

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

19 Jan 2022 Certification Date: 19 Jan 2023 **Expiration Date:**

Temporary Certificate of Inspection

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

This Temporary 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.

Call Sign IMO Number Official Number Vessel Name Tank Barge 1234351 **KIRBY 29148**

Propulsion

Hailing Port Hull Material Horsenower GIBSON, LA

Steel

UNITED STATES

DWT Length Place Built Gross Tons Net Tons Delivery Date Keel Laid Date R-297.5 R-1619 ASHLAND CITY, TN R-1619 21Sep2011 18Aug2011 1-0

UNITED STATES

UNITED STATES

KIRBY INLAND MARINE LP 55 WAUGH DR STE 1000 HOUSTON, TX 77007

KIRBY INLAND MARINE LP 18350 Market Street Channelview, TX 77530 UNITED STATES

0 Oilers

This vessel must be manned with the following licensed and unlicensed Personnel. Included in which there must be 0 Certified Lifeboatmen, 0 Certified Tankermen, 0 HSC Type Rating, and 0 GMDSS Operators.

0 Licensed Mates 0 Chief Engineers 0 Masters

0 First Assistant Engineers

0 First Class Pilots 0 Chief Mates 0 Radio Officers 0 Second Mates

0 Second Assistant Engineers

0 Third Mates 0 Master First Class Pilot 0 Able Seamen 0 Ordinary Seamen 0 Third Assistant Engineers

0 Deckhands

0 Licensed Engineers

0 Mate First Class Pilots

0 Qualified Member Engineer

In addition, this vessel may carry 0 Passengers, 0 Other Persons in crew, 0 Persons in addition to crew, and no Others. Total Persons allowed: 0

Route Permitted And Conditions Of Operation:

---Lakes, Bays, and Sounds---

Also, in fair weather only, limited coastwise, not more than twelve (12) miles from shore between St. Marks and Carrabelle, Florida.

This vessel has been granted a fresh water service examination interval in accordance with 46 CFR 31.10-21(a) (2). If this vessel is operated in salt water more than six (6) months in any twelve (12) month period, the vessel must be inspected using salt water intervals per 46 CFR 31.10-21(a)(1) and the cognizant OCMI must be notified in writing as soon as this change in status occurs.

SEE NEXT PAGE FOR ADDITIONAL CERTIFICATE INFORMATION

With this Inspection for Certification having been completed at Freeport, TX, UNITED STATES, the Officer in Charge, Marine Inspection, Houston-Galveston certified the vessel, in all respects, is in conformity with the applicable vessel inspection laws and the rules and regulations prescribed thereunder.

	Annual/Peri	odic/Re-Inspec	ction	This certificate issued by:
Date	Zone	A/P/R	Signature	J. A. COLEMAN COR, USCG, BY DIRECTION
				Officer in Charge, Marine Inspection
				Houston-Galveston
		У.		Inspection Zone



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This tank barge is participating in the Eighth and Ninth Coast Guard Districts' Tank Barge Streamlined Inspection Program (TBSIP). Inspection activities aboard this barge shall be conducted in accordance with its Tank Barge Action Plan (TAP). Inspection issues concerning this barge should be directed to OCMI Houston-Galveston.

---Hull Exams---

Exam Type

Next Exam

Last Exam

Prior Exam

DryDock

30Sep2031

15Dec2021

21Sep2011

Internal Structure

30Nov2026

03Dec2021

Yes

14Nov2016

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

Authorization:

GRADE A AND LOWER AND SPECIFIED HAZARDOUS CARGOES

Total Capacity

Units

Highest Grade Type Part151 Regulated Part153 Regulated Part154 Regulated

29200

Barrel

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	849	13.58
2 P/S	861	13.58
3 P/S	752	13.58

Loading Constraints - Stability

Hull Type	Maximum Load (short tons)	Maximum Draft (ft/in)	Max Density (lbs/gal)	Route Description
Ш	3819	10ft 0in	13.58	R, LBS
111	4690	11ft 9in	13.58	R, LBS

Conditions Of Carriage

Only those cargoes named in the vessel's Cargo Authority Attachment (CAA), Serial #C1-1100869, dated March, 30, 2011, may be carried, and then only in the tanks indicated. When the vessel is carrying cargoes containing greater than 0.5% benzene, the person in charge is responsible for ensuring the provisions of 46 CFR 197, Subpart C are applied.

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 the figures, tables, and appendices of 46 CFR 150 in conjunction with the compatibility group numbers from the "Compat Group No" column listed in the vessel's CAA.

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.

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



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In accordance with 46 CFR Part 39, excluding part 39.4000, this vessel's vapor collection system (VCS) has been inspected to the plans approved by MSC Letter #C1-1100869 dated March, 30, 2011 and has been found acceptable for the collection of bulk liquid cargo vapors annotated with "Yes" in the CAA's VCS column. The VCS system has been approved with a pressure side of 1.5 psig P/V valve with Coast Guard Approval 162.017/167/2. The cargo tank top is suitable for a maximum allowable working pressure (MAWP) of 3.00 psig.

