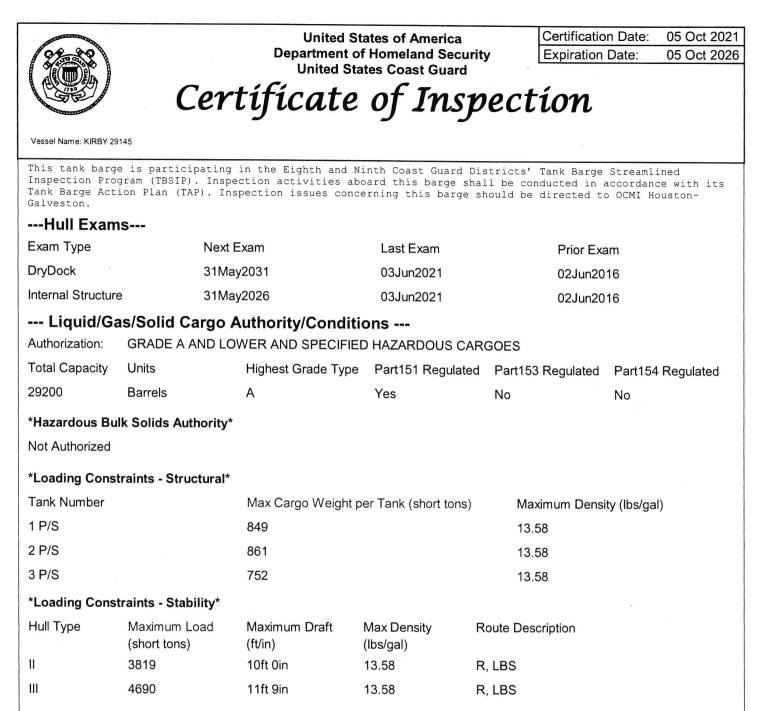
Vessel Name KIRBY 29145		voyages this certifie	Departme United	t States Co te of	ast Guard	pect	Certification Dat Expiration Dat CONT Service Tank	te: 05 Oct 2026
Hailing Port GIBSON, LA UNITED STATE	s		Hull Material Steel	Но	rsepower	Propulsi	ion	
Place Built MADISONVILLE UNITED STATE			Delivery Date	Keel Laid Date 07Apr2011	Gross Tons R-1619 +	Net Tons R-1619 H	DWT	Length R-297.5 I-0
Owner KIRBY INLAND N 55 WAUGH DR S HOUSTON, TX 7 UNITED STATES This vessel must	STE 1000 7007 S be manned wit			183 Cha UN and unlicens	RBY INLAND 350 Market S annelview, TA ITED STATE ed Personne	treet (77530 S I. Includeo	l in which there n	nust be
0 Certified Lifeboo 0 Masters 0 Chief Mates 0 Second Mates 0 Third Mates 0 Master First Class 0 Mate First Class	0 Lio 0 Fin 0 Ra 0 At ss Pilot 0 Or	tied Tankerr censed Mates est Class Pilots adio Officers ole Seamen dinary Seamer schands	0 Chief 0 First A 0 Secon 0 Third 0 Licens	Type Rating Engineers Assistant Engine Assistant Engineers Sed Engineers fied Member Engineers	0 C eers gineers leers	SS Opera		
In addition, this ve Persons allowed: Route Permitter Lakes, Bay Also, in fair we between St. Mari This vessel has (2). If this very vessel must be notified in write ***SEE NEXT F	d And Conditi <b>ys, and So</b> eather only, ks and Carran been granted ssel is opera inspected usi ting as soon	y 0 Passeng ons Of Ope unds limited co belle, Flor d a fresh w ated in sal ing salt wa as this ch	ers, 0 Other eration: astwise, no ida. ater servio t water moi ter interva ange in sta	Persons in c ot more that ce examination re than six als per 46 c atus occurs	n twelve (12 ion interval (6) months CFR 31.10-22	2) miles : l in acco; in any tu l(a)(1) ar	from shore rdance with 46 welve (12) mont	CFR 31.10-21(a) h period, the
the rules and requ	on-Galveston o	certified the sed thereun	vessel, in all der.	respects, is	in conformity This certificat	with the a	pplicable vessel i	nspection laws and
7-19-22 H A/14/23 1 8-8-24 H	tustos TX	A A A Day	andy Ne dee Mil WY E. M	arei -	Officer in Charge, M		uston-Galveston	_

Dept. of Home Sec., USCG, CG-841 (Rev 4-2000)(v2)



#### \*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.



United States of America Department of Homeland Security United States Coast Guard Certification Date:05 Oct 2021Expiration Date:05 Oct 2026

Certificate of Inspection

Vessel Name: KIRBY 29145

\*Vapor Control Authorization\*

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 psig.

