

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

Certification Date: 21 May 2024 Expiration Date: 18 Jun 2029

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		Offic	ial Number	IMO N	umber	Call Sign	Service					
KIRBY 29155		12	52013				Tank Ba	rge				
Hailing Port			Unill Made del	11.		D		**************************************				
GIBSON, LA			Hull Material	н	orsepower	Propulsion						
			Steel									
UNITED STA	TES											
Place Built			Delivery Date	Keel Laid Date	Gross Tons	Net Tons	DWT	Length				
ASHLAND C	IIY, IN		22Apr2014	04Mar2014		R-1619		R-297.6				
UNITED STA	TES		3.45 (344) - 3.45 (344) - 3.45 (344) - 3.45 (344) - 3.45 (344)		I-	I-		1-0				
Owner				One	rator							
	ID MARINE LP				RBY INLAND	MARINE LP						
55 WAUGH			18350 MARKET ST. CHANNELVIEW, TX 77530									
HOUSTON, TO UNITED STA					NITED STATE							
	ust be manned wi eboatmen, 0 Certi						hich there mu	st be				
0 Masters	200	censed Mates	a / 105-1450 00	Engineers		Dilers	H487					
0 Chief Mates		rst Class Pilot		Assistant Engir	1,400							
0 Second Ma	tes 0 R	adio Officers	0 Seco	nd Assistant Er	ngineers							
0 Third Mates	6 0 AI	ble Seamen	0 Third	Assistant Engi	neers							
0 Master Firs		rdinary Seame		sed Engineers								
0 Mate First 0	TO THE RESIDENCE OF THE PARTY O	eckhands		fied Member Er								
In addition, the Persons allow	is vessel may carr ved: 0	y 0 Passen	gers, 0 Othe	r Persons in	crew, 0 Perso	ons in addition t	o crew, and no	Others. Total				
Route Perm	itted And Condit	ions Of Op	eration:									
Lakes,	Bays, and So	unds plเ	ıs Limited	d Coastw	ise			2.0				
LIMITED COAS	TWISE SERVICE: NOT MORE THAN T	IN SEAS OF WELVE (12)	LESS THAN MILES FROM	THREE (03)	FEET, WIND	LESS THAN TWEN	TY (20) KNOT	S AND CLEAR				
	ARGE IS PARTICIP.											
PROGRAM (TBS	SIP). INSPECTION (TAP). INSPECTI	ACTIVITIE	S ABOARD TH	IS BARGE SH	ALL BE COND	UCTED IN ACCOR	RDANCE WITH I	TS TANK BARGE				
THIS VESSEL 21(b); IF TH	HAS BEEN GRANTE HIS VESSEL IS OP	D A FRESH ERATED IN	WATER SERVI SALT WATER	CE EXAMINAT	CION INTERVA	L IN ACCORDANC	CE WITH 46 CE	R TABLE 31.10-				
	KT PAGE FOR A						,==, ,,					
	ection for Certifica		ALC DISCUSSION OF	CHEST NO BROWN TH	TO ANY CONTROL OF THE PROPERTY		the Officer in C	Charge Marine				
Inspection, He	ouma, Louisiana c regulations prescr	ertified the	vessel, in all	respects, is	n conformity	with the applica	ble vessel insp	pection laws and				
	Annual/Period				This certifica	te issued by:	D	0				
Date	Zone	A/P/R	Signatu	ire		E. BLOCH, LCD	R USCG By	Direction				
					Officer in Charge, M							
					*T008	Houma	a, Louisiana					
		-			Inspection Zone	16						



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THE VESSEL MUST BE INSPECTED USING SALT WATER INTERVALS PER 46 CFR TABLE 31.10-21(a) AND THE COGNIZANT OCMI NOTIFIED IN WRITING AS SOON AS THIS CHANGE IN STATUS OCCURS.

---Hull Exams---

Exam Type

Next Exam

Last Exam

Prior Exam

DryDock

31Aug2031

19Aug2021

22Apr2014

Internal Structure

31May2029

21May2024

12Jun2019

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

Authorization:

GRADE "A" AND LOWER AND SPECIFIED HAZARDOUS CARGOES.

Total Capacity

Highest Grade Type Part151 Regulated Part153 Regulated Part154 Regulated

29192

Barrels

Yes

No

No

Hazardous Bulk Solids Authority

Loading Constraints - Structural

Tank Number

Max Cargo Weight per Tank (short tons)

Maximum Density (lbs/gal)

1 P/S

848

13.6

2 P/S

860

13.6

3 P/S

751

13.6

Loading Constraints - Stability

Hull Type

Maximum Load

Maximum Draft

Max Density

Route Description

(short tons)

3814

(ft/in)

(lbs/gal)

III

4684

10ft 0in 11ft 9in

13.6 13.6

R, LBS R, LBS

Conditions Of Carriage

ONLY THOSE HAZARDOUS CARGOES NAMED IN THE VESSEL'S CARGO AUTHORITY ATTACHMENT, SERIAL NO. C1-1400860 DATED 14 MAR 2014, MAY BE CARRIED AND THEN ONLY IN THE TANKS INDICATED, SUBJECT TO THE LOADING CONSTRAINTS OF THIS DOCUMENT.

PER 46 CFR 150.130, THE PERSON IN CHARGE OF THE BARGE IS RESPONSIBLE FOR ENSURING THAT THE COMPATIBILITY REQUIREMENTS OF 46 CFR 150 ARE MET. CARGOES MUST BE CHECKED FOR COMPATIBILITY USING THE FIGURES, TABLES, AND APPENDICES OF 46 CFR 150 IN CONJUNCTION WITH THE REACTIVE GROUP NUMBER FROM THE "COMPATIBILITY GROUP NO." COLUMN LISTED IN THE VESSEL'S CAA.

PER 46 CFR 151.10-15(c)(2) THE MAX TANK WEIGHTS LISTED BELOW REFLECT UNIFORM (WITHIN 5%) LOADING AT THE DEEPEST DRAFT ALLOWED. WHEN CARRYING SUBCHAPER "O" CARGOES AT SHALLOWER DRAFTS. THE BARGE(S) SHOULD ALWAYS BE LOADED UNIFORMLY.

WHEN THE VESSEL IS CARRYING CARGOES CONTAINING GREATER THAN 0.5% BENZENE, THE PERSON IN CHARGE IS RESPONSIBLE FOR ENSURING THE PROVISIONS OF 46 U.S. CODE OF FEDERAL REGULATIONS PART 197, SUBPART C ARE APPLIED.

