

Vessel Name

KIRBY 28716

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

Certification Date: 02 Nov 2022 Expiration Date: 02 Nov 2023

Service

Tank Barge

Temporary Certificate of Inspection

For ships on international voyages this certificate fulfills the requirements of SOLAS 74 as amended, regulation V/14, for a SAFE MANNING DOCUMENT.

IMO Number

Call Sign

This Temporary Certificate of Inspection is issued under the provision of Title 46 United States Code, Section 399, in lieu of the regular certificate of inspection, and shall be in force only until the receipt on board said vessel of the original certificate of inspection, this certificate in no case to be valid after one year from the date of inspection.

Official Number

1239856

Hailing Port			Hull Materia	al	Horsep	ower	Propulsion			
GIBSON, LA			Steel							
UNITED STA	ATES									
Place Built MADISONV	III = 1 A		Delivery Date	Keel Laid Da	ate	Gross Tons	Net Tons	DWT	Length	
MADISONV	ILLE, LA		27Jul2012	2 20Jun20	12	R-1619	R-1619		R-297.5	
UNITED STA	ATES					F	I-		1-0	
Owner	ND MARINE II	D.			Operator	/ INII ANID	MARINETE			
	ND MARINE LI DR STE 1000	٢				AUGH DR	MARINE LP			
HOUSTON,						STON, TX				
UNITED STA	ATES				UNITE	ED STATE	S			
This vessel m	nust be manne	d with the fo	ollowina licens	ed and unlice	ensed	Personnel	Included in w	hich there	must be	
	feboatmen, 0 C									
0 Masters		0 Licensed M	ates 0 Ch	ief Engineers		0 0	ilers			
0 Chief Mate	es	0 First Class	Pilots 0 Fir	st Assistant Er	ngineers	5				
0 Second Ma	ates	0 Radio Offic	ers 0 Se	cond Assistant	t Engine	eers				
0 Third Mate	es	0 Able Seam	en 0 Th	ird Assistant E	ngineer	'S				
0 Master Firs	st Class Pilot	0 Ordinary So	eamen 0 Lic	ensed Enginee	ers					
0 Mate First	Class Pilots	0 Deckhands	0 Qu	ualified Member	r Engin	eer				
In addition, the Persons allow	nis vessel may wed: 0	carry 0 Pas	sengers, 0 Ot	her Persons	in cre	w, 0 Perso	ns in addition t	o crew, and	I no Others. To	otal
Route Pern	nitted And Co	nditions Of	Operation:							
Lakes,	Bays, and	Sounds-								
vessel is o salt water	has been gra perated in sa intervals per tatus occurs.	lt water m 46 CFR 31	ore than 6 m	onths in an	ny 12	month per	iod, the ves	sel must b	e inspected	using
Thermal flu	id heater may	only be o	perated when	carrying (	Grade	"E" cargo	es.			
This tank b (TBSIP). In	arge is parti spection acti	cipating i vities abo	n the Eighth ard this bar	Coast Gua ge shall be	rd Di: e con	strict's T ducted per	ank Barge St its Tank Ba	reamlined rge Action	Inspection P Plan (TAP).	rogram
***SEE NE	XT PAGE FO	R ADDITIC	NAL CERTI	FICATE INF	ORM	ATION***				
Inspection, N	ection for Cert larine Safety U rules and regu	nit Port Arth	nur certified th	e vessel, in a	ort Arth all resp	nur, TX, UN pects, is in	NITED STATES	S, the Office the applica	er in Charge, I able vessel ins	Marine spection
iawo and the		riodic/Re-In		iuci.	Th	is certificat	e issued by	)/	(/-	
Date	Zone	A/P/R		ature	] "		INAGAKI, GŚ	-13, USCG	By direction	
					Offic	er in Charge, Ma	arine Inspection			
							Marine Safet	v Unit Port	Arthur	

Inspection Zone



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

Certification Date: UZ NOV ZUZZ 02 Nov 2023 **Expiration Date:** 

## Temporary Certificate of Inspection

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Inspection issues concerning this barge should be directed to OCMI Houston-Galveston.

