamine                                                                            | MDE          | 8                  | 0              | E     | Ш            | Α             | Yes               | 1     | .56-1(b), (c)                                               | G     |
| 2-Methyl-5-ethylpyridine                                                                         | MEP          | 9                  | 0              | Е     | III          | Α             | Yes               | 1     | ,55-1(e)                                                    | G     |
| Methyl methacrylate                                                                              | MMM          | 14                 | 0              | С     | III          | Α             | No                | N/A   | 50-70(a), 50-81(a), (b)                                     | G     |
| 2-Methylpyridine                                                                                 | MPR          | 9                  | 0              | D     | III          | Α             | Yes               | 3     | "55-1(c)                                                    | G     |
| alpha-Methylstyrene                                                                              | MSR          | 30                 | 0              | D     | III          | A             | No                | N/A   | .50-70(a), .50-81(a), (b)                                   | G     |
| Morpholine                                                                                       | MPL          | 7 <sup>2</sup>     | 0              | D     | III          | Α             | Yes               | 1     | .55-1(c)                                                    | G     |
| Nitroethane                                                                                      | NTE          | 42                 | 0              | Ð     | - 11         | Α             | No                | N/A   | .50-81, .56-1(b)                                            | G     |
| 1- or 2-Nitropropane                                                                             | NPM          | 42                 | 0              | D     | 111          | Α             | Yes               | 1     | .50-81                                                      | G     |
| 1.3-Pentadiene                                                                                   | PDE          | 30                 | 0              | Α     | HI           | Α             | No                | N/A   | 50-70(a), 50-81                                             | G     |
| Perchloroethylene                                                                                | PER          | 36                 | 0              | NA    | 121          | A             | No                | N/A   | No                                                          | G     |
| Polyethylene polyamines                                                                          | PEB          | 7 <sup>2</sup>     | 0              | E     | 111          | Α             | Yes               | 1     | .55-1(e)                                                    | G     |
| iso-Propanolamine                                                                                | MPA          | 8                  | 0              | E     | III          | A             | Yes               | 1     | .55-1(c)                                                    | G     |
| Propanolamine (iso-, n-)                                                                         | PAX          | 8                  | 0              | E     | 111          | A             | Yes               | 1     | ,56-1(b), (c)                                               | G     |
| iso-Propylamine                                                                                  | IPP          | 7                  | 0              |       | 11           | A             | No                | N/A   | .55-1(c)                                                    | G     |
| Pyridine                                                                                         | PRD          | 9                  | 0              | C     | 111          | A             | Yes               | 1     | .55-1(e)                                                    | G     |
| Sodium acetate, Glycol, Water mixture (3% or more Sodium Hydroxide                               |              | 5                  | 0              |       | 111          | A             | No                | N/A   | .50-73, .55-1(j)                                            | G     |
| Sodium aluminate solution (45% or less)                                                          | SAU          | 5                  | 0              | NA    | III          | A             | No                | N/A   | .50-73, .56-1(a), (b), (c)                                  | G     |
| Sodium chlorate solution (50% or less)                                                           | SDD          | 0 1,2              |                | NA    | III          | A             | No                | N/A   | .50-73                                                      | G     |
| Sodium hypochlorite solution (20% or less)                                                       | SHQ          | 5                  | 0              | NA    | III          | A             | No                | N/A   | ,50-73, ,56-1(a), (b)                                       | G     |
| Sodium sulfide, hydrosulfide solution (H2S 15 ppm or less)                                       | SSH          | 0 1,2              |                | NA    | III          | A             | 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              |                | NA    | III          | 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    | II.          | Α             | No                | N/A   | _50-73, .55-1(b)                                            | G     |
| Styrene (crude)                                                                                  | STX          | 30                 | 0              | D     | III          | Α             | No                | N/A   | No                                                          | G     |
| Styrene monomer                                                                                  | STY          | 30                 | 0              | D     | III          | Α             | 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     |
| Tetraethylenepentamine                                                                           | TTP          | 7                  | 0              | E     | III          | A             | Yes               | 1     | .55-1(c)                                                    | G     |
| Tetrahydrofuran                                                                                  | THF          | 41                 | 0              | c     | III          | A             | Yes               | 1     | .50-70(b)                                                   | G     |
| Toluenediamine                                                                                   | TDA          | 9                  | 0              | E     | - 11         | A             | No                | N/A   | .50-73, .56-1(a), (b), (c), (g)                             | G     |
| 1,2,4-Trichlorobenzene                                                                           | тсв          | 36                 | 0              | E     | ···          | A             | Yes               | 1     | No                                                          | G     |
| 1,1,2-Trichloroethane                                                                            | TCM          | 36                 | 0              | NA    | 111          | A             | Yes               | 1     | .50-73, .56-1(a)                                            | G     |
| Trichloroethylene                                                                                | TCL          | 36 <sup>2</sup>    | 0              | NA    | 181          |               | Yes               | 1     | No                                                          | G     |
| 1,2,3-Trichloropropane                                                                           | TCN          | 36                 | 0              | E     | 11           | A             | Yes               | 3     | .50-73, .56-1(a)                                            | G     |
| Triethanolamine                                                                                  | TEA          | 8 <sup>2</sup>     | 0              | E     | - 111        | A             | Yes               | 1     | .55-1(b)                                                    | G     |
| Triethylamine                                                                                    | TEN          | 7                  | 0              | c     |              | A             | Yes               | 3     | .55-1(e)                                                    | G     |
| Triethylenetetramine                                                                             | TET          | 7 2                | -0             | E     | III          | A             | Yes               | 1     | .55-1(b)                                                    | G     |
| Triphenylborane (10% or less), caustic soda solution                                             | TPB          | 5                  | -              | NA NA | 111          | A             | No                | N/A   | .56-1(a), (b), (c)                                          | G     |
|                                                                                                  |              | 5                  | 0              |       |              |               | No                | N/A   | .50-73, .56-1(a), (c)                                       | G     |
| Trisodium phosphate solution                                                                     | TSP          |                    |                | NA    | III          | A             |                   |       | 56-1(b)                                                     | G     |
| Urea, Ammonium nitrate solution (containing more than 2% NH3)                                    | UAS          | 6                  | 0              | NA    | III          | A             | No                | N/A   | 50-73, .56-1(a), (c), (g)                                   | G     |
| Vanillin black liquor (free alkali content, 3% or more).                                         | VBL          | 5                  | 0              | NA    |              | Α             | No                | N/A   | .50-70(a), .50-81(a), (b)                                   | G     |
| Vinyl acetate                                                                                    | VAM          | 13                 | 0              | С     | Ш            | A             | No                | N/A   |                                                             | G     |
| Vinyl neodecanate                                                                                | VND          | 13                 | 0              | E     | 111          | A             | No                | N/A   | .50-70(a), .50-81(a), (b)                                   |       |
| Vinyltoluene                                                                                     | VNT          | 13                 | 0              | D     | 1!!          | Α             | No                | N/A   | ,50-70(a), ,50-81, ,56-1(a), (b), (c), (                    | G     |