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 13.58 LBS/GAL, MAY BE CARRIED AS SLACK LOADS, BUT SHALL NOT EXCEED THE TANK WEIGHT LIMITS AS LISTED ABOVE.

IN ACCORDANCE WITH 46 CFR PART 39, EXCLUDING PART 39.4000, THIS VESSEL'S VAPOR CONTROL SYSTEM HAS BEEN INSPECTED TO THE PLANS APPROVED BY MARINE SAFETY CENTER LETTERS SERIAL NO. C1-



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1400860 DATED 14 MAR 2014, AND FOUND ACCEPTABLE FOR COLLECTION OF BULK LIQUID CARGO VAPORS ANNOTATED WITH "YES" IN THE CAA'S VCS COLUMN.

--- Inspection Status ---

Cargo Tanks

	Internal Exam			External Exan	า	
Tank Id	Previous	Last	Next	Previous	Last	Next
1 P/S	22Apr2014	21May2024	31May2034	=7	-1	-
2 P/S	22Apr2014	21May2024	31May2034	-	-	-
3 P/S	22Apr2014	21May2024	31May2034	-	-9	-
			Hydro Test			
Tank Id	Safety Valves	i	Previous	Last	Next	
1 P/S			Ę	_		
2 P/S	·		E-		_	
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

.

40-B

END



Commanding Officer United States Coast Guard Marine Safety Center US Coast Guard Stop 7430 2703 Martin Luther King Jr Ave SE Washington, DC 20593-7430 Staff Symbol: MSC-3 Phone: (202) 795-6731 Email: msc@uscq.mil

16710/P018412/mpc Serial: C1-1602921 August 10, 2016

The Shearer Group, Inc Attn: Mr. Harrison Brann 3101 NASA Parkway, Suite I Seabrook, TX 77586

Email: hbrann@shearer-group.com

Subj: Multi-Breasted Tandem Loading for Settoon Towing, LLC

Unmanned Double Hull Tank Barges (O/D)

Rivers; Lakes, Bays, and Sounds Multi-breasted Tandem Loading

Ref: (a) The Shearer Group, Dwg. No. 0231-018-043, Rev. 5, "Tank Barge Tandem Loading," dated July 22, 2016

- (b) Your letter Corr. No. 0231-018-SUBMIT005 dated July 22, 2016
- (c) MSC letter Serial No. C1-1402458 dated July 18, 2014
- (d) MSC letter Serial No. C1-1500300 dated January 25, 2015
- (e) MSC letter Serial No. C1-1501614 dated April 13, 2015
- (f) MSC letter Serial No. C1-1602221 dated June 10, 2016
- (g) Marine Safety Information bulletin 11-14, dated July 18, 2014

Dear Mr. Brann:

In response to your email dated July 22, 2016 (MSC Document No. 1615825), we have reviewed all previously submitted pressure drop calculations for multi-breasted tandem loading. The barges listed in enclosure (1) barges have vapor control systems previously approved by the letters listed in enclosure (1) for the applicable barges, and are acceptable for dual loading operations. Based on the calculations in references (a), tandem loading is limited to simultaneous collection of those cargoes listed in the vessels' CAA at a maximum transfer rate of **5,000 bbl/hr** per barge.

For the OCMI's convenience, we have included the following recommended COI endorsement:

In accordance with 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.

Please note that in accordance with the procedural changes outlined in reference (g), tandem loading no longer requires final approval by Commandant (CG-ENG-5), but may be approved by

16710/P018412/mpc Serial: C1-1602921 August 10, 2016

Name	Builder	Hull#	Official No.	MAWP [psi]	PV Valve Setting [psig]	VCS Approval Letter	Approval Date
SMI 30035	Trinity, Madisonville	2203-3	1239858	3.00	1.5/-0.5	C1-1202856	June 6, 2012
SMI 30036	Trinity, Madisonville	2203-4	1239859	3.00	1.5/-0.5	C1-1202856	June 6, 2012
SMI 30037	Trinity, Madisonville	2204-2	1239888	3.00	1.5/-0.5	C1-1202871	June 6, 2012
SMI 30038	Trinity, Madisonville	2203-5	1239860	3.00	1.5/-0.5	C1-1202856	June 6, 2012
SMI 30039	Trinity, Madisonville	2203-6	1239861	3.00	1.5/-0.5	C1-1202856	June 6, 2012
SMI 30040	Trinity, Madisonville	2204-3	1239889	3.00	1.5/-0.5	C1-1202871	June 6, 2012
SMI 30041	Trinity, Madisonville	2203-7	1239862	3.00	1.5/-0.5	C1-1202856	June 6, 2012
SMI 30042	Trinity, Madisonville	2203-8	1239863	3.00	1.5/-0.5	C1-1202856	June 6, 2012
SMI 30043	Trinity, Madisonville	2204-4	1239890	3.00	1.5/-0.5	C1-1202871	June 6, 2012
SMI 30044	Kennedy Ship and Repair	H122	1242956	3.00	1.5/-0.5	C1-1204976	December 11, 2012
SMI 30045	Kennedy Ship and Repair	H123	1246170	3.00	1.5/-0.5	C1-1204976	December 11, 2012
SMI 30046	Trinity, Ashland City	4894	1243723	3.00	1.5/-0.5	C1-1204448	October 23, 2012
SMI 30047	Trinity, Ashland City	4895	1247204	3.00	1.5/-0.5	C1-1301682	May 20, 2013
SMI 30048	Trinity, Ashland City	4896	1247205	3.00	1.5/-0.5	C1-1301682	May 20, 2013
SMI 30049	Trinity, Ashland City	4945	1247206	3.00	1.5/-0.5	C1-1301682	May 20, 2013
SMI 30050	Trinity, Ashland City	4946	1247207	3.00	1.5/-0.5	C1-1301682	May 20, 2013
SMI 30051	Trinity, Ashland City	4947	1248992	3.00	1.5/-0.5	C1-1303034	September 5, 2013
SMI 30052	Trinity, Ashland City	4998	1248993	3.00	1.5/-0.5	C1-1303034	September 5, 2013
SMI 30053	Kennedy Ship and Repair	H124	1249447	3.00	1.5/-0.5	C1-1204976	December 11, 2012
SMI 30054	Trinity, Ashland City	4989	1243723	3.00	1.5/-0.5	C1-1303034	September 5, 2013
SMI 30055	Trinity, Ashland City	4990	1249746	3.00	1.5/-0.5	C1-1303034	September 5, 2013
SMI 30056	Trinity, Ashland City	5027	1252007	3.00	2.5/-0.5	C1-1400860	March 14, 2014
SMI 30057	Trinity, Ashland City	5028	1252008	3.00	2.5/-0.5	C1-1400860	March 14, 2014
SMI 30058	Trinity, Ashland City	5043	1252009	3.00	2.5/-0.5	C1-1400860	March 14, 2014
SMI 30059	Trinity, Ashland City	5044	1252010	3.00	2.5/-0.5	C1-1400860	March 14, 2014
SMI 30060	Trinity, Ashland City	4989	1252012	3.00	2.5/-0.5	C1-1400860	March 14, 2014
SMI 30061	Trinity, Ashland City	4990	1252013	3.00	2.5/-0.5	C1-1400860	March 14, 2014
SMI 30062	Trinity, Ashland City	5045	1251933	3.00	2.5/-0.5	C1-1400860	March 14, 2014
SMI 30063	Trinity, Ashland City	5048	1251934	3.00	2.5/-0.5	C1-1400860	March 14, 2014
SMI 30064	Trinity, Ashland City	5049	1251935	3.00	2.5/-0.5	C1-1400860	March 14, 2014
SMI 30065	Sterling, Port Neches	H129	1250651	3.00	1.5/-0.5	C1-1400109	January 15, 2014
SMI 30201	Trinity, Gretna Machine	1408	1020950	3.00	1.5/-0.5	C1-1205056	December 14, 2012
SMI 30202	Trinity, Gretna Machine	1409	1020951	3.00	1.5/-0.5	C1-1205056	December 14, 2012
SMI 30203	Trinity, Gretna Machine	1410	1020952	3.00	1.5/-0.5	C1-1205056	December 14, 2012
SMI 30204	Trinity, Gretna Machine	1411	1020953	3.00	1.5/-0.5	C1-1205056	December 14, 2012
SMI 30205	Trinity, Gretna Machine	1412	1020955	3.00	1.5/-0.5	C1-1205056	December 14, 2012
SMI 30206	Trinity, Gretna Machine	1413	1020957	3.00	1.5/-0.5	C1-1205056	December 14, 2012
SMI 213	Cenac Towing Co.	2059-2	1074634	3.00	1.5/-0.5	C2-9901178	April 13, 1999