#### ---Hull Exams---

Exam Type

Next Exam

Last Exam

Prior Exam

DryDock

31Jul2032

02Nov2022

27Jul2012

Internal Structure

30Jun2027

02Nov2022

30Jun2017

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

Authorization:

FLAMMABLE/COMBUSTIBLE LIQUIDS AND SPECIFIED HAZARDOUS CARGOES

**Total Capacity** 

Highest Grade Type Part151 Regulated Part153 Regulated Part154 Regulated

28161

Units Barrels

Yes

No

No

### \*Hazardous Bulk Solids Authority\*

### \*Loading Constraints - Structural\*

Tank Numb	per
1.0/0	

Max Cargo Weight per Tank (short tons)

Maximum Density (lbs/gal)

1 P/S

845

13.6

2 P/S 3 P/S 857 687 13.6 13.6

#### \*Loading Constraints - Stability\*

Hull T	уре
--------	-----

Maximum Load (short tons)

Maximum Draft (ft/in)

Max Density (lbs/gal)

Route Description

11

3739

10ft 0in

13.6

111

4550

11ft 9in

13.6

#### \*Conditions Of Carriage\*

Only those specified hazardous cargoes named in the vessel's Cargo Authority Attachment (CAA), serial #C1-1302823, dated 20Aug13 may be carried. The specified hazardous cargoes may be carried only in the tanks indicated.

Per 46 CFR 150.130, the person in charge of the vessel is responsible for ensuring the compatibility requirements of 46 CFR 150 are met. Cargoes must be checked for compatibility using figures, tables, and appendices of 46 CFR 150 in conjunction with the reactive group number from the "Compat Group No" column is listed in the vessel's CAA.

When the vessel is carrying cargoes containing 0.5% or greater benzene by volume, the person in charge is responsible for ensuring the provisions of 46 CFR 197, Subpart C, are applied.

#### \*Vapor Control Authorization\*

Per 46 CFR, 39, excluding Part 39,4000, this vessel's vapor control system has been inspected to the plans approved by Marine Safety Center letter serial #C1-1202856 dated 06Jun12, and found acceptable for collection of bulk liquid cargo vapors annotated with "Yes" in the CAA's VCS column.

Per 46 CFR Part 39.1017 and 39.5000(e) this vessel's VCS has been evaluated and approved for multi-breasted tandem loading with other vessels specifically approved to tandem load with this vessel.

\*Stability and Trim\*

Per 46 CFR 151.10(c) (2), the maximum tank weights listed above reflect uniform (within 5%) loading at the deepest draft allowed. When carrying Subchapter "O" cargoes at shallower drafts, the barge should always be loaded uniformly.



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The maximum design density of cargo which may be filled to the tank top is 8.74 lbs/gal. Cargoes with higher densities, up to 13.6 lbs/gal, may be carried as slack loads, but shall not exceed the tank weight limits as listed above.

The vessel is inspected and approved for the carriage of Grade "E" combustible liquids when transported in molten form at elevated temperatures.

### --- Inspection Status ---

#### \*Cargo Tanks\*

	Internal Exam			External Exa	ım	
Tank Id	Previous	Last	Next	Previous	Last	Next
1 P/S	27Jul2012	02Nov2022	31Jul2032	=>	<del>-</del>	· =.
2 P/S	27Jul2012	02Nov2022	31Jul2032	-	=	-
3 P/S	27Jul2012	02Nov2022	31Jul2032	-	<b>=</b> 1	
			Hydro Test			
Tank Id	Safety Valves		Previous	Last	Next	
1 P/S			-	•	*	
2 P/S	-		*	•	=	
3 P/S	-		-	~	-	

### --- Conditional Portable Fire Extinguisher Requirements---

Required Only During Transfer of Cargo or Operation of Barge Machinery

### --- Fire Fighting Equipment ---

\*Fire Extinguishers - Hand portable and semi-portable\*

Quantity

Class Type

3

40-B

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



Cargo Authority Attachment

Vessel Name: SMI 30032

Shipyard: Trinity Marine

Madisonville

C1-1302823

Hull #: 2203-1

Official #: 1239856

46 CFR 151 Tank (	Group C	Chara	cterist	tics					1 <u>-</u>				1			т	<u> </u>
Tank Group Information	Cargo Id	dentificat	ion				Tanks		Carg Tran		Control	nmental	Fire	Special Require	ments		
Tnk Grp Tanks in Group	Density	Press.	Temp.	Hull Typ	Cargo Seg Tank	Туре	Vent	Gauge	Pipe Class	Cont	Tanks	I ranumy	Protection Provided	General	Materials of Construction		Temp Cont
A #1P/S, #2P/S, #3P/S	13.6	Atmos.	Elev	11	1ii 2ii	Integral Gravity	PV	Closed	, II	G-1	NR	NA .	Portable	40-1(f)(1), .50-60, .50-70(a), .50-70(b), .50-73, .50-81(a), .50-81(b),	(c), (d), (e), (f), (g),	NR	. No

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

2. Under Environmental Control, Handling Space, NR means that the tank group is suitable only for those cargoes which require no environmental control in the cargo handling space. NA means that the vessel does not have a cargo control space, and this requirement is not applied.