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.

--- Inspection Status ---

Cargo Tanks

	Internal Exam			External Exar	n	
Tank Id	Previous	Last	Next	Previous	Last	Next
1 P/S	21Sep2011	03Dec2021	21Sep2031	14Nov2016	03Dec2021	30Nov2026
2 P/S	21Sep2011	03Dec2021	21Sep2031	14Nov2016	03Dec2021	30Nov2026
3 P/S	21Sep2011	03Dec2021	21Sep2031	14Nov2016	03Dec2021	30Nov2026
			Hydro Test			
Tank Id	Safety Valves	3	Previous	Last	Next	
1 P/S	-		·	21Sep2011	E .	
2 P/S	=		£	21Sep2011	<u> </u>	
3 P/S			*	21Sep2011		

--- 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

^{*}Vapor Control Authorization*

Serial #: C1-1100869

30-Mar-11



Certificate of Inspection

Cargo Authority Attachment

Vessel Name: SMI 30027 Official #: 1234351

Shipyard: Trinity Ashland City

Hull #: 4802

	151 Tank	Cargo I						Tanks		Carg		Environ		Fire	Special Require	ments		
rnk	n Group	Density	Press	Temp.	Hull Typ	Cargo Seg Tank	Туре	Vent	Gauge	Pipe Class	Cont	Tanks	Handling Space	Protection Provided	General /	Materials of Construction	Haz	Con
"M	2P/S, #3P/S	. 13.6			11	1il 2ii	Integral Gravity	PV	Closed	II	G-1	NR	NA		.50-60, .50-70(a), .50-70(b), .50-73, .50-81(a), .50-	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.

	Authorized Cargoes Cargo Identification	n	Maria de la Caración						Condi	tions of Carriage	
*	Name	Chem	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	Vapor Re App'd (Y or N)	VCS Category	Special Requirements In 46 CFR 151 General and Mat'ls of	Insp. Perk
	10. L. Lawrence Corneges			4		+		50	×	.4	
and the same of the same of	zed Subchapter O Cargoes	ATN	37	0	С	111	A	Yes	3	Na	G
Acetonitri		ACN	15 2	0	C	11	Α	Yes	4	,60-70(a), ,55-1(e)	G
Acrylonitr	- Control of the Cont	ADN	37	0	E	11	Α	Yes	1	Na	G
Adiponitri		AKN	34 2	0	NA	III	Α	No	N/A	.50-81, .50-88	G
	C9) nitrates	AEE	8	0	E	[]]	Α	Yes	1	.55-1(b)	G
	ylethanolamine	ABX	43 2	0	NA	tit	A	No	N/A	,50-73, ,56-1(a), (b), (c)	G
	m bisulfite solution (70% or less)	AMH	6	0	NA	EII.	A	No	N/A	.56-1(a), (b), (c), (f), (g)	G
	m hydroxide (28% or less NH3)	AHO	33	0	NA		A	No	N/A	No	G
	ne oil (Coal tar fraction)	BNZ	32	0	C	III	A	Yes	1	.50-60	G
Benzene		BHB	32 ²	0	C	101	A	Yes	1	,50-60	G
Benzene	or hydrocarbon mixtures (having 10% Benzene or more) or hydrocarbon mixtures (containing Acetylene and 10%	BHA	32 2	0	C	111	A	Yes	1	.50-60, .56-1(b), (d), (f), (g)	G
Benzene	or more)									.50-60	G
Benzene,	Toluene, Xylene mixtures (10% Benzene or more)	BTX	32	0	B/C	111	Α	Yes	1	.50-70(a), .50-81(a), (b)	G
Butyl acry	iate (all Isomers)	BAR	14	0	D	111	Α	Yes	2		G
Butyl met	nacrylate	BMH	14	0	D	[1]	A	Yes	2	.50-70(a), .50-81(a), (b)	G
Butyralde	nyde (all isomers)	BAE	19	0	С	111	Α	Yes	1	.55-1(h)	
	oil (light)	CPO	18	0	D	11	Α .	No	N/A	No	G ,
	trachloride	CBT	36	0	NA	111	A	No	N/A	No	G
Caustic pr	otash solution	CPS	5 2	0	NA	111	Α	No	N/A	,50-73, .SS-1(J)	G
	oda solution	CSS	5 2	0	NA	111	Α	No	N/A	.50-73, .55-1(j)	G
	Oil (refined, containing phenolics)	COD	21	0	E	11	Α	No	N/A	.50-73	G
Chlorober		CRB	36	0	D	111	Α	Yes	1	No	G
Chlorofor		CRF	36	0	NA	111	Α	Yes	3	No	G
	aphtha solvent	NCT	33	0	D	111	Α	Yes	1	.50-73	G
creosote	aprillia solvent	ccw	21 2	0	E	ш	A	Yes	1	No	G
	Il isomers)	CRS	21	0	E	[11	Α	Yes	1	No	G
	spent caustic	CSC	5	0	NA	[]]	Α	No	N/A	.50-73, .55-1(b)	G
		CRX		0	E	01	Α	Yes	1	.55-1(I)	G
resylic a		CTA	19 2	0	С	11	A	Yes	4	.55-1(h)	Ģ
rotonald	rocarbon feedstock (containing Butyraldehydes and	CHG		0	С	111	Α	No	N/A	No	G
thylpropy	acrolein)	0011	40	0	D	iii	A	Yes	1	.58-1(a), (b)	G
Cyclohexa		CCH	18		E		A A	Yes	1	.58-1 (b)	G
wolchove	none, Cyclohexanol mixture	CYX	18 2	0	=	m	Α	168		.56-1(a), (b), (c), (g)	G