Serial #: Dated:

Certificate of Inspection

Cargo Authority Attachment

Vessel Name: SMI 30061

Shipyard: Trinity Ashland City

Hull #: 5044

Official #: 1252013

Tank Group Information	Cargo k	dentificati	on		Cargo		Tanks		Carg Trans		Environment er Control		Fire	Special Requirements			
Tnk Grp Tanks in Group	Density	Press.	Temp.	Hull Typ	Seg Tank	Туре	Vent	Gauge	Pipe Class	Cont	Tanks	Handling Space	Protection Provided	General	Materials of Construction	Elec Haz	Tem Cont
A #1P/S, #2P/S, #3P/S	13.6	Almos.	Amb.	IÌ	1ii 2ii	Integral Gravity	PV	Closed	il	G-1	NR	ΝA	Portable	.50-60, .50-70(a), .50-70(b), :50-73, .50-81(a), .50- 81(b),	55-1(b), (c), (e), (f), (j), 56-1(a), (b), (c), (d), (e), (f), (g),	NR	No

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

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

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

List of Authorized Cargoes

Cargo Identificatio	n				İ		1	Condi	tions of Carriage	
				:		<u> </u>	Vapor Re		_	
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	App'd (Y or N)	VCS Category	Special Requirements in 46 CFR 151 General and Mat'ls of	Insp. Period
Authorized Subchapter O Cargoes										
Acetonitrile	ATN	37	0	С	111	´ A	Yes	3	No	G
Acrylonitrile	ACN	15 ²	0	C	. 11	Α	Yes	4	.50-70(a), .55-1(e)	. G
Adiponitrile	ADN	37	0	E		Α	Yes	1	No	G
Alkyl(C7-C9) nitrates	AKN	34 2	0	NA		Α	No	N/A	.50-81, .50-86	G
Aminoethylethanolamine	AEE	8	0	Ε	111	Α	Yes	1	.55-1(b)	G ·
Ammonium bisulfite solution (70% or less)	ABX	43 2	0	NA	Ш	Α	No	N/A	.50-73, .56-1(a), (b), (c)	G
Ammonium hydroxide (28% or less NH3)	AMH	6	0	NA	[1]	Α	No	N/A	.56-1(a), (b), (c), (f), (g)	G
Anthracene oil (Coal tar fraction)	AHO	33	0	NĄ	lì	Α	No	N/A	No	G
Benzene	BNZ	32	0	С	HI	Α	Yes	1	.50-60	G
Benzene or hydrocarbon mixtures (having 10% Benzene or more)	BHB	32 ²	0	С.	III	Α	Yes	1	.50-60	G
Benzene or hydrocarbon mixtures (containing Acetylene and 10% Benzene or more)	ВНА	32 ²	0	С	!	. A	Yes	1	.50-60, .56-1(b), (d), (f), (g)	G
Benzene, Toluene, Xylene mixtures (10% Benzene or more)	BŤX	32	0	B/C	{ 	Α	Yes	1	.50-60	G
Butyl acrylate (all isomers)	BAR	14	0	D	111	Α	Yes	2	.50-70(a), .50-81(a), (b)	G
Butyl methacrylate	вмн	14	0	D	111	Α	Yes	2	.50-70(a), .50-81(a), (b)	G
Butyraldehyde (ail isomers)	BAE	19	0	С	111	Α	Yes	1	.55-1(h)	G
Camphor oil (light)	CPO	18	0	D	11	Α	No	N/A	No	G
Carbon tetrachloride	CBT	36	0	NA	- 111	Α	No	N/A	No .	G
Caustic potash solution	CPS	5 ²	. 0	NA	III	Α	No	N/A	.50-73, .55-1(j)	G
Caustic soda solution	CSS	5 ²	0	NA	[1]	Α	No	N/A	.50-73, .55-1(j)	G
Chemical Oil (refined, containing phenolics)	COD	21	0	Ε	II	Ą	No	N/A	.50-73	G
Chlorobenzene	CRB	36	0	D	III	Α	Yes	1	No	G
Chloroform	CRF	36	0	NA	(1)	Α	Yes	3	No	G
Coal tar naphtha solvent	NCT	33	0	Đ	III	Α	Yes	1	.50-73	G
Creosote	CCW	212	0	Е	III	Α	Yes	1	No .	G
Cresols (all isomers)	CRS	21	0	E.	111	Α	Yes	1	No	G
Cresylate spent caustic	CSC	5	0	NA	Ш	Α	No	N/A	.50-73, .55-1(b)	G
Cresylic acid tar	CRX		0	E	III	Α	Yes	1	.55-1(1)	G
Crotonaldehyde	CTA	19 ²	0	С	Ħ	Α	Yes	4	.55-1(h)	G
Crude hydrocarbon feedstock (containing Butyraldehydes and Ethylpropyl acrolein)	CHG		0	C.	}	Α	No	N/A	No	G
Cyclohexanone	CCH	18	.0	D	!	Α	Yes	1	,56-1(a), (b)	G
Cyclohexanone, Cyclohexanol mixture	CYX	18 ²	0	E	1 11	Α	Yes	1	.56-1 (b)	Ģ
Cyclohexylamine	CHA	7	0	D	!	Α	Yes	1	.56-1(a), (b), (c), (g)	G