3. Under Electrical Hazard Class, NA means that the tank group is suitable only for those cargoes which have no electrical hazard class requirement. NR means that the vessel has no electrical equipment located in a hazardous location.

**List of Authorized Cargoes** 

Cargo Identificatio	n						. 1	Condi	tions of Carriage	
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	Vapor Re App'd (Y or N)	covery VCS Category	Special Requirements in 46 CFR 151 General and Mat'ls of	Insp. Perio
Authorized Subchapter O Cargoes										
Acetonitrile	ÁTN	37	0	С	Ш	Α	Yes	3	No	G.
Adiponitrile	ADN	37	0	E	11	Α	Yes	1	No	G
Alkyl(C7-C9) nitrates	AKN	34 <sup>2</sup>	0	NA	Ш	Α	No	N/A	.50-81, .50-86	G
Anthracene oil (Coal tar fraction)	AHO	33	0	NA	П	Α	No	N/A	•	G
Benzene	BNZ	32	0	С	111	Α	Yes	1	.50-60	G
Benzene or hydrocarbon mixtures (having 10% Benzene or more)	внв	32 <sup>2</sup>	,0	С	Ш	Α	Yes	1	.50-60	G
Benzene, Toluene, Xylene mixtures (10% Benzene or more)	BTX	. 32	0	B/C	Ш	Α	Yes	1	,50-60	G
Butyl acrylate (all isomers)	BAR	14	0	D	111	Α	Yes	2	.50-70(a), .50-81(a), (b)	G
Butyl methacrylate	вмн	14	0	D	III	Α	Yes	2	.50-70(a), .50-81(a), (b)	G
Butyraldehyde (all isomers)	BAE	19	0	С	111	Α	Yes	1	.55-1(h)	G
Camphor oil (light)	CPO	18	.0	D	il	Α	No	N/A	No	G
Carbon tetrachloride	CBT	36	0	NA	III	Α	No	N/A	No	G
Caustic potash solution	CPS	5 <sup>2</sup>	0	NΑ	III	· A	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)	COE	21	0	E	1)	Α	No	N/A	.50-73	G
Chlorobenzene	CRB	36	0	D	Ш	Α	Yes	1	No	G
Chloroform	CRF	36	0	NA	111	Α	Yes	3	No	Ģ
Coal tar naphtha solvent	NCT	33	. 0	D	III	: A	Yes	1	.50-73	G
Coal tar pitch (molten)	CTP	33	0	E	111	A	No	N/A	.50-73	G
Creosote	CCV	V 21 <sup>2</sup>	. 0	Ε	Ш	Α	Yes	. 1	No	G
Cresols (all isomers)	CRS		0	E	IH.	Α	Yes	1	No	G
Crotonaldehyde	CTA		0	С	- 11	Α.	No	N/A	,55-1(h)	G
Crude hydrocarbon feedstock (containing Butyraldehydes and Ethylpropyl acrolein)	CHG	3	0	С	· III	Α	No	N/A	No No	G
1,1-Dichloroethane	DCH	36	0	С	Ш	Α	Yes	1.	No	G
Dichloromethane	DCN	1 36	0	NA	111	À	Yes	5	No .	G
1,1-Dichloropropane	DPB	36	0	С	111	Α	Yes	3	No	G
1,2-Dichloropropane	DPP	36	0	С	Ш	Α	Yes	3	No	G
1,3-Dichloropropane	DPC	36	0	С	Ш	Α	Yes	3	No	G
1,3-Dichloropropene	DPL	15	0	. D	11	Α	No	N/A	4 No	G
Dichloropropene, Dichloropropane mixtures	DMX	〈 15	0	C	II	Α	Yes	s 1	No	G
Dodecyl diphenyl ether disulfonate solution	DOS	3 43	0	#	П	Α	No	N//	Ą No	G