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

Serial #: C1

C1-1100869 30-Mar-11



Certificate of Inspection

Cargo Authority Attachment

Shipyard: Trinity Ashland City Hull #: 4802

Vessel Name: SMI 30027 Official #: 1234351

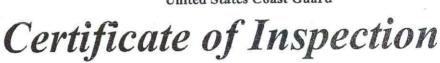
Isoprene

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Cargo Identification	n						(onan	tions of Carriage	
Name	Chem	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	App'd	vCS Category	Special Requirements in 46 CFR 151 General and Mat'ls of	Insp. Perio
	CSB	30	0	D	111	Α	Yes	1	.50-60, .56-1(b)	G
Cyclopentadiene, Styrene, Benzene mixture	IAI	14	0	E	111	Α	Yes	2	.50-70(a), .50-81(a), (b), .55-1(c)	
so-Decyl acrylate	DBX	36	0	E	III	Α	Yes	3	.56-1(a), (b)	G
Dichloropenzene (all isomers)	DCH	36	0	С	111	Α	Yes	1	No	G
,1-Dichloroethane	DEE	41	0	D	11	Α	Yes	. 1	.65-1(f)	G
2,2'-Dichloroethyl ether	DCM	36	0	NA	10	Α	Yes	5	No	G
Dichloromethane	DDE	43	0	E	111	Α	No	N/A	.56-1(a), (b), (c), (g)	G
2,4-Dichiprophenoxyacetic acid, diethanolamine salt solution	DAD	0 1.2		A	111	Α	No	N/A	.58-1(a), (b), (c), (g)	G
2,4-Dichlorophenoxyacetic acid, dimethylamine salt solution		43 2	0	E	Ш	Α	No	N/A	.58-1(a), (b), (c), (g)	G
2,4-Dichlorophenoxyacetic acid, trilsopropanolamine salt solution	DTI	36	0	C	131	A	Yes	3	No	G
1,1-Dichloropropane	DPB	36	0	C	III	A	Yes	3	No	G
1,2-Dichipropropane	DPP		0	C	111	A	Yes	3	No	G
1,3-Dichipropropane	DPC	36	-0	D	11	A	Yes	4	No	G
1,3-Dichloropro pene	DPU	15	0	C		A	Yes	1	No	G
Dichloropropene, Dichloropropane mixtures	DMX	15	-	E	111	A	Yes	1	.55-1(o)	G
Diethanolamine	DEA	8	0		111	A	Yes	3	.55-1(o)	G
Diethylamine	DEN	7	0	C E	111	A	Yes	1	.55-1(c)	G
Diethylerjetriamine	DET	7 2	0		10	A	Yes	3	.55-1(o)	G
Dilsobutylamine	DBU	7	0	D		A	Yes	1	,55-1(c)	G
Dilsopropanolamine	DIP	8	0	E	III		Yes	3	.55-1(c)	G
Dilsopropylamine	DIA	7	0	C	- 11	A	Yes	3	.56-1(b)	G
N.N-Dimethylacetamide	DAC	10	0	E	111	A	Yes	1	.56-1(b), (c)	G
Dimethylethanolamine	DMB	8	0	D	111	A		1	.65-1(e)	G
Dimethylformamide	DMF	10	0	D	111	A	Yes	3	,55-1(c)	G
Di-n-propylamine	DNA	7	0	С	11	A	Yes	N/A	.56-1(b)	G
Dodecyldimethylamine, Tetradecyldimethylamine mixture	DOT	7	0	E	111	Α.	No	N/A		G
Dodecyi diphenyl ether disulfonate solution	DOS	43	0	#		A	No	N/A		G
EE Glycol Ether Mixture	EEG	40	0	D_	111	A	No		.65-1(c)	G
Ethanolamine	MEA	8	0	E	111	Α	Yes	1	.50-70(a), .50-81(a), (b)	G
Ethyl acrylate	EAC	14	0	С	111	A	Yes	2	,55-1(b)	G
Ethylamine solution (72% or less)	EAN	7	0	Α	- 11	A	Yes	6	.55-1(b)	G
N-Ethylbutylamine	EBA	7	0	D	111	A	Yes	. 3		G
N-Ethylcyclohexylamine	ECC	7	0	D	111	Α	Yes	1	,65-1(b)	G
Ethylene cyanohydrin	ETC	20	0	Ė	111	Α	Yes	1	No	G
Ethylenediamine	EDA	7 2	0	D	.111	Α.	Yes	1	.55-1(c)	- 6
Ethylene dichloride	EDC	36 ²	0	С	111	A	Yes	1	No	- G
Ethylene glycol hexyl ether	EGH	40	0	E	Ш	A	No	N/A		
Ethylene glycol monoalkyl ethers	EGC	40	0	D/E	III	Α	Yes	1	No	G
Ethylene glycol propyl ether	EGP	40	0	E	Ш	Α	Yes	1	No	G
2-Ethylene glycor propyr euror 2-Ethylnexyl acrylate	EAI	14	0	E	111	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
ethyl-3-propylacrolein	EPA	19 2	0	E	III	A	Yes	1	No	G
-Etnyi-3-propylacrolein Formaldehyde solution (37% to 50%)	FMS	19 ²	0	D/E	111	Α	Yes	1	,55-1(h)	G
	FFA	19	0	D	Ш	Α	Yes	1	.55-1(h)	G
Furfural	GTA.	19	0	NA	111	А	No	N/A	No	G
Glutaraldehyde solution (50% or less)	НМС		0	E	111	Α	Yes	1	.65-1(c)	G
Hexamethylenediamine solution	HMI	7	0	С	11	Α	Yes	1	.56-1(b), (c)	G
-lexamethylene mine	HFN		0	С	111	Α	Yes	1	.50-70(a), .50-81(e), (b)	G
Hydrocarbon 5-9	IPR	30	0	A	[1]	Α	Yes	7	.50-70(a), .50-81(a), (b)	G