Serial #: C1-1400860

14-Mar-14

Certificate of Inspection

Cargo Authority Attachment

Vessel Name: SMI 30061

Official #: 1252013

Page 2 of 8

Shipyard: Trinity Ashland City

Cargo Identificatio	n						.(Condi	tions of Carriage	
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	Vapor R App'd (Y or N)	ecovery VCS Category	Special Requirements in 46 CFR 151 General and Mat'ls of	Insp. Period
Cyclopentadiene, Styrene, Benzene mixture	CSB	30	0	D	131	Α	Yes	1	.50-60, .56-1(b)	G
iso-Decyl acrylate	IAI	14	0	Ε	111	Α	Yes	. 2	.50-70(a), .50-81(a), (b), .55-1(c)	G
Dichlorobenzene (all isomers)	DBX	36	0	Ë	111	Α	Yes	3	.56-1(a), (b)	G
1,1-Dichloroethane	DCH	36	0	С	111	Α	Yes	1	No	G
2,2'-Dichloroethyl ether	DEE	41	0	D	-]]	Α	Yes	1	.55-1(f)	G
Dichloromethane	DCM	36	0	NA	Ш	Α	Yes	5	No	G
2,4-Dichlorophenoxyacetic acid, diethanolamine salt solution	DDE	43	0	E	111	Α	No	N/A	.56-1(a), (b), (c), (g)	G
2,4-Dichlorophenoxyacetic acid, dimethylamine salt solution	DAD	0 1,2	2 0	Α	1	Α	No	N/A	.56-1(a), (b), (c), (g)	G
2,4-Dichlorophenoxyacetic acid, triisopropanolamine salt solution	DTI	43 ²	0	E	111	Α	No	N/A	.56-1(a), (b), (c), (g)	G
1,1-Dichloropropane	DPB	36	0	С	}	Α	Yes	3	No	G
1,2-Dichloropropane	DPP	36	0	С	III	Α	Yes	3	No	G
1,3-Dichloropropane	DPC	36	0	С	[#]	Α	Yes	3	No .	G .
1,3-Dichloropropene	DPU	15	0	D		Α	Yes	4	· No	G
Dichloropropene, Dichloropropane mixtures	DMX		0	С	1)	Α	Yes	1	No	G
Diethanolamine	DEA	8	0	Ε	£II	Α	Yes	1	.55-1(c)	G
Diethylamine	DEN	7	0	C	111	Α	Yes	. 3	.55-1(c)	G
Diethylenetriamine	DET	7 ²	0	E	111	Α	Yes	1	.55-1(c)	G
Diisobutylamine	DBU	7	0	D	111	Α	Yes	3	.55-1(c)	G
Diisopropanolamine	DIP	8	0	E	III	A	Yes	1	,55-1(c)	G
Diisopropylamine	DIA	7	0	. C	II	Α	Yes	3	,55-1(c)	G
N,N-Dimethylacetamide	DAC		0	Ë		Α	Yes	3	.56-1(b)	G
Dimethylethanolamine	DMB		0	D	[]]	A	Yes	1	.56-1(b), (c)	G
Dimethylformamide	DMF		0	D	181	A	Yes	1	.55-1(e)	G
Di-n-propylamine	DNA		0	C	- II	A	Yes	3	.55-1(c)	G
Dodecyldimethylamine, Tetradecyldimethylamine mixture	DOT		0	E	111	Α	No	N/A	.56-1(b)	G
Dodecyl diphenyl ether disulfonate solution	DOS		0	#		Α	No	N/A		G
EE Glycol Ether Mixture	EEG		0		111	A	No	N/A	· ·	G
Ethanolamine	MEA		0	E	III	A	Yes	1	.55-1(c)	G
Ethyl acrylate	EAC		0	C	 [A	Yes	2	.50-70(a), .50-81(a), (b)	G
Ethylamine solution (72% or less)	EAN		0	Ā	::: II	A	Yes	6	.55-1(b) ·	G
N-Ethylbutylamine	EBA	7		D	<u>;;</u>	^`A	Yes	3	.55-1(b)	G
N-Ethylcyclohexylamine	ECC		0	Ď	(1)	A	Yes	<u>v</u>	.55-1(b)	G
Ethylene cyanohydrin	ETC	20	0	E	111	A	Yes		No	G
	EDA		0	. D	 []]	A	Yes	1	.55-1(c)	G .
Ethylenediamine Ethylene dichtoride	EDC			C		<u>A</u>	Yes		No	G
	EGH		- 0	. C	101	A	No	N/A	······	G
Ethylene glycol hexyl ether									No	G
Ethylene glycol monoalkyl ethers	EGC		0	D/E E		· A	Yes Yes	1	No	G
Ethylene glycol propyl ether	EAI	14	0	E	111	- A	Yes		.50-70(a), .50-81(a), (b)	G
2-Ethylhexyl acrylate	ETM		0	D/E	(1)	A	Yes		.50-70(a)	G
Ethyl methacrylate	EPA			E E			Yes Yes		No No	G
2-Ethyl-3-propylacrolein			0			A			.55-1(h)	G
Formaldehyde solution (37% to 50%)	FMS	 	0	D/E	HI	Α	Yes		.55-1(h)	G
Furfural (50%	FFA		0	D	111	Α	Yes			G
Glutaraldehyde solution (50% or less)	GTA		0	NA E	111	A	No Voc	N/A	.55-1(c)	G
Hexamethylenediamine solution	HMC		0	E	<u> </u>	A .	Yes	- 	.56-1(b), (c)	G
Hexamethyleneimine	HMI		0	C		A	Yes			G
Hydrocarbon 5-9	HFN		Ō	C		A	Yes		50-70(a), .50-81(a), (b)	G
Isoprene	IPR	30	0	Α	III.	Α	Yes	7	.50-70(a), .50-81(a), (b)	G