Certificate of Inspection

## Cargo Authority Attachment

Vessel Name: FMT 3094 Official #: D1127057

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Shipyard: Trinity Madisonville

Serial #: C1-1303585

23-Oct-13

| Cargo Identification                                                                                                                                  |              |                    |                |       |              |               | Conditions of Carriage |                             |                                                             |                 |  |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--------------------|----------------|-------|--------------|---------------|------------------------|-----------------------------|-------------------------------------------------------------|-----------------|--|--|
| Name                                                                                                                                                  | Chem<br>Code | Compat<br>Group No | Sub<br>Chapter | Grade | Hull<br>Type | Tank<br>Group | App'd                  | Recovery<br>VCS<br>Category | Special Requirements in 46 CFR<br>151 General and Mat'ls of | Insp.<br>Period |  |  |
| Subchapter D Cargoes Authorized for Vapor Conti                                                                                                       | ol           |                    |                |       |              |               |                        |                             |                                                             |                 |  |  |
| Acetone                                                                                                                                               | ACT          | 18 <sup>2</sup>    | D              | С     |              | Α             | Yes                    | 1                           |                                                             |                 |  |  |
| Acetophenone                                                                                                                                          | ACP          | 18                 | D              | E     |              | Α             | 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 their borate esters) | BFX          | 20                 | D              | E     |              | Α             | Yes                    | 1                           |                                                             |                 |  |  |
| Butyl acetate (all isomers)                                                                                                                           | BAX          | 34                 | D              | D     |              | Α             | Yes                    | 1                           |                                                             |                 |  |  |
| Butyl alcohol (iso-)                                                                                                                                  | IAL          | 20 <sup>2</sup>    | D              | D     |              | Α             | Yes                    | 1                           |                                                             |                 |  |  |
| Butyl alcohol (n-)                                                                                                                                    | BAN          | 20 <sup>2</sup>    | D              | D     |              | Α             | Yes                    | 1                           |                                                             |                 |  |  |
| Butyl alcohol (sec-)                                                                                                                                  | BAS          | 20 <sup>2</sup>    | D              | С     |              | Α             | Yes                    | 1                           |                                                             |                 |  |  |
| Butyl alcohol (tert-)                                                                                                                                 | BAT          | 20 <sup>2</sup>    | D              | С     |              | Α             | Yes                    | 1                           |                                                             |                 |  |  |
| Butyl benzyl phthalate                                                                                                                                | врн          | 34                 | D              | Е     |              | Α             | Yes                    | 1                           |                                                             |                 |  |  |
| Butyl toluene                                                                                                                                         | BUE          | 32                 | D              | D     |              | Α             | Yes                    | 1                           |                                                             |                 |  |  |
| Caprolactam solutions                                                                                                                                 | CLS          | 22                 | D              | Ę     |              | Α             | Yes                    | 1                           | 7 (                                                         |                 |  |  |
| Cyclohexane -                                                                                                                                         | CHX          | 31                 | D              | С     |              | Α             | Yes                    | 4                           |                                                             |                 |  |  |
| Cyclohexanol                                                                                                                                          | CHN          | 20                 | D              | Е     |              | Α             | Yes                    | া                           |                                                             |                 |  |  |
| p-Cymene                                                                                                                                              | CMP          | 32                 | D              | D     |              | A             | Yes                    | 1                           |                                                             |                 |  |  |
| iso-Decaldehyde                                                                                                                                       | IDA          | 19                 | D              | E     |              | Α             | Yes                    | 1                           | · · · · · · · · · · · · · · · · · · ·                       |                 |  |  |
| n-Decaldehyde                                                                                                                                         | DAL          | 19                 | D              | E     |              | Α             | Yes                    | 1                           |                                                             |                 |  |  |
| Decene                                                                                                                                                | DCE          | 30                 | D              | D     |              | Α             | Yes                    | 1                           |                                                             |                 |  |  |
| Decyl alcohol (all isomers)                                                                                                                           | DAX          | 20 <sup>2</sup>    | D              | Ę     |              | Α             | Yes                    | 1                           |                                                             |                 |  |  |
| n-Decylbenzene, see Alkyl(C9+)benzenes                                                                                                                | DBZ          | 32                 | D              | Ε     |              | Α             | Yes                    | 1                           |                                                             |                 |  |  |
| Diacetone alcohol                                                                                                                                     | DAA          | 20 <sup>2</sup>    | D              | D     |              | Α             | Yes                    | 1                           |                                                             |                 |  |  |
| ortho-Dibutyl phthalate                                                                                                                               | DPA          | 34                 | D              | E     |              | Α             | Yes                    | 1                           |                                                             |                 |  |  |
| Diethylbenzene                                                                                                                                        | DEB          | 32                 | D              | D     |              | Α             | Yes                    | 1                           |                                                             |                 |  |  |
| Diethylene glycol                                                                                                                                     | DEG          | 40 <sup>2</sup>    | D              | E     |              | A             | Yes                    | 1                           |                                                             |                 |  |  |
| Diisobulylene                                                                                                                                         | DBL          | 30                 | D              | С     |              | A             | Yes                    | 1                           |                                                             |                 |  |  |
| Diisobutyl ketone                                                                                                                                     | DIK          | 18                 | D              | D     |              | Α             | Yes                    | 1                           |                                                             |                 |  |  |
| Diisopropylbenzene (all isomers)                                                                                                                      | DIX          | 32                 | D              | E     |              | A             | Yes                    | 1                           |                                                             |                 |  |  |
| Dimethyl phthalate                                                                                                                                    | DTL          | 34                 | D              | Е     |              | 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                                                                                                                     | DDO          | 33                 | D              | E     |              | A             | 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     |              | A             | Yes                    | 1                           |                                                             |                 |  |  |
| Distillates: Straight run                                                                                                                             | DSR          | 33                 | D              | E     |              | A             | Yes                    | 1                           |                                                             |                 |  |  |
| Dodecene (all isomers)                                                                                                                                | DOZ          | 30                 | D              | D     |              | A             | Yes                    | 1                           |                                                             |                 |  |  |
| Dodecylbenzene, see Alkyl(C9+)benzenes                                                                                                                | DDB          | 32                 | D              | E     |              | A             | Yes                    | 1                           |                                                             |                 |  |  |
| 2-Ethoxyethyl acetate                                                                                                                                 | EEA          | 34                 | D              | D     |              | A             | Yes                    | 1                           |                                                             |                 |  |  |
| Ethoxy triglycol (crude)                                                                                                                              | ETG          | 40                 | D              | E     |              | A             | Yes                    | 1                           |                                                             | -               |  |  |
| Ethyl acetate                                                                                                                                         | ETA          | 34                 | D              | C     |              | A             | Yes                    | 1                           |                                                             |                 |  |  |
| Ethyl acetoacetate                                                                                                                                    | EAA          | 34                 | D              | E     |              | A             | Yes                    | 1                           |                                                             |                 |  |  |
| Entry acceptation                                                                                                                                     | -~~          | J-7                | U              | _     |              |               | 162                    |                             |                                                             |                 |  |  |