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Cargo Authority Attachment

Vessel Name: SMI 30027 Official #: 1/234351

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Shipyard: Trinity Ashland City

Hull #: 4802

	Course Identification						Conditions of Carriage					
	Cargo Identification	1	1		1			-	Recovery	tions of carriage	1	
	Name	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	App'd	VCS Category	Special Requirements in 46 CFR 151 General and Mat'ls of	Insp. Period	
Isopren	e, Pentadiene mixture	IPN		0	В	111	Α	No	N/A	.50-70(a), .55-1(c)	G	
Kraft pu	uping liquors (free alkali content 3% or more)(including: Black, or White liquor)	KPL	5	0	NA	Ш	A	-No	N/A	.50-73, .58-1(a), (a), (g)	G	
Mesityl	4	MSO	18 2	0	D	111	Α	Yes	1	No	G	
Methyl a		MAM	14	0	С	III	Α	Yes	2	.50-70(a), .50-81(a), (b)	G	
	yclopentadiene dimer	MCK	30	0	С	111	Α	Yes	1	No	G	
	dethanolamine	MDE	8	0	E	111	Α	Yes	1	.56-1(b), (c)	, G	
-	A-5-ethylpyridine	MEP	9	0	E	111	A	Yes	্ৰ	.55-1(e)	G	
-	methacrylate	MMM	14	0	C	111	Α	Yes	2	.50-70(a), .50-81(a), (b)	G	
-	Apyridine	MPR	9	0	D	111	Α	Yes	3	.55-1(a)	G	
	lethylstyrene	MSR	30	0	D	BI	Α	Yes	2	.50-70(a), .50-81(a), (b)	G	
Morphol		MPL	72	0	D	111	Α	Yes	1	,55-1(c)	G	
Nitroeth	<u> </u>	NTE	42	0	D	11	A	No	N/A	.50-81, .56-1(b)	G	
	Vitropropane	NPM	42	0	D	111	Α	Yes	1	.50-81	G	
1,3-Pen	weil and the second s	PDE	30	0	Α	111	Α	Yes	7	.50-70(a), .50-81	G	
	pethylene	PER	36	0	NA	[[]	Α	No	N/A	No	G	
	ene polyamines	PEB	7 2	0	E	111	Α	Yes	1	.55-1(e)	G	
	anolamine	MPA	8	0	E	111	Α	Yes	1	.65-1(a)	G	
	lamine (iso-, n-)	PAX	8	0	E	- 111	Α	Yes	1	.56-1(b), (c)	G	
Iso-Prop	 	IPP	7	0	Α	11	A	Yes	5	.55-1(c)	G	
Pyridine		PRD	9	0	С	111	A	Yes	1	.65-1(e)	G	
	acetate, Glycol, Water mixture (3% or more Sodium Hydroxide)	SAP		0		OH	Α	No	N/A	.50-73, .55-1(j)	G	
***************************************	aluminate solution (45% or less)	SAU	5	0	NA	111	Α	No	N/A	.50-73, .56-1(a), (b), (c)	G	
	phiorate solution (50% or less)	SDD	0 1,2	0	NA	[]]	Α	No	N/A	.50-73	G	
	pypochlorite solution (20% or less)	SHQ	5	0	NA.	Ш	Α	No	N/A	.50-73, .58-1(a), (b)	G	
-	sulfide, hydrosulfide solution (H2S 15 ppm or less)	SSH	0 1,2	0	NA	131	A	Yes	1	.50-73, .55-1(b)	G	
Sodium s	ulfide, hydrosulfide solution (H2S greater than 15 ppm but 1200 ppm)	SSI	0 1,2	0	NA	[11]	Α	No	N/A	.50-73, .55-1(b)	G	
Sodium s	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		0	D	III	Α	Yes	2	No	G	
Styrene r		STY	30	0	D	III	Α	Yes	2	.50-70(a), .50-81(a), (b)	g .	
1,1,2,2-T	etrachloroethane	TEC	36	0	NA	III	A	No	N/A	No	G	
Tetraethy	enepentamine	TTP	7	0	E	H	Α	Yes	1	.55-1(c)	G	
Tetrahyda	ofuran	THF	41	0	С	111	A	Yes	1	.50-70(b)	G	
Toluened	lamine	TDA	9	0	E	11	Α	No	N/A	.50-73, .58-1(a), (b), (c), (g)	G	
1,2,4-Trio	hlorobenzene	TCB	36	0	E	III	Α	Yes	1	No ,	G	
1,1,2-Trio	hioroethane	TCM	36	0	NA	III	Α	Yes	1	.50-73, .58-1(a)	G	
Trichloroe	ethylene	TCL	36 ²	0	NA	111	Α	Yes	1	No	G	
1,2,3-Trio	hloropropane	TCN	36	0	Ε	11	A	Yes	3	.50-73, .56-1(a)	G	
Triethano	lamine	TEA	8 2	0	E	Ш	A	Yes	1	.55-1(b)	G	
Triethylan	nine	TEN	7	0	С	1)	Α	Yes	3	.55-1(a)	G	
Triethylen	etetramine	TET	7 2	0	E	111	Α	Yes	1	,55-1(b)	G	
Triphenyl	porane (10% or less), caustic soda solution	TPB	5	0	NA	111	Α	No	N/A	.58-1(a), (b), (c)	G	
Trisodium	phosphate solution	TSP	5	0	NA	III	Α	No	N/A	.50-73, .56-1(a), (c).	G	
		UAS	6	0	NA	111	A	No	N/A	.56-1(b)	G	
		VBL	5	0	NA	111	Α	No	N/A	.50-73, .56-1(a), (c), (g)	G	
Vinyl acet		VAM	13	0	С	101	Α	Yes	2	.50-70(a), .50-81(a), (b)	G	
Vinyl neod		VND	13	0	E	101	Α	No	N/A	.50-70(a), .50-81(a), (b)	G	
Vinyltolue		VNT	13	0	D	111	Α	Yes	2	.50-70(a), .50-81, .56-1(a), (b), (c), (G	

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

Serial #: C1-1

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Certificate of Inspection

Cargo Authority Attachment

Vessel Name: SMI 30027 Official #: 1234351

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Shipyard: Trinity Ashland City