Cargo Authority Attachment

Vessel Name: SMI 30061 Official #: 1252013

Page 3 of 8

Shipyard: Trinity Ashland City

Dated:

Cargo Identification							Conditions of Carriage							
	1			ì			Vapor R	ecovery						
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	App'd (Y or N)	VCS Category	Speciał Requirements in 46 CFR 151 General and Mat'ls of	Insp. Period				
Isoprene, Pentadiene mixture	IPN		0	В		Α	· No	N/A	.50-70(a), .55-1(c)	G				
Kraft pulping liquors (free alkali content 3% or more)(including: Black Green, or White liquor)	KPL	5	0	NA	111	Α	No	N/A	.50-73, .56-1(a), (c), (g)	G				
Mesityl oxide	MSO	18 ²	0	D	H	Α	Yes	1	No	G				
Methyl acrylate	MAM	14	0	C.	III	Α	Yes	2	.50-70(a), .50-81(a), (b)	G				
Methylcyclopentadiene dimer	MCK	30	0	С	111	Α	Yes	1	No	G ·				
Methyl diethanolamine	MDE	8	0	E	Ш	Α	Yes	1	.56-1(b), (c)	G				
2-Methyl-5-ethylpyridine	MEP	9	0	Ε	III	Α	Yes	1	.55-1(e)	G				
Methyl methacrylate	MMM	14	0	С	[1]	Α	Yes	٠ 2	.50-70(a), .50-81(a), (b)	G				
2-Methylpyridine	MPR	9	0	D	111	Α	Yes	3	.55-1(c)	G				
alpha-Methylstyrene	MSR	30	.0	D	Ш	. А	Yes	2	.50-70(a), .50-81(a), (b)	G				
Morpholine	MPL	7 2	0	D	{	Α	Yes	1	.55-1(c)	G				
Nitroethane	NTE	42	0	D	11	Α	. No	N/A	.50-81, .56-1(b)	G				
1- or 2-Nitropropane	NPM	42	0	D	III.	. A	Yes	1	.50-81	G				
1.3-Pentadiene	PDE	. 30	0	Α	111	Α	Yes	7	.50-70(a), .50-81	G				
Perchloroethylene	PER	36	0	NA	III	Α	No	N/A	No .	G				
Polyethylene polyamines	PEB	7 2	0	E	III	Α	Yes	1	.55-1(e)	G				
iso-Propanolamine	MPA	8	0	E	111	Α	Yes	1	.55-1(c)	G				
Propanolamine (iso-, n-)	PAX	8	0	Е	10	Α	Yes	. 1	.56-1(b), (c)	G				
iso-Propylamine	IPP	7	0	Α	I§	Α	Yes	5	,55-1(c)	G				
Pyridine	PRD	9	0	С	l11	Α	Yes	1	.55-1(e)	G				
Sodium acetate, Glycol, Water mixture (3% or more Sodium Hydroxide)	SAP		0		III	A	No	N/A	50-73, .55-1(j) -	G				
Sodium aluminate solution (45% or less)	SAU	5	0	NA	III	Α	No	N/A	.50-73, .56-1(a), (b), (c)	G				
Sodium chlorate solution (50% or less)	SDD	0 1,	2 0	NA	III	Α	No	N/A	.50-73	G				
Sodium hypochlorite solution (20% or less)	SHQ	5	0	NA	(11	Α	No	N/A	.50-73, .56-1(a), (b)	G				
Sodium sulfide, hydrosulfide solution (H2S 15 ppm or less)	SSH	0 1,	2 0	NA	ill	Α	Yes	1	.50-73, .55-1(b)	G				
Sodium sulfide, hydrosulfide solution (H2S greater than 15 ppm but less than 200 ppm)	SSI	0 1,	² O	NA	III	· A	No	N/A	.50-73, .55-1(b)	G				
Sodium sulfide, hydrosulfide solution (H2S greater than 200 ppm)	SSJ	0 1,	2 0	NA	ll .	· A	No	N/A	.50-73, .55-1(b)	G				
Styrene (crude)	STX		0	D	III	·A	Yes	2	No	G				
Styrene monomer	STY	30	0	D	. []]	Α	Yes	. 2	.50-79(a), .50-81(a), (b)	G				
1,1,2,2-Tetrachloroethane	TEC	36	0	NA	111	Α	No	N/A	Ų No	G				
Tetraethylenepentamine	TTP	7	0	E	{	Α	Yes	. 1	.55-1(c)	G				
Tetrahydrofuran	THF	41	- 0	С	111	Α	Yes	. 1	.50-70(b)	G				
Toluenediamine	TDA	9	. 0	E	\$1	Α	No	N/A	50-73, 56-1(a), (b), (c), (g)	G				
1,2,4-Trichlorobenzene	TCB	36	0	E	- 111	Α	Yes	1	No	G				
1,1,2-Trichloroethane	TCM	36	0	NA	Ш	Α	Yes	1	.50-73, .56-1(a)	G [°]				
Trichloroethylene	TCL	36 ²	0	NA	111	Α	Yes	1	. No	G				
1,2,3-Trichloropropane	TCN	36	0	Ε.	H	Α	Yes	3	.50-73, 56-1(a)	G				
Triethanolamine	TEA	8 ²	0	E	!	A	Yes	1	.55-1(b)	G				
Triethylamine	TEN	7	0	С	il	Α	Yes	3	.55-1(e)	G				
Triethylenetetramine	TET		.0	. E	111	Α	Yes	; 1	.65-1(b)	G				
Triphenylborane (10% or less), caustic soda solution	TPB		0	NA	111	Α	No	N//	Δ .56-1(a), (b), (c)	G				
Trisodium phosphate solution	TSP		0	NA			No	N/A	Δ50-73, .56-1(a), (c).	G				
Urea, Ammonium nitrate solution (containing more than 2% NH3)	UAS		0	NA	III	Α	No	N//	Δ .56-1(b)	G				
Vanillin black liquor (free alkali content, 3% or more).	VBL		0	NA			No	N//	Δ .50-73, .56-1(a), (c), (g)	G				
Vinyl acetate	VAN		0	С	III		Yes	3 2	.50-70(a), .50-81(a), (b)	G				
Vinyl neodecanate	VND		0	E	III		No	N//	Δ .50-70(a), .50-81(a), (b)	G.				
verya moducodinate		-							,					