In accordance with 46 CFR part 39.1017 and 39.5001(e) this vessel's VCS has been evaluated and approved for multibreasted tandem loading with this vessel.

#### --- Inspection Status ---

*Fuel Tanks*						
у. — Э.	Internal Exami	inations				
Tank ID	Previous	Last	Next			
Deck	-	13May2011	-			
*Cargo Tanks*						
	Internal Exam			External Exan	n	
Tank Id	Previous	Last	Next	Previous	Last	Next
1 P/S	02Jun2016	03Jun2021	03Jun2031	02Jun2016	03Jun2021	31May2026
2 P/S	02Jun2016	03Jun2021	03Jun2031	02Jun2016	03Jun2021	31May2026
3 P/S	02Jun2016	03Jun2021	03Jun2031	02Jun2016	03Jun2021	31May2026
			Hydro Test			
Tank Id	Safety Valves		Previous	Last	Next	
1 P/S	-		-	-	-	
2 P/S	-		-	-	-	
3 P/S	-		-	-	-	
Conditional Portab	le Fire Exti	nguisher Re	equirements	S		
Required Only During Transf	er of Cargo or 0	Operation of Ba	rge Machinery			
Fire Fighting Equi	pment					
*Fire Extinguishers - Hand	portable and s	semi-portable*				
Quantity		Class Typ				
2		40-B				
***END***						



#### Certificate of Inspection Cargo Authority Attachment

Vessel Name: SMI 30021

Shipyard: Trinity Marine Madisonville Hull #: 2191-1

Official #: 1231350

#### 46 CFR 151 Tank Group Characteristics Environmental Cargo Special Requirements Cargo Identification Tanks Tank Group Information Transfer Control Fire Caro Protection Elec Temp Materials of Handling Tnk Hull Pipe Seg Provided Vent Gauge Tanks General Construction Haz Cont Tanks in Group Density Press. Temp. Туре Class Cont Space Grp Тур Tank .50-60, .50-70(a), 55-1(b), (c), (e), (f), NR No ٠ll G-1 NR NA Portable 1ii PV Closed А #1P/S, #2P/S, #3P/S 13.6 Atmos. Amb н Integral (j), 56-1(a), (b), (c), (d), (e), (f), (g), .50-70(b), .50-73, .50-81(a), .50-2ii Gravity 81(b),