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



# Certificate of Inspection Cargo Authority Attachment

Vessel Name: SMI 30032

Shipyard: Trinity Marine

Madisonville

Hull #: 2203-1

Official #: 1239856

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Cargo Identification	Cargo Identification												
	0'	0	C		ши	Tank	Vapor R App'd	ecovery VCS	Special Requirements in 46 CFR	Insp.			
Name	Chem	Compat Group No	Sub Chapter	Grade	Hull Type	Group	(Y or N)	Category	151 General and Mat'ls of	Perio			
Ethyl acrylate	EAC	14	0	С	ill	Α .	Yes	2	.50-70(a), .50-81(a), (b)	G			
Ethylene cyanohydrin	ETC	20	0	E	Ш	Α	Yes	1	No	G			
Ethylene dichloride	EDC	36 <sup>2</sup>	0	С	111	Α	Yes	1	No .	G			
Ethylene glycol hexyl ether	EGH	40	0	E	Ш	Α	No	N/A	No	G			
Ethylene glycol monoalkyl ethers	EGC	40	0	D/E	111	Α	Yes	1	No	-			
Ethylene glycol propyl ether	EGP	40	0	E		A	Yes	1	No	G			
2-Ethylhexyl acrylate	EAI	14	0	E	Ш	Α	Yes	2	.50-70(a), .50-81(a), (b)	G			
Ethyl methacrylate	ETM	14	0	D/E	111	Α	Yes	2	.50-70(a)	G			
2-Ethyl-3-propylacrolein	EPA	19 <sup>2</sup>	0	E	Ш	A	Yes	1	No	G			
Formaldehyde solution (37% to 50%)	FMS	19 <sup>2</sup>	0	D/E	Ш	Α	Yes	. 1	,55-1(h)	G			
-urfural	.FFA	19	0	D	Ш	Α .	Yes	1	.55-1(h)	G			
Glutaraldehyde solution (50% or less)	GTA	19	0	NA	Ш	· A	No	N/A		G			
Hydrocarbon 5-9	HFN		0	С	111	Α	Yes	1	.50-70(a), .50-81(a), (b)	G .			
soprene	IPR	30	0	Α	. III	A	Yes	7	.50-70(a), .50-81(a), (b)	. G			
Kraft pulping liquors (free alkali content 3% or more)(including: Bla Green, or White liquor)	ack, KPL	5	0	NA	111	Α	No	N/A		G			
Mesityl oxide	MSO	18 <sup>2</sup>	0	D	Ш	Α	Yes	1	No	G			
Methyl acrylate	MAM	14	0	С	Ш	Α	Yes	2	.50-70(a), .50-81(a), (b)	G			
Methylcyclopentadiene dimer	MCK	30	0	С	III	Α	Yes	1	No .	G			
Methyl methacrylate	MMM	14	0	С	#1	Α	Yes	2	.50-70(a), .50-81(a), (b)	G			
ipha-Methylstyrene	MSR	30 ·	0	D	111	A	Yes	. 2	.50-70(a), .50-81(a), (b)	G			
- or 2-Nitropropane	NPM	42	0	D	III	Α	Yes	1	.50-81	G			
,3-Pentadiene	PDE	30	0	Α	Ш	Α	Yes	7	.50-70(a), .50-81	G			
Perchloroethylene	PER	36	0	NA	Ш	Α	No	N/A	No	G			
Phthalic anhydride (molten)	PAN	11	0	Е	111	Α	Yes	. 1	No	G			
Sodium acetate, Glycol, Water mixture (3% or more Sodium Hydr	oxide) SAP		0		111	Α	No	N/A	.50-73, .55-1(j)	G			
Sodium chlorate solution (50% or less)	SDD	0 1,2	0	NA	Ш	A	No	N/A	.50-73	G			
Styrene (crude)	STX	-	0	D	Ш	Α	Yes	2	No	G			
Styrene monomer	STY	30	0	D	Ш	Α	Yes	2	.50-70(a), .50-81(a), (b)	G			
1,1,2,2-Tetrachloroethane	TEC	36	0	NA	III	, A	No	N/A	No No	G			
Fetrahydrofuran	THF	41	0	С	III	A	Yes	. 1	.50-70(ь)	G			
1,2,4-Trichlorobenzene	ТСВ	36	0	Е	Ш	Α	Yes	1	No	G			
1,1,2-Trichloroethane	ТСМ	36	0	NA	Ш	Α	Yes	. 1	.50-73, .56-1(a)	G			
Trichloroethylene	TCL	36 <sup>2</sup>	0	NA	HI	Α	Yes	1	No	G			
1,2,3-Trichloropropane	TCN	36	0	Ε	ii	Α	Yes	3,	.50-73, .56-1(a)	G			
Trisodium phosphate solution	TSP	5	0	NA	Ш	A	No	N/A	.50-73, .56-1(a), (c).	G			
Vanillin black liquor (free alkali content, 3% or more).	VBL	5	. 0	NA	111	Α	No	N/A	.50-73, .56-1(a), (c), (g)	G			
Vinyl acetate	VAM	13	0	С	111	Α	Yes	2	.50-70(a), .50-81(a), (b)	G			
vinyl neodecanate	VND	13	0	Е	III	. А	No	N/A	, .50-70(a), .50-81(a), (b)	G			
ubchapter D Cargoes Authorized for Vapor Cor	-												
Acetone	ACT	18 <sup>2</sup>	. D	C		Α .	Yes	1					
Acetophenone	ACP	18	D	E		A	Yes	1					
Alcohol(C12-C16) poly(1-6)ethoxylates	APU	20		E		A	Yes	1					
Alcohol(C6-C17)(secondary) poly(7-12)ethoxylates	AEB	20	. D	E		A	Yes	-1		<del></del>			
Amyl acetate (all isomers)	AEC	34	D	.D		Α	Yes	1					
Amyl alcohol (iso-, n-, sec-, primary)	AAI	20	D	D		<u> </u>	Yes	1		····			
Benzyl alcohol	BAL	21	. D	E		Α	Yes	- 1					