Cargo Authority Attachment

Vessel Name: SMI 30061 Official #: 1252013

Page 4 of 8

Shipyard: Trinity Ashland City

Cargo Identification	n			•			(Condi	tions of Carriage	
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	Vapor R App'd (Y or N)	ecovery VCS Category	Special Requirements in 46 CFR 151 General and Mat'ls of	Insp. Period
Vinyltoluene	VNT	13	0		111	Α	Yes	2	.50-70(a), .50-81, .56-1(a), (b), (c), (G
Subchapter D Cargoes Authorized for Vapor Contr	ما	////-								
Acetone	ACT	18 ²	D	С		Α	Yes	1		
Acetophenone	ACP	18	D	E		A	Yes	1		
Alcohol(C12-C16) poly(1-6)ethoxylates	APU	20	D	·E		A	Yes	1	·	
Alcohol(C6-C17)(secondary) poly(7-12)ethoxylates	AEB	20		E			Yes	1	, , , , , , , , , , , , , , , , , , ,	***************************************
Amyl acetate (all isomers)	AEC	34	0			A	Yes	1		
Amyl alcohol (iso-, n-, sec-, primary)	AAI	20	D	D			Yes	1	MP24AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	
Benzyl alcohol	BAL	21	D	E		A	Yes	<u>'</u> 1		
Brake fluid base mixtures (containing Poly(2-8)alkylene(C2-C3)	BFX	20	D	E		Α	Yes	1	b 1	
glycols, Polyalkylene(C2-C10) glycol monoalkyl(C1-C4) ethers, and their borate esters)	DI A	20	Ü			~	163	•		
Butyl acetate (all isomers)	BAX	34	D	D.		Α	Yes	1		
Butyl alcohol (iso-)	IAL	20 2	D	D		Α	Yes	1		
Butyl aicohol (n-)	BAN	20 ²	D	D		Α	Yes	1		
Butyl alcohol (sec-)	BAS	20 2	D	С		Α	Yes	1	, , , , , , , , , , , , , , , , , , ,	
Butyl alcohol (tert-)	BAT		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	E		Α	Yes	1		
Cyclohexane	CHX	31	D	С		Α	Yes	1	, , , , , , , , , , , , , , , , , , , ,	
Cyclohexanol	CHN	20	D	E		Α	Yes	1		
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 ·	Е		A [.]	Yes	1		
Decene	DCE	30	D	D		Α	Yes	1		
Decyl alcohol (all isomers)	DAX	20 ²	D	E		Α	Yes	1		
n-Decylbenzene, see Alkyl(C9+)benzenes	DBZ	32	D	E		Α	Yes	1		
Diacetone alcohol	DAA	20 2	D	D		A	Yes	. 1		
ortho-Dibutyl phthalate	DPA	34	D	Е		Α	Yes	1	:	
Diethylbenzene	DEB	32	D	D		A	Yes	· 1		
Diethylene glycol	DEG	40 2	D	E		- A	Yes	1		
Diisobutylene	DBL	30	D	Ċ		Α	Yes	1	,	
Diisobutyl ketone	DIK	18	D	D		A	Yes	1		
Diisopropylbenzene (all isomers)	DIX	32		E		A	Yes	1		
Dimethyl phthalate	DTL	34	D	E		Α	Yes	1		
Dioctyl phthalate	DOP	34	D	E		Α	Yes	1		
Dipentene	DPN	30	D	D		Α	Yes	1		
Diphenyl	DIL.	32		D/E		Α	Yes	1		
Diphenyl, Diphenyl ether mixtures	DDO	33	D	E		Α	Yes	1		
Diphenyl ether	DPE	41	. D	(E)		A	Yes	1	The state of the s	
Dipropylene glycol	DPG	40	D	E		A	Yes	<u>-</u>		
Distillates: Flashed feed stocks	DFF	33	D	E		A	Yes	1		
Distillates: Straight run	DSR	33	D .	E		Α	Yes			
Dodecene (all isomers)	DOZ	30	D	D		A	Yes	<u>'</u>	and the	
Dodecylbenzene, see Alkyl(C9+)benzenes	DDB	32	D	E	•		Yes	1		
2-Ethoxyethyl acetate	EEA	34	D D	D			Yes	1		
z-Luioxydinyi acetate	ECA	34	U	U		Α	168	1		