<sup>\*\*\*</sup> This document is only valid when attached to, and referenced by a current, valid Certificate of Inspection. \*\*\*



Serial #: C1-1303585

23-Oct-13

# Certificate of Inspection

## Cargo Authority Attachment

Vessel Name: FMT 3094 Official #: D1127057

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Shipyard: Trinity Madisonville

| Company   Comp   | Cargo Identification                                     |     |                 |         |       |       | Conditions of Carriage |          |         |          |   |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|-----|-----------------|---------|-------|-------|------------------------|----------|---------|----------|---|--|
| Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                          |     | Ι               |         |       |       |                        | Vapor R  | ecovery |          | T |  |
| ETP  State                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Name                                                     |     |                 | Chapter | Grade |       |                        | (Y or N) |         |          |   |  |
| EBY black-band lefter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Ethyl alcohol                                            | EAL | 20 <sup>2</sup> | D       | С     |       | Α                      | Yes      | 1       |          |   |  |
| Elly to buly rate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Ethylbenzene                                             | ETB | 32              | D       | С     |       | Α                      | Yes      | 1       |          |   |  |
| Etty by                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Ethyl butanol                                            | EBT | 20              | D       | D     |       | Α                      | Yes      | 1       |          |   |  |
| Ethylene glycol                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Ethyl tert-butyl ether                                   | EBE | 41              | D       | С     |       | Α                      | Yes      | 1       |          |   |  |
| Ethylene glycol butly either acetate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Ethyl butyrate                                           | EBR | 34              | D       | D     |       | Α                      | Yes      | 1       |          |   |  |
| Ethylene glycol butlyl ethor acetate  Ethylene glycol diacetats  EGY 34 D E A Yes 1  Ethylene glycol diacetats  EGY 34 D E A Yes 1  Ethylene glycol phanyl ethor  EFE 40 D E A Yes 1  Ethylene glycol phanyl ethor  EFE 40 D E A Yes 1  Ethylene glycol phanyl ethor  EFE 40 D E A Yes 1  Ethylene glycol phanyl ethor  ETH 20 D E A Yes 1  Ethylene glycol phanyl ethor  ETH 20 D E A Yes 1  Ethylene glycol phanyl ethor  ETH 20 D E A Yes 1  Ethylene glycol phanyl ethor  ETH 20 D E A Yes 1  Ethylene glycol phanyl ethor  ETH 20 D E A Yes 1  Ethylene glycol phanyl ethor  ETH 32 D D E A Yes 1  Ethylene glycol phanyl ethor  ETH 32 D D E A Yes 1  Ethylene glycol phanyl ethor  ETH 32 D D E A Yes 1  Ethylene glycol phanyl ethor  ETH 32 D D E A Yes 1  Ethylene glycol phanyl ethor  ETH 32 D D E A Yes 1  Ethylene glycol phanyl ethor  ETH 32 D D E A Yes 1  Ethylene glycol phanyl ethor  ETH 32 D D D A Yes 1  Ethylene glycol phanyl ethor  ETH 32 D D D A Yes 1  Ethylene glycol phanyl ethor  ETH 32 D D D A Yes 1  Ethylene glycol phanyl ethor  ETH 32 D D D A Yes 1  Ethylene glycol phanyl ethor  ETH 32 D D C A Yes 1  Ethylene glycol phanyl ethor  ETH 32 D D A Yes 1  Ethylene glycol phanyl ethor  ETH 32 D D A Yes 1  Ethylene glycol phanyl ethor  ETH 32 D D A Yes 1  Ethylene glycol phanyl ethor  Ethylene glycol phanyl ethor  Ethylene glycol phanyl ethor  ETH 32 D D A Yes 1  Ethylene glycol phanyl ethor  Ethylene glycol phanyl ethor  Ethylene glycol phanyl ethor  ETH 32 D D A Yes 1  Ethylene glycol phanyl ethor  Et | Ethyl cyclohexane                                        | ECY | 31              | D       | D     |       | Α                      | Yes      | 1       |          |   |  |
| Eftylene glycol facetato                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Ethylene glycol                                          | EGL | 20 <sup>2</sup> | D       | E     | +     | Α                      | Yes      | 1       |          |   |  |
| Ethylene glycol phenyl ether                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Ethylene glycol butyl ether acetate                      | EMA | 34              | D       | Е     |       | Α                      | Yes      | 1       |          |   |  |
| EHys-bethoxypropionate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Ethylene glycol diacetate                                | EGY | 34              | D       | E     |       | Α                      | Yes      | 1       |          |   |  |
| Petry (propionate   EPK   20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Ethylene glycol phenyl ether                             | EPE | 40              | D       | Е     |       | Α                      | Yes      | 1       |          |   |  |
| Ethyl propionate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Ethyl-3-ethoxypropionate                                 | EEP | 34              | D       | D     |       | Α                      | Yes      | 1       |          |   |  |
| Etyl toluene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2-Ethylhexanol                                           | EHX | 20              | D       | E     |       | Α                      | Yes      | 1       |          |   |  |
| Furtury alcohol                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Ethyl propionate                                         | EPR | 34              | D       | С     |       | Α                      | Yes      | 1       |          |   |  |
| Full   FAL   20   2   D   E                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Ethyl toluene                                            | ETE | 32              | D       | D     |       | Α                      | Yes      | 1       |          |   |  |
| Gascline blending stocks: Alkylates                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Formamide                                                | FAM | 10              | D       | E     |       | Α                      | Yes      | 1       |          |   |  |
| Gasoline blending stocks: Reformates                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Furfuryl alcohol                                         | FAL | 20 <sup>2</sup> | D       | E     |       | Α                      | Yes      | 1       |          |   |  |
| Gasolines: Automotive (containing not over 4.28 grams lead per gallon)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Gasoline blending stocks: Alkylates                      | GAK | 33              | D       | A/C   |       | Α                      | Yes      | 1       |          |   |  |
| Gallon   Gasolines: Aviation (containing not over 4.86 grams of lead per gallon   GAV   33   D   C   A   Yes   1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Gasoline blending stocks: Reformates                     | GRF | 33              | D       | A/C   |       | Α                      | Yes      | 1       |          |   |  |