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

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

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

#### List of Authorized Cargoes

Cargo Identification	n			•		tions of Carriage	Carriage			
			]				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. Peric
Authorized Subchapter O Cargoes										
Acetonitrile	ATN	37	0	С	111	Α	Yes	3	No	G
Acrylonitrile	ACN	15 <sup>2</sup>	0	C	11	А	Yes	4	.50-70(a), .55-1(e)	G
Adiponitrile	ADN	37	0	Е	11	Α	Yes	1	No	G
Alky!(C7-C9) nitrates	AKN	34 2	0	NA	111	Α	No	N/A	.50-81, .50-86	G
Aminoethylethanolamine	AEE	8	0	Ε	III	А	Yes	1	.55-1(b)	G
Ammonium bisulfite solution (70% or less)	ABX	43 <sup>2</sup>	0	NA	III	Α	No	N/A	.50-73, .56-1(a), (b), (c)	G
Ammonium hydroxide (28% or less NH3)	AMH	6	0	NA	111	A	No	N/A	.56-1(a), (b), (c), (f), (g)	G
Anthracene oil (Coal tar fraction)	AHO	33	0	NA	ii ii	А	No	N/A	No	G
Benzene	BNZ	32	0	С	111	А	Yes	1	.50-60	G
Benzene or hydrocarbon mixtures (having 10% Benzene or more)	BHB	32 <sup>2</sup>	0	С	111	А	Yes	1	.50-60	G
Benzene or hydrocarbon mixtures (containing Acetylene and 10% Benzene or more)	BHA	32 <sup>2</sup>	0	С	. 111	Α	Yes	1	.50-60, .56-1(b), (d), (f), (g)	G
Benzene, Toluene, Xylene mixtures (10% Benzene or more)	BTX	32	о	B/C	Ш	Α	Yes	1	.50-60	G.
Butyl acrylate (all isomers)	BAR	14	0	D	tll	Α	Yes	2	.50-70(a), .50-81(a), (b)	G
Butyl methacrylate	BMH	14	0	D	III	Α	Yes	2	.50-70(a), .50-81(a), (b)	G
Butyraldehyde (all isomers)	BAE	19	0	С	111	А	Yes	1	.55-1(h)	G
Camphor oil (light)	CPO	18	0	D.	11	Α	No	N/A	Ņo	G
Carbon tetrachloride	CBT	36	0	NA	III	Α	No	N/A	No	G
Caustic potash solution	CPS	. 5 <sup>2</sup>	0	NA	III	A	No	N/A	.50-73, .55-1(j)	G
Caustic soda solution	CSS	5 2	ο	NA	111	А	No	N/A	.50-73, .55-1(j)	G
Chemical Oil (refined, containing phenolics)	COD	21	0	Е	11	Α	No	N/A	.50-73	G
Chlorobenzene	CRB	36	0	D	[]]	Α	Yes	1	No	G
Chloroform	CRF	. 36	0	NA	111	Α	Yes	3	No	G
Coal tar naphtha solvent	NCT	33	0	D	111	A	Yes	1	,50-73	G
Creosote	CCW	21 <sup>2</sup>	0	Е	111	Α	Yes	1	No	G
Cresols (all isomers)	CRS	21	0	Е	III	А	Yes	1	No	G
Cresylate spent caustic	CSC	5	0	NA	HI	A	No	N/A	.50-73, .55-1(b)	G
Cresylic acid tar	CRX		0	Е	111	Α	Yes	1	.55-1(f)	G
Crotonaldehyde	СТА	19 <sup>2</sup>	0	С	11	Α	Yes	4	.55-1(h)	G
Crude hydrocarbon feedstock (containing Butyraldehydes and Ethylpropyl acrolein)	CHG		0	С	111	Α	No	N/A	No	G
Cyclohexanone	ССН	18	0	D	Ш	A	Yes	1	.56-1(a), (b)	G
Cyclohexanone, Cyclohexanol mixture	CYX	18 <sup>2</sup>	0	E	111	A	Yes	1	.56-1 (b)	G