Cargo Authority Attachment

Vessel Name: SMI 30061 Official #: 1252013

Page 5 of 8

Shipyard: Trinity Ashland City

Cargo Identificatio	n				.]	Conditions of Carriage						
						<u> </u>		Recovery				
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	App'd (Y or N)	VCS Category	Special Requirements in 46 CFR 151 General and Mat'ls of	Inso. Period		
Ethoxy triglycol (crude)	ETG	40	D	_ E		Α	Yes	1	2/40			
Ethyl acetate	ETA	34	D	С		Α	Yes	. 1				
Ethyl acetoacetate	EAA	34	D	E		Α	Yes	1				
Ethyl alcohol	EAL	20 ²	D	С		Α	Yes	1				
Ethylbenzene	ETB	32	D ·	С		Α	Yes	1				
Ethyl butanol	EBT	20	ם	D		Α	Yes	11				
Ethyl tert-butyl ether	EBE	. 41	D	С		Α	Yes	1				
Ethyl butyrate	EBR	34	D.	D		Α	Yes	1				
Ethyl cyclohexane	ECY	31	D	D		Α	Yes	11				
Ethylene glycol	EGL	20 ²	D	Ė		Α	Yes	1				
Ethylene glycol butyl ether acetate	EMA	34	D	E	/	,A	Yes	1				
Ethylene glycol diacetate	EGY	34	D	E	* *	Α	Yes	1				
Ethylene glycol phenyl ether	EPE	40	D '	E		Α	Yes	. 1				
Ethyl-3-ethoxypropionate	EEP	34	D	D		Α	Yes	1				
2-Ethythexanol	EHX	20	D	E		Α	Yes	1				
Ethyl propionate	EPR	34	D	C	•	Α	Yes	. 1				
Ethyl toluene	ETE	32	D	D		Α	Yes	1				
Formamide	FAM	10	Ð	E		Α	Yes	1				
Furfuryl alcohol	FAL	20 ²	D	E		Α	Yes	. 1				
Gasoline blending stocks: Alkylates	GAK	33	D	A/C		Α	Yes	1				
Gasoline blending stocks: Reformates	GRF	33	D	A/C		A	Yes	1		VIII		
Gasolines: Automotive (containing not over 4.23 grams lead per gallon)	GAT	33	D ·	С		Α .	Yes	1				
Gasolines: Aviation (containing not over 4.86 grams of lead per gallon)	GAV	33	D	С		Α .	Yes	1				
Gasolines: Casinghead (natural)	GCS	33	D	A/C		Α	Yes	1				
Gasolines: Polymer	GPL	33	D	A/C		Α	Yes	1				
Gasolines: Straight run	GSR	33	D	A/C		Α	Yes	1				
Glycerine	GCR	20 ²	D	E .		Α	Yes	1				
Heptane (all isomers), see Alkanes (C6-C9) (all isomers)	HMX	31	D	С		Α	Yes	1				
Heptanoic acid	HEP	4	D	Ε		Α	Yes	1.	,			
Heptanol (all isomers)	HTX	20	D	D/E		Α	Yes	1				
Heptene (all isomers)	HPX	30	D	С		Α	Yes					
Heptyl acetate	HPE	.34	D	E		Α	Yes	1				
Hexane (all isomers), see Alkanes (C6-C9)	HXS	31 ²	. D	B/C		Α	Yes	1				
Hexanoic acid	HXO	4	D	E		Α	Yes	1				
Hexanol	HXN	20	D	Đ		Α	Yes	1				
Hexene (all isomers)	HEX	30	D	С		Α	Yes	2				
Hexylene glycol	HXG	20	D.	E		Α	Yes	1				
Isophorone	IPH	18 ²	D	Ε		Α	Yes	1	THE CONTRACT OF THE CONTRACT O	.,,,,,,,,		
Jet fuel: JP-4	JPF	33	D.	Е		Α	Yes	1				
Jet fuel: JP-5 (kerosene, heavy)	JPV	33	D	D		Α	Yes	1				
Kerosene	KRS	33	D	D.		Α	Yes	. 1				
Methyl acetate	MTT	34	D-	D		Α	Yes					
Methyl alcohol ,	MAL	20 ²	D	С		. A	Yes	1				
Methylamyl acetate	MAC	34	D	D		Α	Yes	1				
Methylamyl alcohol	MAA	20	D	D		Α	Yes	11				
Methyl amyl ketone	MAK	18	D	D		Α	Yes	1				
Methyl tert-butyl ether	MBE	41 2	D	С		· A	Yes	1	· · · · · · · · · · · · · · · · · · ·			



Dated:

44.45-44

Certificate of Inspection

Cargo Authority Attachment

Vessel Name: SMI 30061 Official #: 1252013

Page 6 of 8

Shipyard: Trinity Ashland City

Campa 1-1	-4!					1						
Cargo Identifica	ation				<u> </u>	Conditions of Carriage						
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	App'd (Y or N)	VCS	Special Requirements in 46 CFR 151 General and Mat'ls of	Insp. Period		
Methyl butyl ketone	MBK	18	D	С		Α	Yes	1				
Methyl butyrate .	MBU	34	D	С		Α	Yes	1				
Methyl ethyl ketone	MEK	18 ²	Đ	С		Α	Yes	1		***************************************		
Methyl heptyl ketone	MHK	18	D	D ·		·A	Yes	1				
Methyl isobutýl ketone	MIK	18 ²	D	С		Α	Yes	1	///			
Methyl naphthalene (molten)	MNA	32	D	E		Α	Yes	1				
Mineral spirits	MNS	33	D	D	~~~~~~	Α	Yes	1				
Myrcene	MRE	30	D	D		Α	Yes	1				
Naphtha: Heavy	NAG	33	D	#		Α	Yes	1				
Naphtha: Petroleum	PTN	33	D	#	7 : 1	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	C		Α	Yes	1				
Nonane (all isomers), see Alkanes (C6-C9)	NAX	31	D	D		Α	Yes	1				
Nonene (all isomers)	NON	30	D	D		Α	Yes	2				
Nonyl alcohol (all isomers)	NNS	20 ²	D	E		Α	Yes	1				
Nonyl phenol	NNP	21	D	E		A	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		A	Yes	1				
Octanoic acid (all isomers)	OAY	4		 E		Α	Yes	<u>-</u>		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
Octanol (all isomers)	OCX	20 ²	D	 E		A	Yes	1	· · · · · · · · · · · · · · · · · · ·			
Octene (all isomers)	OTX	30	Ď.			A	Yes	2				
Oil, fuel: No. 2	OTW	33	D	D/E		Α	Yes	1				
Oil, fuet: No. 2-D	OTD	33	D	D		Α	Yes	1				
Oil, fuel: No. 4	OFR	33	D	D/E		.A	Yes	1	,			
Oil, fuel: No. 5	OFV	33		D/E		A	Yes	<u>:</u>				
Oil, fuel: No. 6	· osx	. 33	D	E		A	Yes	<u>·</u>				
Oil, misc: Crude	OIL	33		C/D		Α	Yes	1				
Oil, misc: Diesel	ODS	33	D	D/É		Α	Yes	<u>-</u>		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
Oil, misc: Gas, high pour	OGP	33	D	E		A	Yes	<u>-</u>				
Oll, misc: Lubricating	OLB	33	D	<u>-</u>		Α	Yes	1	,			
Oil, misc: Residual	ORL	33	D	E		Α	Yes	1				
Oil, misc: Turbine	ОТВ	33	D	E		A	Yes	1				
Pentane (all isomers)	PTY	31	D	A		A	Yes	5				
Pentene (all isomers)	PTX	30	D	A		A	Yes	5				
n-Pentyl propionate	PPE	34		D		A	Yes	1				
alpha-Pinene	PIO	30	D	D		A	Yes	1				
beta-Pinene	PIP	30	D	D	· · · · · · · · · · · · · · · · · · ·	<u></u> A	Yes	1				
Poly(2-8)alkylene głycol monoalkyl(C1-C6) ether	PAG	40	D	E		A	Yes	1				
Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether acetate	PAF	34	D	E		A	Yes	1				
Polybutene	PLB	30	D	E		Α	Yes	<u>'</u>	1			
Polypropylene glycol	PGC	40	D	E		A	Yes	1				
iso-Propyl acetate	IAC	34	. D	C	-	A. A	Yes	1		***************************************		
n-Propyl acetate	PAT	34	D.	C		A	Yes	1				
iso-Propyl alcohol	IPA	20 ²	D D	C		Α	Yes	1				
n-Propyl alcohol	PAL	20 -	D	c			Yes	1	•			
Propylbenzene (all isomers)	PBY	32	D	D		Α	Yes	<u>'</u>				
iso-Propylcyclohexane	IPX	31	D	D				<u>-</u>	······································	***************************************		
во-г торуюустопехане		31	U	U		Α	Yes	<u> </u>				