| Gasolines: Casinghead (natural)   GCS   33   D   A/C   A   Yes   1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                          | GAT | 33              | D       | С     | ¥ 125 | Α                      | Yes      | 1       | # H = ## |   |  |
| Gasolines: Polymer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                          | GAV | 33              | D       | С     |       | Α                      | Yes      | 1       |          | - |  |
| Gasolines: Straight run   GSR   33   D   A/C   A   Yes   1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Gasolines: Casinghead (natural)                          | GCS | 33              | D       | A/C   |       | Α                      | Yes      | 1       |          |   |  |
| Glycerine   GCR   20 2   D   E   A   Yes   1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Gasolines: Polymer                                       | GPL | 33              | D       | A/C   |       | Α                      | Yes      | 1       |          |   |  |
| Heptane (all isomers), see Alkanes (C6-C9) (all isomers)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Gasolines: Straight run                                  | GSR | 33              | D       | A/C   |       | Α                      | Yes      | 1       |          |   |  |
| Heptanoic acid   HEP   4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Glycerine                                                | GCR | 20 <sup>2</sup> | D       | E     |       | Α                      | Yes      | 1       |          |   |  |
| Heptanol (all isomers)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Heptane (all isomers), see Alkanes (C6-C9) (all isomers) | HMX | 31              | D       | С     |       | Α                      | Yes      | 1       |          |   |  |
| Heptyl acetate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Heptanoic acid                                           | HEP | 4               | D       | E     | U     | Α                      | Yes      | 1       |          |   |  |
| Hexane (all isomers), see Alkanes (C6-C9)         HXS         31 2 D B/C         A Yes 1           Hexanoic acid         HXO         4 D E A Yes 1           Hexanol         HXN         20 D D A Yes 1           Hexylene glycol         HXG         20 D E A Yes 1           Isophorone         IPH 18 2 D E A 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           Kerosene         KRS 33 D D A Yes 1           Methyl acetate         MTT 34 D D A Yes 1           Methyl alcohol         MAL 20 2 D C A Yes 1           Methylamyl acetate         MAC 34 D D A Yes 1           Methylamyl alcohol         MAA 20 D D A Yes 1           Methylamyl ketone         MAK 18 D D A Yes 1           Methyl letrt-butyl ether         MBE 41 2 D C A Yes 1           Methyl butyrate         MBU 34 D C A Yes 1           Methyl ethyl ketone         MEK 18 D C A Yes 1           Methyl ethyl ketone         MEK 18 D C A Yes 1           Methyl butyrate         MBU 34 D C A Yes 1           Methyl ethyl ketone         MEK 18 D C A Yes 1           Methyl ethyl ketone         MEK 18 D D A Yes 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Heptanol (all isomers)                                   | HTX | 20              | D       | D/E   |       | Α                      | Yes      | 1       |          |   |  |
| Hexanoic acid         HXO         4         D         E         A         Yes         1           Hexanoi         HXN         20         D         D         A         Yes         1           Hexylene glycol         HXG         20         D         E         A         Yes         1           Isophorone         IPH         18²         D         E         A         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           Kerosene         KRS         33         D         D         A         Yes         1           Methyl acetate         MTT         34         D         D         A         Yes         1           Methyl alcohol         MAL         20²         D         C         A         Yes         1           Methylamyl alcohol         MAA         20         D         D         A         Yes         1           Methylamyl ketone         MAK         18         D         D         A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Heptyl acetate                                           | HPE | 34              | D       | Е     |       | Α                      | Yes      | 1       |          |   |  |
| Hexanol                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Hexane (all isomers), see Alkanes (C6-C9)                | HXS | 31 <sup>2</sup> | D       | B/C   |       | Α                      | Yes      | 1       |          |   |  |
| Hexylene glycol                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Hexanoic acid                                            | HXO | 4               | D       | E     |       | Α                      | Yes      | 1       |          |   |  |
| Sophorone                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Hexanol                                                  | HXN | 20              | D       | D     |       | Α                      | Yes      | 1       |          |   |  |
| Jef fuel: JP-4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Hexylene glycol                                          | HXG | 20              | D       | E     |       | Α                      | Yes      | 1       |          |   |  |
| JPV   33   D   D   A   Yes   1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Isophorone                                               | IPH | 18 <sup>2</sup> | D       | Ε     |       | Α                      | Yes      | 1       |          |   |  |
| Kerosene         KRS         33         D         D         A         Yes         1           Methyl acetate         MTT         34         D         D         A         Yes         1           Methyl alcohol         MAL         20°         D         D         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         MBE         41°         D         C         A         Yes         1           Methyl butyl ketone         MBK         18         D         C         A         Yes         1           Methyl ethyl ketone         MBU         34         D         C         A         Yes         1           Methyl hetyl ketone         MEK         18°         D         C         A         Yes         1           Methyl betyl ketone         MHK         18         D         D<                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Jet fuel: JP-4                                           |     | 33              | D ·     | E     |       | Α                      | Yes      | 1       | 15.      |   |  |