Hull #: 4802

Cargo Identification	n					A VEGE			tions of Carriage	T
Cargo Identification	Chem	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	App'd	VCS Category	Special Requirements in 46 CFR 151 General and Mat'ls of	Insp. Perio
Name	0000		policina de la constantina della constantina del			10.74	CONTRACTOR NO.	THE PERSON	COLUMN THE PROPERTY AND PERSONS ASSESSMENT OF THE PARTY.	
ubchapter D Cargoes Authorized for Vapor Contr	rol						Yes	1		
ubchapter D Cargoes Authorized to the	ACT	18 2	D	С		A	Yes	1		
cetone	ACP	18	D	E		A	Yes			
cetophenone	APU	20	D	E	1	A		1	d=1	
icohol(C12-C16) poly(1-6)ethoxylates	AEB	20	D	E		A	Yes			
Icohol(C6-C17)(secondary) poly(7-12)ethoxylates	AEC	34	D	D		Α_	Yes	1		
myl acetate (all isomers)	AAI	20	D	D		A	Yes	1		
myl alcohol (iso-, n-, sec-, primary)	BAL	21	D	E		A	Yes	1		
enzyl alcohol	BFX	20	D	E		A	Yes	. 1		
enzyl alconolicrake fluid base mixtures (containing Poly(2-8)aikylene(C2-C3) irake fluid base mixtures (containing Poly(2-8)aikylene(C2-C3) irake fluid base mixtures (containing Poly(2-6)aikylene(C2-C10) glycol monoalkyl(C1-C4) ethers, and leib borate esters)				D		A	Yes	1		
Butyl acetate (all Isomers)	BAX	34	D	-		A	Yes	1		
	JAL	20 2	D	D		A	Yes	-		
utyl alcohol (Iso-)	BAN	20 ²	D	D		A	Yes			0000
utyl alcohol (n-)	BAS	20 ²	D	С			Yes	1		
utyl alcohol (sec-)	BAT		D	С		A		1	X	
sutyl alcohol (tert-)	BPH	34	D	E		Α.	Yes	1		
Butyl benzyl phthalate	BUE	32	D	D		A	Yes	- 1		
sutyl toluene	CLS	22	D	E		Α_	Yes	1		
Caprolactam solutions	CHX	31	D	С		A	Yes			
Cyclohexane	CHN	20	D	E		Α	Yes			
Cyclohexanol (moltan)	CPD	30	D	D/E		A	Yes	2		
3-Cyclopentadiene dimer (molten)	CMP	32	D	D		A	Yes			
-Cymene	IDA	19	D	E		A	Yes	1		
so-Deca dehyde	DAL	19	D	E		A	Yes			
-Decaldehyde	DCE	30	D	D		Α	Yes			-
Decene	DAX	20 2	D	E		Α	Yes			
Decyl alcohol (all isomers)	DBZ	. 32	D	E		Α	Yes			
n-Decylbenzene, see Alkyl(C9+)benzenes	DAA	20 2	D	D		Α	Yes			
Diacetone alcohol	DPA	34	D	Ε	7	Α	Yes			
ortho-Dibutyl phthalate	DEB	32	D	D		Α	Yes			
Diethylbenzene	DEG	40 2	D	E		Α	Yes			
Diethylene glycol	DBL	30	D	С		Α	Yes			
Olisobutylene	DIK	18	D	D		Α	Yes			
Diisobuty ketone	DIX	32	D	Ε		Α	Yes			
Dilsopropylbenzene (all isomers)	DTL	34	D	E		Α	Yes	1		
Dimethyl phthalate	DOF	34	D	E		Α	Yes	1		
Dioctyl phthalate	DPN		D	D		Α	Yes	3 1		
Dipentene	DIL	32	D	D/E		Α	Yes	1		
Diphenyl	DDC	33	D	E		Α	Yes	s 1		
Diphenyl, Diphenyl ether mixtures	DPE		D	{E}		Α	Yes			
Diphenyl ether	DPC		D	E		A	Yes	s 1		
Dipropylene glycol	DFF			E		Α	Yes	s 1		
Distillates Flashed feed stocks			D	E		A	Ye	s 1		
Distillates Straight run	DSI		D	D		A	Ye		0	
Dodecene (all isomers)	DO		D	E	-	A	Ye			
Dodecylbenzene, see Alkyl(C9+)benzenes	DD		D	D		A	Ye			
2-Ethoxyethyl acetate	EE/		D	E		A	Ye			
Ethoxy triglycol (crude)	ETO	3 40	ט		-			-		