Serial #: C1-1100869 Dated: 30-Mar-11

## **Certificate of Inspection** Cargo Authority Attachment

Vessel Name: SMI 30021

Official #: 1231350

Page 2 of 8

Shipyard: Trinity Marine Madisonville Hull #: 2191-1

Cargo Identificatio	n				-	Conditions of Carriage							
				1			Vapor R						
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			
Cyclohexylamine	CHA	7	0	D	III	A	Yes	1	.56-1(a), (b), (c), (g)	G			
Cyclopentadiene, Styrene, Benzene mixture	CSB	30	0	D	III	А	Yes	1	.50-60, .56-1(b)	G			
iso-Decyl acrylate	IAI	14	0	Е	III	Α	Yes	2	.50-70(a), .50-81(a), (b), .55-1(c)	G			
Dichlorobenzene (all isomers)	DBX	36	0	Е		А	Yes	3	.56-1(a), (b)	G			
1,1-Dichloroethane	DCH	36	0	С	· III	Α	Yes	1	No	G			
2.2'-Dichloroethyl ether	DEE	41	0	D	11	A	Yes	1	.55-1(f)	G			
Dichloromethane	DCM	36	0	NA	11	A	Yes	5	No	G			
2,4-Dichlorophenoxyacetic acid, diethanolamine salt solution	DDE	43	0	Ε.	111	A	No	N/A	.56-1(a), (b), (c), (g)	G			
2.4-Dichlorophenoxyacetic acid, direthylamine salt solution	DAD	0 1,2		A	111	A	No	N/A	.56-1(a), (b), (c), (g)	G			
2,4-Dichlorophenoxyacetic acid, triisopropanolamine salt solution	DTI	43 <sup>2</sup>	0	E	111	A	No	N/A	.56-1(a), (b), (c), (g)	G			
	DPB	36	0			A	Yes	3	No	G			
1,1-Dichloropropane	DPP	36	0	c	111	A	Yes	3	No	G			
1,2-Dichloropropane	DPC	36	õ	c	111	A	Yes	3	No	G			
1,3-Dichloropropane	DPU	15	ŏ	D	11	A	Yes	4	No	G			
1,3-Dichloropropene	DPU	15	0	 C		A	Yes	1	No	G			
Dichloropropene, Dichloropropane mixtures	DEA	8	0	E	<u></u> Itt	A	Yes	1	.55-1(c)	G			
Diethanolamine	DEA	7	0	 C		A	Yes	3	.55-1(c)	G			
Diethylamine		72	0	E	 Ifi	A	Yes	1	.55-1(c)	G			
Diethylenetriamine	DET	7	0	 D	 	A	Yes	3	.55-1(c)	G			
Diisobutylamine	DBU						Yes		.55-1(c)	G			
Diisopropanolamine	DIP	8	0	E	. 111	<u>A</u>		3	.55-1(c)	G			
Diisopropylamine	DIA	7	0	<u> </u>	11	<u>A</u>	Yes	3	.56-1(b)	G			
N,N-Dimethylacetamide	DAC	10	0	E	181	<u>A</u>	Yes		.56-1(b), (c)	G			
Dimethylethanolamine	DMB	8	0	D	<u> </u>	A	Yes	1	.55-1(e)	G			
Dimethylformamide	DMF	10	0	D		A	Yes	1		G			
Di-n-propylamine	DNA	7	0	<u> </u>		<u>A</u>	Yes	3	.55-1(c)	G			
Dodecyldimethylamine, Tetradecyldimethylamine mixture	DOT	7	0	E		<u>A</u>	No	N/A		G			
Dodecyl diphenyl ether disulfonate solution	DOS	43	0	#	11	A	No	N/A					
EE Glycol Ether Mixture	EEG	40	0	D	III	A	No	N/A		G			
Ethanolamine	MEA	8	0	E		A	Yes	1	,55-1(c)	G			
Ethyl acrylate	EAC	14	0	С		A	Yes	2	.50-70(a), .50-81(a), (b)	G			
Ethylamine solution (72% or less)	EAN	7	0	Α	, IF	Α	Yes	6	.55-1(b)	G			
N-Ethylbutylamine	EBA	7	0	D	. 111	Α.	Yes	3	.55-1(b)	G			
N-Ethylcyclohexylamine	ECC	7	0	D	111	A	Yes	1	.55-1(b)	G			
Ethylene cyanohydrin	ETC	20	0	E	111	Α	Yes	1	No	G			
Ethylenediamine	EDA	72	0	D	111	Α	Yes	1	.55-1(c)	G			
Ethylene dichloride	EDC	36 <sup>2</sup>	- 0	С		. A	Yes	1	No	G			
Ethylene glycol hexyl ether	EGH	40	0	E	111	А	No	N/A	No	G			
Ethylene glycol monoalkyl ethers	EGC	40	0	D/E	111	Α	Yes	1	No	G			
Ethylene glycol propyl ether	EGP	40	0	E	111	А	Yes	1	No	G			
2-Ethylhexyl acrylate	EAI	14	0	E		A	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	Е	III	Α	Yes	1	No	G			
Formaldehyde solution (37% to 50%)	FMS	19 <sup>2</sup>	0	D/E	111	A	Yes	1	.55-1(h)	G			
Furfural	FFA	19	ō	D		A	Yes	1	.55-1(h)	G			
Glutaraldehyde solution (50% or less)	GTA	19	0	NA		A	No	N/A	No	G			
Hexamethylenediamine solution	HMC		õ	E	111	A	Yes	1	.55-1(c)	G			
Hexamethyleneimine	HMI	7	0	 C		A	Yes	1	.56-1(b), (c)	G			
······································	HFN	1	0	 C	 III	A	Yes	1	.50-70(a), .50-81(a), (b)	G			
Hydrocarbon 5-9	ICN.		<u> </u>		н	<u> </u>	103						