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

C1-1302823



# Certificate of Inspection

Cargo Authority Attachment

Vessel Name: SMI 30032 Official #: 1239856

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Shipyard: Trinity Marine Madisonville

Hull #: 2203-1

Cargo Identification					- 1			Condi	tions of Carriage	
	Ι.	}	i					Recovery		
•	Chem Code	Compat Group No	Sub	Grade	Hull Type	Tank	(Y or N)	VCS Category	Special Requirements in 46 CFR 151 General and Mat'ls of	Insp.
Name rake fluid base mixtures (containing Poly(2-8)alkylene(C2-C3)	BFX	20	D	E	. , jpc .	Α	Yes	1		
lycols, Polyalkylene(C2-C10) glycol monoalkyl(C1-C4) ethers, and										
heir borate esters)	D 41/	•	_			۸	Vos	1		
Butyl acetate (all isomers)	BAX	34	D	D		A	Yes			
Butyl alcohol (iso-)	IAL	20 <sup>2</sup>	D	D _		A	Yes			
Butyl alcohol (n-)	BAN	20 <sup>2</sup>	D	D		Α.	Yes	1		
Butyl alcohol (sec-)	BAS	20 <sup>2</sup>	D	C		A	Yes	1		
Butyl alcohol (tert-)	BAT		D	C		A	Yes	1		
Butyl benzyl phthalate	BPH	34	D	E		A	Yes	1		
Butyl toluene	BUE	32	D	D		Α	Yes	1		
Caprolactam solutions	CLS	22	D	E		A	Yes	. 1		
Cyclohexane	CHX	31	D	С		Α	Yes	1		
Cyclohexanol	CHN	20	D	E		Α	Yes	11		
1,3-Cyclopentadiene dimer (molten)	CPD	30	D	D/E		Α	Yes	2		
p-Cymene	CMP	32	D	D		Α	Yes	1		
iso-Decaldehyde	IDA	19	D	E.		Α	Yes	1		
n-Decaldehyde	DAL	19.	D.	E		Α	Yes	1		
Decene	DCE	30	D	D		Α	Yes	1		
Decyl alcohol (all isomers)	DAX	20 <sup>2</sup>	D	E		A	Yes	1		
n-Decylbenzene, see Alkyl(C9+)benzenes	DBZ	32	D	E		- A	Yes	1		
A CONTRACTOR OF THE CONTRACTOR	DAA	20 <sup>2</sup>	D	 D		Α	Yes	. 1		
Diacetone alcohol	DPA	34	D	 E		A	Yes	1		
ortho-Dibutyl phthalate	DEB	32	D	D		<u>.</u> .`	Yes	1		
Diethylbenzene		40 <sup>2</sup>	D	E			Yes	1		
Diethylene glycol	DEG		D	.C	<del>'</del>		Yes	1		
Diisobutylene	DBL	30				** * * * * *				
Diisobutyl ketone	DIK	18	D	D		. A	Yes			
Diisopropylbenzene (all isomers)	DIX	32	D <sub>.</sub>	E		A	Yes	1		
Dimethyl phthalate	DTL	34	D	E		Α	Yes	1		
Dioctyl phthalate	DOP	34	<u>D</u>	E		A	Yes			
Dipentene	DPN	30	D	D		Α	Yes			
Diphenyl	DIL	32	D	D/E		Α	Yes			
Diphenyl, Diphenyl ether mixtures	DDO	33	D	E		ΑΑ	Yes			
Diphenyl ether	DPE	41	D	{E}		A	Yes	1		
Dipropylene glycol	DPG	40	D	E		A	Yes	. 1		
Distillates: Flashed feed stocks	DFF	33	D	E		Α	Yes	1		
Distillates: Straight run	DSR	33	D	E.		Α	Yes	1		
Dodecene (all isomers)	DOZ	30	D	D		Α	Yes	1	•	
Dodecylbenzene, see Alkyl(C9+)benzenes	DDB	32	D	E		Α	Yes	1		
2-Ethoxyethyl acetate	EEA	34	D	D		Α	Yes	1		
Ethoxy triglycol (crude)	ETG	40	·D	Е		A	Yes	1		
Ethyl acetate	ETA	34	D	С		A	Yes	1		
Ethyl acetoacetate	EAA	34	. D	E		Α	Yes	1		
Ethyl alcohol	EAL	20 <sup>2</sup>	D	C		Α	Yes	1		
Ethylbenzene	ETB	32	D	С		Α	Yes	. 1		
Ethyl butanol	EBT	20		D		Α	Yes			
Ethyl tert-butyl ether	EBE	41	D	.c		A	Yes			
Ethyl butyrate	EBR	34	D	D.		A	Yes			
	ECY	31	D	D		A	Yes			
Ethyl cyclohexane Ethylene glycol	EGL	20 <sup>2</sup>	D	E		A	Yes			