| Methyl acetate         MTT         34         D         D         A         Yes         1           Methyl alcohol         MAL         20 ° D         D         C         A         Yes         1           Methylamyl acetate         MAC         34 ° D         D         D         A         Yes         1           Methylamyl alcohol         MAA         20 ° D         D         D         A         Yes         1           Methyl amyl ketone         MAK         18 ° D         D         A         Yes         1           Methyl tert-butyl ether         MBE         41 ° D         C         A         Yes         1           Methyl butyl ketone         MBK         18 ° D         C         A         Yes         1           Methyl ethyl ketone         MEK         18 ° D         C         A         Yes         1           Methyl heptyl ketone         MEK         18 ° D         D         C         A         Yes         1           Methyl heptyl ketone         MEK         18 ° D         D         A         Yes         1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Jet fuel: JP-5 (kerosene, heavy)                         | JPV | 33              | D       | D     |       | Α                      | Yes      | 1       |          |   |  |
| Methyl alcohol         MAL         20 ° 2 D C         A Yes 1           Methylamyl acetate         MAC         34 D D D A Yes 1           Methylamyl alcohol         MAA 20 D D D A Yes 1           Methyl amyl ketone         MAK 18 D D A Yes 1           Methyl tert-butyl ether         MBE 41 ° D C A Yes 1           Methyl butyl ketone         MBK 18 D C A Yes 1           Methyl butyrate         MBU 34 D C A Yes 1           Methyl ethyl ketone         MEK 18 ° D C A Yes 1           Methyl ethyl ketone         MEK 18 ° D C A Yes 1           Methyl hetyl ketone         MEK 18 ° D C A Yes 1           Methyl hetyl ketone         MHK 18 D D A Yes 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Kerosene                                                 | KRS | 33              | D       | D     |       | Α                      | 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         MBE         41 2         D         C         A         Yes         1           Methyl butyl ketone         MBK         18         D         C         A         Yes         1           Methyl ethyl ketone         MEK         18 2         D         C         A         Yes         1           Methyl heptyl ketone         MHK         18         D         D         A         Yes         1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Methyl acetate                                           | MTT | 34              | D       | D     |       | Α                      | 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         MBE         41 2         D         C         A         Yes         1           Methyl butyl ketone         MBK         18         D         C         A         Yes         1           Methyl ethyl ketone         MEK         18 2         D         C         A         Yes         1           Methyl heptyl ketone         MHK         18         D         D         A         Yes         1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Methyl alcohol                                           | MAL | 20 <sup>2</sup> | D       | С     |       | Α                      | Yes      | 1       |          |   |  |
| Methyl amyl ketone         MAK         18         D         D         A         Yes         1           Methyl tert-butyl ether         MBE         41 ° D         C         A         Yes         1           Methyl butyl ketone         MBK         18         D         C         A         Yes         1           Methyl butyrate         MBU         34         D         C         A         Yes         1           Methyl ethyl ketone         MEK         18 ° D         D         C         A         Yes         1           Methyl heptyl ketone         MHK         18         D         D         A         Yes         1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Methylamyl acetate                                       | MAC | 34              | D       | D     |       | Α                      | Yes      | 1       |          |   |  |
| Methyl tert-butyl ether         MBE         41 ° D         C         A         Yes         1           Methyl butyl ketone         MBK         18 D         C         A         Yes         1           Methyl butyrate         MBU         34 D         C         A         Yes         1           Methyl ketone         MEK         18 ° D         C         A         Yes         1           Methyl heptyl ketone         MHK         18 D         D         D         A         Yes         1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Methylamyl alcohol                                       | MAA | 20              | D       | D     |       | Α                      | Yes      | 1       |          |   |  |
| Methyl butyl ketone         MBK         18         D         C         A         Yes         1           Methyl butyrate         MBU         34         D         C         A         Yes         1           Methyl ethyl ketone         MEK         18 2         D         C         A         Yes         1           Methyl heptyl ketone         MHK         18         D         D         A         Yes         1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Methyl amyl ketone                                       | MAK | 18              | D       | D     |       | Α                      | Yes      | 1       |          |   |  |
| Methyl butyrate         MBU         34         D         C         A         Yes         1           Methyl ethyl ketone         MEK         18 ²         D         C         A         Yes         1           Methyl heptyl ketone         MHK         18         D         D         A         Yes         1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Methyl tert-butyl ether                                  | MBE | 41 <sup>2</sup> | D       | С     |       | Α                      | Yes      | 1       |          |   |  |
| Methyl ethyl ketone         MEK         18 <sup>2</sup> D         C         A         Yes         1           Methyl heptyl ketone         MHK         18         D         D         A         Yes         1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Methyl butyl ketone                                      | MBK | 18              | D       | С     |       | Α                      | Yes      | 1       |          |   |  |
| Methyl heptyl ketone MHK 18 D D A Yes 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Methyl butyrate                                          | MBU | 34              | D       | С     |       | Α                      | Yes      | 1       |          |   |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Methyl ethyl ketone                                      | MEK | 18 <sup>2</sup> | D       | С     |       | Α                      | Yes      | 1       |          |   |  |
| Methyl isobutyl ketone MIK 18 <sup>2</sup> D C A Yes 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Methyl heptyl ketone                                     | MHK |                 | D       | Ð     |       | Α                      | Yes      | 1       |          |   |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Methyl isobutyl ketone                                   | MIK | 18 <sup>2</sup> | D       | С     |       | Α                      | Yes      | 1       |          |   |  |