Serial #: C1-1100869 Dated: 30-Mar-11

## Certificate of Inspection Cargo Authority Attachment

Vessel Name: SMI 30021

Official #: 1231350

Page 3 of 8

Shipyard: Trinity Marine Madisonville Hull #: 2191-1

Cargo Identification	<u>.</u>					Conditions of Carriage							
	Γ						Vapor R						
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Tvpe	Tank Group	App'd (Y or N)	VCS Category	Special Requirements in 46 CFR 151 General and Mat'ls of	Insp. Period			
Isoprene	IPR	30	0	A		A	Yes	7	.50-70(a), .50-81(a), (b)	G			
Isoprene, Pentadiene mixture	IPN		0	в	H	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	A	No	N/A	.50-73, .56-1(a), (c), (g)	G			
Mesityl oxide	MSO	18 <sup>2</sup>	0	D	10	Α	Yes	1	No	G			
Methyl acrylate	MAM	14	0	С		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	Е	III	Α	Yes	1	.56-1(b), (c)	G			
2-Methyl-5-ethylpyridine	MEP	9	0	E		Α	Yes	1	.55-1(e)	G			
Methyl methacrylate	MMN	1 14	0	С	111	Α	Yes	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	. 111	A	Yes	2	.50-70(a), .50-81(a), (b)	G			
Morpholine	MPL	72	0	D	111	А	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	111	Α	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	111	Α	No	N/A	No	G			
Polyethylene polyamines	PEB	7 2	0	Е		Α	Yes	1	.55-1(e)	G			
iso-Propanolamine	MPA	8	0	Е	111	A	Yes	1	.55-1(c)	G			
Propanolamine (iso-, n-)	PAX	8	0	Е	Ш	A	Yes	1	.56-1(b), (c)	G			
iso-Propylamine	IPP	7	0	A	II	A	Yes	5	.55-1(c)	G			
Pyridine	PRD	9	0	С	ill	A	Yes	1	.55-1( <del>0</del> )	G			
Sodium acetate, Glycol, Water mixture (3% or more Sodium Hydroxid	e) SAP		0		111	A	No	N/A	.50-73, .55-1(j)	G			
Sodium aluminate solution (45% or less)	SAU	5	0	NA	111	А	No	N/A	.50-73, .56-1(a), (b), (c)	G			
Sodium chlorate solution (50% or less)	SDD	0 1,2		NA		A	No	N/A	.50-73	G			
Sodium hypochlorite solution (20% or less)	SHQ	5	0	NA		A	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	111	A	Yes	1	.50-73, .55-1(b)	G			
Sodium sulfide, hydrosulfide solution (H2S greater than 15 ppm but less than 200 ppm)	SSI	0 1,2		NA	111	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		A	No	N/A	.50-73, .55-1(b)	G			
Styrene (crude)	STX		0			A	Yes	2	No	G			
Styrene monomer	STY	30	0	 D		A	Yes	2	.50-70(a), .50-81(a), (b)	G			
1,1,2,2-Tetrachioroethane	TEC	36	0	NA	 	A	No	~ N/A	No	G			
	TTP	7	0	E	10	Ā	Yes	1	.55-1(c)	G			
Tetraethylenepentamine	THF	41	<u> </u>	<u>с</u>		A	Yes	1	.50-70(b)	G			
Tetrahydrofuran Toluenediamine	TDA	9	õ	E	11	A	No	N/A	.50-73, .56-1(a), (b), (c), (g)	G			
	TCB	36	0	<u>Е</u>		A	Yes	1	No	G			
1,2,4-Trichlorobenzene	TCM	36	0	NA		A	Yes	1	.50-73, .56-1(a)	G			
1,1,2-Trichloroethane	TCL	36 2	0	NA		A	Yes	1	No	G			
Trichloroethylene	TCN	36 -	0	E		A	Yes	3	.50-73, .56-1(a)	G			
1,2,3-Trichloropropane	TEA	8 2	0	E		 	Yes	1	.55-1(b)	G			
Triethanolamine			0	 C	 			3	.55-1(e)	G			
	TEN	7.				A	Yes		.55-1(b)	G			
Triethýlenetetramine	TET		0	E	<u></u>	<u>A</u>	Yes		.56-1(a), (b), (c)	G			
Triphenylborane (10% or less), caustic soda solution	TPB	5	0	NA	111	<u>A</u>	No	N/A	.50-1(a), (b), (c) .50-73, .58-1(a), (c).	G			
Trisodium phosphate solution	TSP	5	0	NA		<u>A</u>	No	N/A	.56-1(b)	G			
Urea, Ammonium nitrate solution (containing more than 2% NH3)	UAS	6	0	NA	111	A	No	N/A		G			
Vanillin black liquor (free alkali content, 3% or more).	VBL	5	0	NA	111	A	No	N/A	.50-73, .56-1(a), (c), (g)	G			
Vinyl acetate	VAM	13	0	<u> </u>		<u>A</u>	Yes	2	.50-70(a), .50-81(a), (b)				
Vinyl neodecanate	VND	13	0	E		A	No	N/A	.50-70(a), .50-81(a), (b)	G			