Cargo Authority Attachment

Vessel Name: SMI 30032

Shipyard: Trinity Marine

Madisonville

Hull #: 2203-1

Official #: 1239856

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Cargo Identificatio	n							Condi	tions of Carriage
Odigo idonomodo		1	T	Ţ			Vapor I	Recovery	
	Chem	Compat	Sub	0	Hull	Tank	App'd	vcs	Special Requirements in 46 CFR Insp. 151 General and Mat'ls of Period
Name Ethylene glycol butyl ether acetate	. I Code EMA	Group No 34	Chapter D	Grade E	Type	Group A	(Y or N) Yes	Category 1	1 15 1 General and was is of the Ferrod
• • •	EGY	34	D	E		Α	Yes	1.	
Ethylene glycol diacetate	EPE	40	D	E		Α	Yes	1	
Ethylene glycol phenyl ether	EEP	34	D	D		Α	Yes	1	
Ethyl-3-ethoxypropionate	EHX	20	D	E		Α	Yes	1	
2-Ethylhexanol	EPR	34	D	C .		Α .	Yes	1	
Ethyl propionate	ETE	32	D			A	Yes	1	
Ethyl toluene	FAM	10	D	. E		A	Yes	1	
Formamide		20 <sup>2</sup>	D	E		A	Yes	1	
Furfuryl alcohol	FAL					. <u>^</u>	Yes	1	•
Gasoline blending stocks: Alkylates	GAK	33	D '	A/C A/C		$\frac{\Lambda}{\Lambda}$	Yes	<u>;</u> 1	
Gasoline blending stocks: Reformates	GRF	33					Yes	<u>- '</u> . . 1	
Gasolines: Automotive (containing not over 4.23 grams lead per gallon)	GAT	33	D 	С	<u></u>	A	165		
Gasolines: Aviation (containing not over 4.86 grams of lead per gallon)	GAV	33	D	С		Α	Yes	1	
Gasolines: Casinghead (natural)	GCS	33	D	A/C		Α	Yes	1	
Gasolines: Polymer	GPL	33	D	A/C		Α	Yes	1	
Gasolines: Straight run	GSR	33	D	A/C		Α	Yes	1	
Glycerine	GCR	20 <sup>2</sup>	D	E		Α	Yes	1	
Heptane (all isomers), see Alkanes (C6-C9) (all isomers)	НМХ	31	D	С		Α	Yes	: 1	
Heptanoic acid	HEP	4	D	E		Α	Yes	1	
Heptanol (all isomers)	HTX	20	D	D/E		Α	Yes	1	
Heptene (all isomers)	HPX	30	D	C		Α	Yes	2	
Heptyl acetate	HPE	34	D	E		Α	Yes	1	
Hexane (all isomers), see Alkanes (C6-C9)	HXS	31 <sup>2</sup>	D	B/C		Α	Yes	1	•
Hexanoic acid	нхо	4	D	E		A	Yes	1	
Hexanol	HXN	20	D	D		Α	Yes	1	
Hexene (all isomers)	HEX	30	D	С		Α	Yes	2	
Hexylene glycol	HXG	20	D	Ε		Α	Yes	1	
Isophorone	IPH	18 <sup>2</sup>	D	E		A	Yes	1	
Jet fuel: JP-4	JPF	33	D			Α	Yes	1	
Jet fuel: JP-5 (kerosene, heavy)	JPV	33		D		A	Yes	1	
Kerosene	KRS	33	D	D		A	Yes		
Methyl acetate	. MTT	34	D .	D		A	Yes	~	
Methyl alcohol	MAL	20 <sup>2</sup>	D			Α	Yes		A CASE OF A CASE
Methylamyl acetate	MAC		D	D		Α	Yes		•
	MAA		D	D		Α Α	Yes		and the second s
Methylamyi alcohol	MAK		D	D		A	Yes		
Methyl amyl ketone  Methyl tert-butyl ether	MBE		D	C		A	Yes		
Methyl butyl ketone	MBK		. D	c		A	Yes		
Methyl butyrate	MBU		D	<del>_</del>			Yes		
Methyl ethyl ketone	MEK		D	С		A	Yes		
Methyl heptyl ketone	MHK		. D	D		. ^	Yes		
	MIK	18 2	D	C			Yes		
Methyl isobutyl ketone			ם	E		A	Yes		
Methyl naphthalene (molten)	MNA					A A	Yes		
Mineral spirits	MNS		D	D					
Myrcene	MRE		D	D #		. A	Yes		
Naphtha: Heavy	NAG		<u>D</u>	#		. A	Yes		
Naphtha: Petroleum	PTN	33	D	#		Α	Yes	1	