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Certificate of Inspection

Cargo Authority Attachment

Shipyard: Trinity Ashland City

Hull #: 4802

Vessel Name: SMI 30027

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Official #: 1234351						_		Condi	tions of Carriage	24
Cargo Identification	on							Recovery		1
Name	Chem	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	App'd	VCS Category	Special Requirements in 46 CFR 151 General and Mat'ls of	Insp. Perio
	ETA	34	D	С		Α	Yes	11		
Ethyl acetate	EAA	34	D	E		Α	Yes	1		
Ethyl acetoacetate	EAL	20 ²	D	C		Α	Yes	1		
Ethyl alcohol	ETB	32	D	С		Α	Yes	11		
Ethylbenzene	EBT	20	D	D		Α	Yes	11		
Ethyl butanol	EBE	41	D	¢		A	Yes	1		
Ethyl tert butyl ether	EBR	34	D	D		A	Yes	1		
Ethyl butyrate	ECY	31	D	D		A	Yes	1		
Ethyl cyclohexane	EGL	20 2	D	E		Α_	Yes	1		
Ethylene glycol Ethylene glycol butyl ether acetate	EMA	34	D	E		Α	Yes	1		
Ethylene glycol diacetate Ethylene glycol diacetate	EGY	34	D	E		Α	Yes	1		
Ethylene glycol phenyl ether	EPE	40	D	E		Α	Yes	1		
Ethylene grycor phenyr eurer Ethyl-3-ethoxypropionate	EEP	34	D	D		A	Yes	1		
	EHX	20	D	E		A	Yes	1		
2-Ethylhexanol	EPR	34	D	С		A	Yes	1		
Ethyl propionate	ETE	32	D	D		Α	Yes	1		
Ethyl toluene	FAM	10	D	E		Α	Yes	1		
Formamide	FAL	20 ²	D	E	1	Α	Yes	1		
Furfuryl alcohol Gasoline blending stocks: Alkylates	GAK	33	D	A/C		Α	Yes	1		
Gasoline blending stocks: Alkylates Gasoline blending stocks: Reformates	GRF	33	D	A/C		Α	Yes	1		
Gasolines: Automotive (containing not over 4.23 grams lead per	GAT	33	D	С		Α	Yes	1	V	-
gallon) Gasolines: Aviation (containing not over 4.86 grams of lead per	GAV	33	D	С		Α	Yes	1		
gallon) Gasolines: Casinghead (natural)	GCS	33	D	A/C		A	Yes	11		
Gasolines: Casinghead (Hatdial) Gasolines: Polymer	GPL	33	D	A/C		Α	Yes	1		
	GSR	33	D	A/C		Α	Yes	1		
Gasolines: Straight run	GCR	20 2	D	E		Α	Yes	1		
Glycerine Heptane (all isomers), see Alkanes (C6-C9) (all Isomers)	HMX	31	D	С		Α	Yes	1		
	HEP	4	D	E		Α	Yes	1		
Heptanoic acld	HTX	20	D	D/E		Α	Yes	1		
leptanol (all Isomers)	HPX	30	D	C		Α	Yes	2		
Heptene (all Isomers)	HPE	34	D	Е		A	Yes	1		
Heptyl acetate (CS CO)	HXS	31 2	D	B/C		Α	Yes	1		
lexane (all isomers), see Alkanes (C6-C9)	HXO	4	D	E		A	Yes	1		
Hexanoic acid	HXN	20	D	D		A	Yes	1		
Hexanol	HEX	30		C		Α .	Yes	2	1	
dexene (all Isomers)	HXG	20	D	E		A	Yes	1		
-lexylene glycol	IPH	18 2	D	E	-	A	Yes	1		
sophorone	JPF	33	D	E		A	Yes	1		
Jet fuel: JP-4	JPV	33	D	D		A	Yes	1		
Jet fuel: JP-5 (kerosene, heavy)	KRS	33	D	D		A	Yes	1	· · · · · · · · · · · · · · · · · · ·	
Kerosene		34	D	D		A	Yes	1		
Methyl adetate	MTT	20 2	D	C		A	Yes	1		
Methyl alcohol	MAL			D	-	A	Yes	1		
Methylamyl acetate	MAC	34				A	Yes	1		
Methylamyl alcohol	MAA	20	D	D			Yes	1.		
Methyl amyl ketone	MAK	18	D	D		A		1		
Methyl tert-butyl ether	MBE	41 2	D	С		A	Yes			
Methyl butyl ketone	MBK	18	D	С	1	Α	Yes	1		

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Certificate of Inspection

Cargo Authority Attachment

Vessel Name: SMI 30027 Official #: 1234351

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Shipyard: Trinity Ashland City