Cargo Authority Attachment

Vessel Name: SMI 30061 Official #: 1252013

Page 7 of 8

Shipyard: Trinity Ashland City

Cargo Identifica	ation					Conditions of Carriage						
							Vapor P	Recovery		T		
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	App'd (Y or N)	VCS Category	Special Requirements in 46 CFR 151 General and Mat'is of	Insp. Period		
Propylene glycol	PPG	20 ²	D	Е		Α	Yes	1				
Propylene glycol methyl ether acetate	PGN	34	D	D.		Α	Yes	1		-		
Propylene tetramer	PTT	30	D	D		Α	Yes	1		·		
Sulfolane	SFL	- 39	a	Е		Α	Yes	1				
Tetraethylene glycol	TTG	40	D ,	Ε		Α	Yes	1				
Tetrahydronaphthalene	THN	32	D	E		Α	Yes	1		-		
Toluene	TOL	32	D	С	.,	Α	Yes	<u>1 · </u>				
Tricresyl phosphate (less than 1% of the ortho isomer)	TCP	34	, D	Ε		Α	· Yes	1				
Triethylbenzene	TEB	32	D.	E		Α	Yes	1				
Triethylene glycol	TEG	40	D	E		Α	Yes	1				
Triethyl phosphate	TPS	34	D	E		Α	Yes	1	A.///A./A.///P.P.//			
Trimethylbenzene (all isomers)	TRE	32	D	(D)		Α	Yes	1				
Trixylenyl phosphate	TRP	34	D	Ė		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	. *			



Dated: 14-Mar-14



Certificate of Inspection

Cargo Authority Attachment

Vessel Name: SMI 30061 Official #: 1252013

Page 8 of 8

Shipyard: Trinity Ashland

Hull #: 5044

Explanation of terms & symbols used in the Table:

Cargo Identification

The proper shipping name as listed in 46 CFR Table 30.25-1, 46 CFR Table 151.05, and 46 CFR Part 153 Table 2.

Chem Code

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, table and appendices of 46 CFR 150 in conjunction with the assigned reactive group number.

Note 1

Note 2

Subchapter

Subchapter D

Subchapter O Note 3

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

Those flammable and combustible liquids listed in 46 CFR Table 30.25-1. Those hazardous cargoes listed in 46 CFR Table 151.05 and 46 CFR Part 153 Table 2.

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

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

Grade

A, B, C D, E Note 4

NA

not verified by manufacturers data. The Person-in-Charge shall verify the cargo grade based on Manufacturers data and ensure that the barge is authorized for carriage of Flammable liquid cargoes, as defined in 46 CFR 30-10.22. Combustible liquid cargoes, as defined in 46 CFR 30-10.15.

The flammability/combustibility grade of these cargoes may vary depending upon the flashpoint and Reid vapor pressure. The Person-in-Charge shall verify the

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

The cargo classification assigned to each flammable or combustible liquid. Grades inside of "{ }" indicate a provisional assignment based upon literature sources which were

cargo grade based on Manufacturers data and ensure that the barge is authorized for carriage of that grade of cargo, ose subchapter O cargoes which are not classified as a flammable or combustible liquid.

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

Hull Type

NA

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

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

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

Not applicable to barges certificated under Subchapter D.

Conditions of Carriage

Tank Group Vapor Recovery Approved (Y or N)

The vessel's tank group (as defined in Section 4) which is authorized for carriage of the named cargo

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

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

Conditions of Carriage

Tank Group Vapor Recovery Approved (Ý or N) The vessel's tank group (as defined under the "46 CFR Tank Group Characteristics" listed on page 1) which is authorized for carriage of the named cargo.

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

VCS Category:

The specified cargo's provisional classification for vapor control systems.

Category 1

(No additional VCS requirements above those for benzene, gasolines and crude oil) All requirements applying to the handling of oil and hazardous materials in Titles 33 and 46 Code of Federal Regulations (CFR) apply to these cargoes. Those specifically dealing with vapor control systems are in 33 CFR 155.750, 33 CFR 156.120, 33 CFR 156.170, 46 CFR 35.35 and 46 CFR 39. The cargo tank venting system calculations (46 CFR 39.20-11) and the pressure drop calculations (46 CFR 39.30-1(b)) must use appropriate friction factors, vapor densities and vapor growth rates.

Category 2

(Polymerizes) Polymerization and residue build-up of these cargoes can adversely affect the vessel by fouling safety 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 Chargé, Marine Inspection. This is in addition to the requirements of Category 1. Please note that a material not normally considered a monomer can be a problem in detonation arrester.

Category 3

(Highly toxic) VCSs for these toxic cargoes cannot use a spill valve or rupture disk as the primary means to meet the overfill protection requirement of 46 CFR 39.20-9. This requirement is in addition to the requirements of Category 1.

Category 4

(Polymerizes and highly toxic) Must comply with requirements of Categories 1, 2 and 3.

Category 5

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

Category 6 Category 7

(High vapor pressure and highly toxic) Must comply with requirements of Categories 1, 3 and 5. (High vapor pressure and polymerizes) Must comply with requirements of Categories 1, 2 and 5.

none

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