Serial #: C1-1100869 Dated: 30-Mar-11

## Certificate of Inspection Cargo Authority Attachment

Vessel Name: SMI 30021

2-Ethoxyethyl acetate

Shipyard: Trinity Marine Madisonville Hull #: 2191-1

Official #: 1231350		P	age 4	of 8				Hull #: 2191-1	
Cargo Identificatio	n					(	Condi	tions of Carriage	
Name Vinyltoluene	Chem	Compat Group No 13	Sub Chapter O	Hu Grade Tvr D I	III Tank Group II A	Vapor F App'd (Y or N) Yes	Recovery VCS Category 2	Special Requirements in 46 CFR 151 General and Mat'ls of .50-70(a), .50-81, .56-1(a), (b), (c), (	Insp. Period G
Subchapter D Cargoes Authorized for Vapor Contr	ol								
Acetone	ACT	18 <sup>2</sup>	D	С	Α	Yes	1		
Acetophenone	ACP	18	D	E	Α	Yes	1		
Alcohol(C12-C16) poly(1-6)ethoxylates	APU	20	D	Е	А	Yes	1		
Alcohol(C6-C17)(secondary) poly(7-12)ethoxylates	AEB	20	D	E	Α	Yes	1		
Amyl acetate (all isomers)	AEC	34	D	D	А	Yes	1	· · · · · · · · · · · · · · · · · · ·	
Amyl alcohol (iso-, n-, sec-, primary)	AAI	20	D	D.	A	Yes	1		
Benzyl alcohol	BAL	21	D	E	Α	Yes	1		
Brake fluid base mixtures (containing Poly(2-8)alkylene(C2-C3) glycols, Polyalkylene(C2-C10) glycol monoalkyl(C1-C4) ethers, and their borate esters)	BFX	20	D	E	A	Yes	1		
Butyl acetate (all isomers)	BAX	34	D	D	Α	Yes	· 1		
Butyl alcohol (iso-)	IAL	20 <sup>2</sup>	D	D	Α	Yes	1	· · ·	
Butyl alcohol (n-)	BAN	20 <sup>2</sup>	D	D	Α	Yes	1 .		
Butyl alcohol (sec-)	BAS	20 <sup>2</sup>	D	С	A	Yes	1		
Butyl alcohol (tert-)	BAT		D	С	А	Yes	1		
Butyl benzyl phthalate	BPH	34	D	E	А	Yes	1		
Butyl toluene	BUE	32	D	D	А	Yes	1		
Caprolactam solutions	CLS	22	D	Е	А	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	A	Yes	2		
p-Cymene	CMP	32	D	D	А	Yes	1		
iso-Decaldehyde	IDA	19	D	E	А	Yes	1		
n-Decaldehyde	DAL	19	D	E	Α	Yes	1		
Decene	<b>DCE</b>	30	D	D	А	Yes	1		
Decyl alcohol (all isomers)	DAX	20 <sup>2</sup>	D	E	А	Yes	1		
n-Decylbenzene, see Alkyl(C9+)benzenes	DBZ	32	D	E	А	Yes	1		
Diacetone alcohol	DAA	20 <sup>2</sup>	D	D	А	Yes	1		
ortho-Dibutyl phthalate	DPA	34	D	E	Α	Yes	. 1		
Diethylbenzene	DEB	32	D	D	Α	Yes	1		
Diethylene glycol	DEG	40 <sup>2</sup>	D	E	Α	Yes	1	·······	
Diisobutylene	DBL	30	D	C	A	Yes	1		
Diisobutyl ketone	DIK	18	D	D	Α	Yes	1		. <u> </u>
Diisopropylbenzene (all isomers)	DIX	32	D	Е	Α	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	A	Yes	1		
Diphenyl	DIL	32	D	D/E	А	Yes	1		
Diphenyl, Diphenyl ether mixtures	DDO	33	D	E	Α	Yes	1		
Diphenyl ether	DPE	41	D	{E}	Α	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	А	Yes	1		. –
Dodecene (all isomers)	DOZ	30	D	D	Α	Yes	1	· · · · · · · · · · · · · · · · · · ·	
Dodecylbenzene, see Alkyl(C9+)benzenes	DDB	32	D	E	А	Yes	1		
	EE A		<b>D</b>	<b>D</b>	•	Vaa	4		