Huli #: 4802

Cargo Identific	cation					,,,	1.414-00	-	tions of Carriage	
Name	Chem	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	App'd	VCS Category	Special Requirements in 46 CFR 151 General and Mat'ls of	Insp. Perlo
	MBU	34	D	C		A	Yes	1		
Methyl butyrate	MEK	18 2	D	С		Α	Yes	1		
Methyl ethyl ketone	MHK	18	D	D		Α	Yes	1		
Methyl heptyl ketone	MIK	18 2	D	C		· A	Yes	1		
Methyl Isobutyl ketone	MNA	32	D	E		Α	Yes	1		
Methyl naphthalene (molten)	MNS	33	D	D		Α	Yes	1		
Mineral spirits	MRE	30	D	0		Α	Yes	1		
Myrcene	NAG	33	D	#		Α	Yes	1		
Naphtha Heavy	PTN	33	D	#		Α	Yes	1		
Naphtha Petroleum	NSV	33	D	D		. A	Yes	1		
Naphtha Solvent	NSS	33	D	D		A	Yes	1		
Naphtha Stoddard solvent	NVM	33	D	С		Α	Yes	1		
Naphthal Varnish makers and painters (75%)	NAX	31	D	D		A	Yes	1		
Nonane (all isomers), see Alkanes (C6-C9)	NON	30	D	D		A	Yes	2		
Nonene (all Isomers)	NNS	20 2	D	E	777	A	Yes	1		
Nonyl alcohol (all Isomers)	NNP	21	D	E		Α	Yes	1		
Nonyl phenol	NPE	40	D	E		A	Yes	1		1
Nonyl phenol poly(4+)ethoxylates	OAX	31	D	c		A	Yes	1		
Octane (all isomers), see Alkanes (C6-C9)	OAY	4	D	E		A	Yes	1		
Octanoic acid (all isomers)	OCX	20 ²	D	E		A	Yes	1		-
Octanol (all Isomers)	OTX	30	D	C		A	Yes	2		
Octene (all isomers)	OTW	33	D	D/E	/=/A	A	Yes	1	V-0	
Dil, fuel: No. 2		33	D	D		A	Yes	1		*******
Dil, fuel: No. 2-D	OTD	33	D	D/E		A	Yes	1		-
DII, fuel: No. 4	OFR	33	D	D/E		A	Yes	1		
NI, fuel: No. 5	OFV		D	E		A	Yes			-
Dil, fuel: No. 6	OSX	33	D	C/D		A	Yes	1		
Oll, misc: Crude	OIL	33		D/E		A	Yes	1		
Dil, misc: Diesel	ODS	33	D			A	Yes	1	- 0-670 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	
oll, misc: Gas, high pour	OGP	33	D	E		A	Yes	1		
oil, mise: Lubricating	OLB	33	D				Yes	1		
II, misc: Residual	ORL	33	D	E		A		1		HATTE
II, misc: Turbine	OTB	33	D	E		A	Yes	5		
entene (all isomers)	PTX	30	D	A		A	Yes	1		
-Pentyl propionate	PPE	34	D	D		A	Yes	1		
lpha-Pinene	PIO	30	D	D		A	Yes		I	
eta-Pinene	PIP	30	D	D		A	Yes	1		
oly(2-8)alkylene glycol monoalkyl(C1-C6) ether	PAG	40	D	E		A	Yes	1		
oly(2-8)alkylene glycol monoalkyl(C1-C6) ether acetate	PAF	34	D	E		A	Yes			
olybutene	PLB	30	D	E		Α	Yes	1		
olypropylene glycol	PGC	40	D	E		Α	Yes	1		
o-Propyl acetate	IAC	34	D	С		A	Yes	1		
-Propyl acetate	PAT	34	D	С		A	Yes	1		
o-Propyl alcohol	IPA	20 2	D	С		Α	Yes	1		
-Propyi alcohol	PAL	20 2	D	С		Α	Yes	1		
Propylbenzene (all Isomers)	PBY	32	D	D		A	Yes	1		
to-Propylcyclohexane	IPX	31	D	D		Α	Yes		<u> </u>	
Propylene glycol	PPG	20 2	D	E		Α	Yes	1.	and the second second second	
Propylene glycol methyl ether acetate	PGN	34	D	D		Α	Yes	1		



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Certificate of Inspection

Cargo Authority Attachment