## Cargo Authority Attachment

Vessel Name: SMI 30032

Shipyard: Trinity Marine

Madisonville

Hull #: 2203-1

Official #: 1239856

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Cargo Identification	on	1			1			Condi	tions of Carriage	
	<del></del>			T	T		Vapor I	Recovery		
•	Chem	Compat	Sub	Crada	Hull	Tank	App'd	VCS	Special Requirements in 46 CFR 151 General and Mat'ls of	Insp. Perio
Name Naphtha: Solvent	Code NSV	Group No 33	Chapter D	D	Туре	Group	(Y or N) Yes	Category 1	1 10   Gerlerat and wat is of	reno
	NSS	33	D	D		Α	Yes	1		
Naphtha: Stoddard solvent	NVM	33	 D	C		A	Yes	1		
Naphtha: Varnish makers and painters (75%)			D	D		A	Yes	1	•	
Nonane (all isomers), see Alkanes (C6-C9)	NAX	31					Yes	2		
Nonene (all isomers)	NON	30	D ·	D		Α		1	The second second second	
Nonyl alcohol (all isomers)	NNS	20 <sup>2</sup>		E		- A	Yes			
Nonyl phenol	NNP	21	D	E .		Α	Yes	1		
Nonyl phenol poly(4+)ethoxylates	NPE	40	D	E		Α.	Yes	1		
Octane (all isomers), see Alkanes (C6-C9)	OAX	31	D	С		Α	Yes	1		
Octanoic acid (all isomers)	OAY	4	D	E		Α	Yes	11		
Octanol (all isomers)	OCX	20 <sup>2</sup>	D	E		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. 2-D	OTD	33	D	D		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	E		Α	Yes	1		
Oil, misc: Crude	OIL	33	D	C/D		Α	Yes	1		
Oil, misc: Diesel	ODS	33	D	D/E		· A	Yes	1		
Oil, misc. Gas, high pour	OGP	33	D	E		Α	Yes	1		
	OLB	33	D			. A	Yes			
Oil, misc: Lubricating	ORL	33	D	<del>.</del> E			Yes			
Oil, misc: Residual	OTB	33		<u>_</u>		A	Yes			
Oil, misc: Turbine		• • • • • • • • • • • • • • • • • • • •				Ä.	Yes		en e	
Pentene (all isomers)	PTX	30		A			Yes			
n-Pentyl propionate	PPE	34	D	<u>D</u>		Α			***************************************	
alpha-Pinene	PIO	30		D		Α	Yes			
beta-Pinene	PIP	30	D	D		Α	Yes			
Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether	PAG	40	D	E		A	Yes			
Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether acetate	PAF	34	D	E		Α	Yes		· · · · · · · · · · · · · · · · · · ·	
Polybutene	PLB	30	D	E		A	Yes			
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	С		Α	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		A	Yes	. 1		
Propylene glycol methyl ether acetate	PGN	34	D	D		Α	Yes	4		
Propylene tetramer	PTT	30	D	D		A	Yes	1		
Sulfolane	SFL	39	 D	E.		Α	Yes			
Tetraethylene glycol	TTG	40	D	E		A	Yes			
Tetrahydronaphthalene	THN	32		, E		A .	Yes		, , , , , , , , , , , , , , , , , , , ,	
the control of the co	TOL	32	D	Ċ		A	Yes			
Toluene				E	<del></del>		Yes			
Tricresyl phosphate (less than 1% of the ortho isomer)	TCP	34								
Triethylbenzene	TEB	32	D	E		Α	Yes			
Triethylene glycol	TEG	40	D	E		Α	Yes			
Triethyl phosphate	TPS	34	D	E		A	Yes	. 1		