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



Serial #: C1-1303585 Dated: 23-Oct-13

Certificate of Inspection

## Cargo Authority Attachment

Vessel Name: FMT 3094
Official #: D1127057

Page 6 of 8

Shipyard: Trinity Madisonville

| Cargo Identification                                    |              |                    |                |       |              | Conditions of Carriage |       |                 |                                                             |                 |  |  |
|---------------------------------------------------------|--------------|--------------------|----------------|-------|--------------|------------------------|-------|-----------------|-------------------------------------------------------------|-----------------|--|--|
|                                                         |              |                    |                |       |              | Vapor Recovery         |       |                 |                                                             |                 |  |  |
| Name                                                    | Chem<br>Code | Compat<br>Group No | Sub<br>Chapter | Grade | Hull<br>Type | Tank<br>Group          | App'd | VCS<br>Category | Special Requirements in 46 CFR<br>151 General and Mat'ls of | Insp.<br>Period |  |  |
| 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               |                                                             |                 |  |  |
| Naphtha: Heavy                                          | NAG          | 33                 | D              | #     |              | Α                      | Yes   | 1               |                                                             |                 |  |  |
| Naphtha: Petroleum                                      | PTN          | 33                 | D              | #     |              | Α                      | Yes   | 1               |                                                             |                 |  |  |
| Naphtha: Solvent                                        | NSV          | 33                 | D              | D     |              | Α                      | Yes   | 1               |                                                             |                 |  |  |
| Naphtha: Stoddard solvent                               | NSS          | 33                 | D              | D     |              | Α                      | Yes   | 1               |                                                             |                 |  |  |
| Naphtha: Varnish makers and painters (75%)              | NVM          | 33                 | D              | С     |              | A                      | Yes   | 1               |                                                             |                 |  |  |
| Nonane (all isomers), see Alkanes (C6-C9)               | NAX          | 31                 | D              | D     |              | A                      | Yes   | 1               |                                                             |                 |  |  |
| Nonyl alcohol (all isomers)                             | NNS          | 20 <sup>2</sup>    | 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              | С     | _            | A                      | Yes   | 1               |                                                             |                 |  |  |
| Octanoic acid (all isomers)                             | OAY          | 4                  | D              | E     | -            | A                      | Yes   | 1               |                                                             |                 |  |  |
| Octanol (all isomers)                                   | OCX          | 20 2               | D              | E     |              | A                      | Yes   | 1               |                                                             |                 |  |  |
| 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              | A/D   |              |                        | Yes   | 1               |                                                             |                 |  |  |
| Oil, misc: Diesel                                       | ODS          | 33                 | D              | D/E   | _            |                        |       |                 |                                                             |                 |  |  |
| Oil, misc: Gas, high pour                               | OGP          | 33                 | D              | E     | _            | Α                      | Yes   | 1               |                                                             |                 |  |  |
| Oil, misc: Lubricating                                  | OLB          | 33                 |                |       |              | A                      | Yes   |                 |                                                             |                 |  |  |
| Oil, misc: Residual                                     |              |                    | D              | Ē     |              | A                      | Yes   | 1               |                                                             |                 |  |  |
| <del></del>                                             | ORL          | 33                 | D              | E     |              | A                      | Yes   |                 |                                                             |                 |  |  |
| Oil, misc: Turbine                                      | OTB          | 33                 | D              | E     |              | Α                      | Yes   | 1               |                                                             |                 |  |  |
| n-Pentyl propionate                                     | PPE          | 34                 | D              | D     |              | A                      | Yes   | 1               |                                                             |                 |  |  |
| alpha-Pinene                                            | PIO          | 30                 | D              | D     |              | Α                      | Yes   | 1               |                                                             |                 |  |  |
| beta-Pinene                                             | PIP          | 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                 |                | E     |              | A                      | Yes   | 1               |                                                             |                 |  |  |
| Polybutene                                              | PLB          | 30                 | D              | E     |              | Α .                    | Yes   | 1               |                                                             |                 |  |  |
| Polypropylene glycol                                    | PGC          | 40                 | D              | E     |              | A                      | Yes   | 1               |                                                             |                 |  |  |
| iso-Propyl acetate                                      | IAC          | 34                 | D              | С     |              | A                      | Yes   | 1               |                                                             |                 |  |  |
| n-Propyl acetate                                        | PAT          | 34                 | D              | С     |              | Α                      | Yes   | 1               |                                                             |                 |  |  |
| iso-Propyl alcohol                                      | IPA          | 20 2               | D              | С     |              | A                      | Yes   | 1               |                                                             |                 |  |  |
| n-Propyl alcohol                                        | PAL          | 20 <sup>2</sup>    | 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 <sup>2</sup>    | D              | E     |              | Α                      | Yes   | 1               |                                                             |                 |  |  |
| Propylene glycol methyl ether acetate                   | PGN          | 34                 | D              | D     |              | A                      | Yes   | 1               |                                                             |                 |  |  |
| Propylene tetramer                                      | PTT          | 30                 | D              | D     |              | Α                      | Yes   | 1               |                                                             |                 |  |  |
| Sulfolane                                               | SFL          | 39                 | D              | E     |              | Α                      | Yes   | 1               |                                                             |                 |  |  |
| Tetraethylene glycol                                    | TTG          | 40                 | D              | E     |              | Α                      | Yes   | 1               |                                                             |                 |  |  |
| Tetrahydronaphthalene                                   | THN          | 32                 | D              | Ε ∜   |              | Α                      | Yes   | 11              |                                                             |                 |  |  |
| 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              | E     |              | Α                      | Yes   | 1               |                                                             |                 |  |  |