Vessel Name: SMI 30027 Official #: 1234351

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Shipyard: Trinity Ashland City

Hull #: 4802

Cargo Identific	ation							Condi	Conditions of Carriage						
Gai go i agricon			Y			-	Vapor F	Recovery		T					
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	Ann'd	VCS	Special Requirements in 46 CFR 151 General and Mat'ls of	Insp. Perior					
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	E		Α	Yes	1							
Toluene	TOL	32	D	С		Α	Yes	1							
Tricresyl phosphate (less than 1% of the ortho isomer)	TCP	34	D	E		A	Yes	1	1						
Triethylbenzene	TEB	32	D	E		Α	Yes	1							
Triethylehe glycol	TEG	40	D	E		Α	Yes	1							
Triethyl phosphate	TPS	34	D	E		Α	Yes	1							
Trimethylbenzene (all isomers)	TRE	32	D	{D}		Α	Yes	1							
Trixylenyl phosphate	TRP	34	D	E		Α	Yes	1							
Undecerie	UDC	30	D	D/E		Α	Yes	1							
1-Undecyl alcohol	UND	20	D	E		Α	Yes	1							
Xylenes (ortho-, meta-, para-)	XLX	32	D	D		Α	Yes	1							



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Certificate of Inspection

Cargo Authority Attachment

Vessel Name: SMI 30027 Official #: 1234351

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Shipvard: Trinity Ashland

Hull # 4802

Explanation of terms & symbols used in the Table:

Cargo Identification

Name Chem Code

Compatability Group No.

Note 1 Note 2

Subchapter D Subchapter O Note 3

Grade

A, B, D, E

NA

Hull Typ

The proper shipping name as listed in 48 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 cargo reactive group number assigned for compatibility determinations in 46 CFR Part 150 Tables I and II. In accordance with 48 CFR 150.130, the Person-in-Charge 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 flarmable and combustible liquids listed in 46 CFR Table 30.25-1.
Those hazardous cargoes listed in 46 CFR Table 11.05 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 sufficient hazard to require a moderate degree of control. See 46 CFR 151.10-1(b)(4).

Not applicable to barges certificated under Subchapter D.

Conditions of Carriage

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

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

Conditions of Carriage

Tank Group Vapor Recovery Approved (Y or N) The vessel's lank 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 Pederal 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 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 Category 5 (Polymerizes and highly toxic) Must comply with requirements of Categories 1, 2 and 3.

(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

none

(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.