**United States Coast Guard** 

C1-1302823 Serial #:

20-Aug-13

# Certificate of Inspection

Cargo Authority Attachment

Vessel Name: SMI 30032 Official #: 1239856

Shipyard: Trinity Marine

Madisonville

Hull #: 2203-1

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Cargo Ide	entification					Conditions of Carriage						
Name Trimethylbenzene (all isomers)	Chem Code TRE	Compat Group No 32	Sub Chapter D	Grade {D}	Hull Type	Tank Group A	App'd	Recovery VCS Category 1	Special Requirements in 46 CFR 151 General and Mat'ls of	Insp. Period		
Trixylenyl phosphate	TRP	34	D	E.		Α	Yes	. 1				
Undecene	UDC	30	D	D/E		Α	Yes	1				
1-Undecyl alcohol	UND	20	D	E		Α	Yes	1				
Xylenes (ortho-, meta-, para-)	XLX	32	D	D		Α	Yes	1.				





Cargo Authority Attachment

Vessel Name: SMI 30032

Official #: 1239856

Page 7 of 7

Shipyard: Trinity Marine

C1-1302823

20-Aug-13

Hull #: 2203-1

Serial #:

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

Cargo identification

Name Chem Code

none

Compatability Group No.

Note 1

Note 2

Subchapter Subchapter D

Note 3

A, B, C

NA

Grade

Hull Type

Tank Group Vapor Recover Approved (Y or N)

Conditions of Carriage Tank Group Vapor Recovery

> Approved (Y or N) VCS Category: Category 1

> > Category 2

Category 3 Category 4

Category 5

Category 6

The proper shipping name as listed in 46 CFR Table 30.25-1, 46 CFR Table 151.05, and 46 CFR Part 153 Table 2. The three letter designation assigned to the cargo in the Chemical Hazards Response Information System (CHRIS) Manual.

Certain mixtures of cargoes may not have a CHRIS Code assigned.

The cargo reactive group number assigned for compatibility determinations in 46 CFR Part 150 Tables I and II. In accordance with 46 CFR 150.130, the Person-in-Charge of the barge is responsible for ensuring that the compatibility requirements of 46 CFR Part 150 are met. Cargoes must be checked for compatibility using the figures, tables, and appendices of 46 CFR 150 in conjunction with the assigned reactive group number.

Because of the very high reactivity or unusual conditions of carriage or potential compatibility problems, this product is not assigned to a specific group in the Compatibility Chart. For additional compatibility information, contact Commandant (CG-3PSO-3), U.S. Coast Guard, 2100 Second Street, SW, Washington, DC 20593-0001, Telephone (202) 372-1425.

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

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

Those flammable and combustible liquids listed in 46 CFR Table 30.25-1.

Those hazardous cargoes listed in 46 CFR Table 151.05 and 46 CFR Part 153 Table 2.

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

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

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

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

The flammability/combustibility grade of these cargoes may vary depending upon the flashpoint and Reid vapor pressure. The Person-in-Charge shall verify the cargo grade based on Manufacturers data and ensure that the barge is authorized for carriage of that grade of cargo. Those subchapter O cargoes which are not classified as a flammable or combustible liquid.

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

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

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.

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.

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.

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

(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

(High vapor pressure) VCS pressure drop calculations for cargoes with a vapor pressure greater than 14.7 psia at 115 F must take into account increased vapor-air mixture densities and vapor growth rates as compared to Category 1cargoes. Consult the Marine Safety Center's VCS Guidelines for further information. This requirement is in addition to the requirements of Category 1.

(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