Serial #: C1-0201138 Generated: 16-Apr-02

# Certificate of Inspection

Cargo Authority Attachment

Shipyard: Trinity Madisonville

Hull

Hull #: 2107-5

| Official #: D1127057 | Page 6 of 7 |
|----------------------|-------------|

Vessel Name: FMT 3094

| Cargo Identification                                    |              |                    |                |       |              |               | Conditions of Carriage |                 |                                                                          |  |  |
|---------------------------------------------------------|--------------|--------------------|----------------|-------|--------------|---------------|------------------------|-----------------|--------------------------------------------------------------------------|--|--|
|                                                         |              |                    |                |       |              |               | 2.                     | Recovery        |                                                                          |  |  |
| Name                                                    | Chem<br>Code | Compat<br>Group No | Sub<br>Chapter | Grade | Type<br>Type | Tank<br>Group | App'd<br>(Y or N)      | VCS<br>Category | Special Requirements in 46 CFR 151<br>General and Mat'ls of Construction |  |  |
| 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)                                   | OCX          | 20 <sup>2</sup>    | D              | Е     |              | Α             | Yes                    | 1               |                                                                          |  |  |
| Octene (all isomers)                                    | OTX          | 30                 | D              | С     |              | Α             | Yes                    | 2               |                                                                          |  |  |
| Oil, fuel: No. 2                                        | OTW          | 33                 | D              | D/E   |              | Α             | Yes                    | 1               |                                                                          |  |  |
| Oil, fuel: No. 4                                        | OFR          | 33                 | D              | D/E   |              | Α             | Yes                    | 1               |                                                                          |  |  |
| Oil, fuel: No. 5                                        | OFV          | 33                 | D              | D/E   |              | Α             | Yes                    | 1               |                                                                          |  |  |
| Oil, fuel: No. 6                                        | OSX          | 33                 | D              | Ε     |              | Α             | Yes                    | 1               |                                                                          |  |  |
| Oil, misc: Crude                                        | OIL          | 33                 | D              | C/D   |              | Α             | Yes                    | 1               |                                                                          |  |  |
| Oil, misc: Diesel                                       | QDS          | 33                 | D              | D/E   |              | Α             | Yes                    | 1               |                                                                          |  |  |
| Oil, misc: Lubricating                                  | OLB          | 33                 | D              | E     |              | Α             | Yes                    | 1               |                                                                          |  |  |
| Oil, misc: Turbine                                      | ОТВ          | 33                 | D              | Е     |              | Α             | Yes                    | 1               |                                                                          |  |  |
| alpha-Pinene                                            | PIO          | 30                 | D              | D     |              | Α             | Yes                    | 1               |                                                                          |  |  |
| beta-Pinene                                             | PIP          | 30                 | D              | D     |              | Α             | Yes                    | 1               |                                                                          |  |  |
| Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether         | PAG          | 40                 | D              | Е     |              | 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              | С     |              | Α             | Yes                    | 1               |                                                                          |  |  |
| n-Propyl acetate                                        | PAT          | 34                 | D              | С     |              | Α             | Yes                    | 1               |                                                                          |  |  |
| iso-Propyl alcohol                                      | IPA          | 20 <sup>2</sup>    | D              | C     |              | A             | Yes                    | 1               |                                                                          |  |  |
| n-Propyl alcohol                                        | PAL          | 20 <sup>2</sup>    | D              | C     |              | A             | Yes                    | 1               |                                                                          |  |  |
| Propylbenzene (all isomers)                             | PBY          | 32                 | D              | D     |              | Α             | Yes                    | 1               |                                                                          |  |  |
| iso-Propylcyclohexane                                   | IPX          | 31                 | D              | D     |              | A             | Yes                    | 1               |                                                                          |  |  |
| Propylene glycol                                        | PPG          | 20 <sup>2</sup>    | D              | E     |              | A             | Yes                    | 1               |                                                                          |  |  |
| Propylene glycol methyl ether acetate                   | PGN          | 34                 |                |       |              | A             | Yes                    | 1               |                                                                          |  |  |
| Propylene tetramer                                      | PTT          | 30                 | D              | D     |              | A             | Yes                    | 1               |                                                                          |  |  |
| Sulfolane                                               | SFL          | 39                 | D              | E     |              | A             | Yes                    | 1               |                                                                          |  |  |
| Tetraethylene glycol                                    | TTG          | 40                 | D              | E     |              | A             | Yes                    | 1               |                                                                          |  |  |
| Tetrahydronaphthalene                                   | THN          | 32                 | D              | E     |              | A             | Yes                    | 1               |                                                                          |  |  |
| Toluene                                                 | TOL          | 32                 | D              | C     |              | A             | Yes                    | 1               |                                                                          |  |  |
|                                                         | TCP          | 34                 | D              | E     |              | A             | Yes                    | 1               |                                                                          |  |  |
| Tricresyl phosphate (less than 1% of the ortho isomer)  | TEB          | 32                 | D              | E     |              | A             | Yes                    | 1               |                                                                          |  |  |
| Triethylbenzene                                         | TEG          | 40                 | D              | E     |              | A             | Yes                    | 1               |                                                                          |  |  |
| Triethylene glycol                                      | TPS          | 34                 | D              | E     | _            | A             | Yes                    | 1               |                                                                          |  |  |
| Triethyl phosphate                                      | TRE          | 32                 | D              | {D}   |              | A             | Yes                    | 1               |                                                                          |  |  |
| Trimethylbenzene (all isomers)                          |              |                    | D              | {D}   |              |               | Yes                    | 1               |                                                                          |  |  |
| Trixylenyl phosphate                                    | TRP          | 34                 |                |       |              | A             | Yes                    |                 |                                                                          |  |  |
| Undecene                                                | UDC          | 30                 | D              | D/E   |              | A             |                        | 1               |                                                                          |  |  |
| 1-Undecyl alcohol                                       | UND          | 20                 | D              | E     |              | A             | Yes                    | 11              |                                                                          |  |  |
| Xylenes (ortho-, meta-, para-)                          | XLX          | 32                 | D              | D     |              | Α             | Yes                    | 1               |                                                                          |  |  |



Serial #: C1-1303585

23-Oct-13



## Certificate of Inspection

Cargo Authority Attachment

Vessel Name: FMT 3094 Official #: D1127057

Page 8 of 8

Shipyard: Trinity Madison

Hull #: 2107-5

#### Explanation of terms & symbols used in the Table:

Cargo Identification

Chem Code

The proper shipping name as listed in 46 CFR Table 30,25-1, 46 CFR Table 151,05, and 46 CFR Part 153 Table 2.

The three letter designation assigned to the cargo in the Chemical Hazards Response Information System (CHRIS) Manual

Certain mixtures of cargoes may not have a CHRIS Code assigned. Compatability Group No.

The cargo reactive group number assigned for compatibility determinations in 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 Chart. For additional compatibility information, contact Commandant (CG-3PSO-3), U.S. Coast Guard, 2100 Second Street, SW, Washington, DC 20593-

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

Subchapter Subchapter D Subchapter O Note 3

Note 4

Note 1 Note 2

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

NA

Hull Type

NA

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 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 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 Vacor Recoven 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 Recoven 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 35.35 and 46 CFR 39. The cargo tank venting system calculations (46 CFR 39.20-11) and the pressure drop calculations (46 CFR 39.30-1(b)) must use appropriate friction factors, vapor densities and vapor growth rates.

Category 2

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

Category 3

(Highly toxic) VCSs for these toxic cargoes cannot use a spill valve or rupture disk as the primary means to meet the overfill protection requirement of 46 CFR 39,20-9. This requirement is in addition to the requirements of Category 1.

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 Manne 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.