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

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Yes

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#### Certificate of Inspection Cargo Authority Attachment

Vessel Name: SMI 30021

Official #: 1231350

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Shipyard: Trinity Marine Madisonville Hull #: 2191-1

Cargo Identificatio	n					Conditions of Carriage						
		Γ		1 1				Recovery				
	Chem	Compat	Sub	Grade	Huli Type	Tank Group	App'd (Y or N)	VCS	Special Requirements in 46 CFR	Insp. Period		
Ethoxy triglycol (crude)	Code ETG	Group No 40	D	E	IVDel	A	Yes	1	101 General and Maris of	Penon		
Ethyl acetate	ETA	34	D	с		A	Yes	1				
Ethyl acetoacetate	EAA	34	D	E		A	Yes	1	· · · · · · · · · · · · · · · · · · ·			
Ethyl alcohol	EAL	20 <sup>2</sup>	D	С		Α	Yes	1				
Ethylbenzene	ETB	32	D	С		A	Yes	1				
Ethyl butanol	EBT	20	D	D		A	Yes	1				
Ethyl tert-butyl ether	EBE	41	D	С		A	Yes	1				
Ethyl butyrate	EBR	34	D	D		Α	Yes	1	· · · · ·			
Ethyl cyclohexane	ECY	31	D	D		A	Yes	1				
Ethylene glycol	EGL	20 2	D	E		A	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-Ethylhexanol	EHX	20	 D	E		A	Yes	1				
Ethyl propionate	EPR	34	 D	c		A	Yes	1	i	· · · · · · · · · · · · · · · · · · ·		
Ethyl toluene	ETE	32	 D	D		A	Yes	1				
Formamide	FAM	10	 D .	E		A	Yes	1				
Furfuryl alcohol	FAL	20 2	 D	<u>Е</u>		A	Yes	1				
Gasoline blending stocks: Alkylates	GAK	33		 A/C		A	Yes	1				
Gasoline blending stocks: Reformates	GRF	33	D	A/C		A	Yes	1		· · · · · ·		
Gasolines: Automotive (containing not over 4.23 grams lead per	GAT	33	 D	C		A	Yes	1				
gallon)	0/11	00	5	Ŭ			100	•				
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)	HMX	31	D	С		A	Yes	1				
Heptanoic acid	HEP	4	D	E		Α	Yes	1				
Heptanol (all isomers)	HTX	20	D	D/E	·	А	Yes	1		*		
Heptene (all isomers)	HPX	30	D	С		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	HXO	4	D	Е		Α	Yes	1		· .		
Hexanol	HXN	20	D	Ď		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 <sup>2</sup>	D	Е		Α	Yes	1				
Jet fuel: JP-4	JPF	33	D	E		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	1				
Methyl alcohol	MAL	20 <sup>2</sup>	D	С		A	Yes	1		<u>.</u>		
Methylamyl acetate	MAC	34	D	D		Α	Yes	1	· · · · · · · · · · · · · · · · · · ·	• •		
Methylamyl alcohol	MAA	20	D	D		Α	Yes	1				
Methyl amyl ketone	MAK	18	D	D		А	Yes	1		· ·		
Methyl tert-butyl ether	MBE	41 <sup>2</sup>	D	С		Α	Yes	1	· · · · · · · · · · · · · · · · · · ·			
· · · · · · · · · · · · · · · · · · ·												



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## **Certificate of Inspection** Cargo Authority Attachment

Vessel Name: SMI 30021

Official #: 1231350

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Shipyard: Trinity Marine Madisonville Hull #: 2191-1

Cargo Identificati	on							Condi	tions of Carriage	
	Chem	Compat	Sub		Hull	Tank	Vapor I App'd	Recovery VCS	Special Requirements in 46 CFR	Insp.
Name	Code	Group No	Chapter	Grade	Type	Group	(Y or N)	Catecorv	151 General and Mat'ls of	Period
Methyl butyl ketone	MBK	18	D	C		A	Yes	1		
Methyl butyrate	MBU	34		C		A	Yes	1		
Methyl ethyl ketone	MEK	18 2	D .	<u>c</u>		<u>A</u>	Yes	1		
Methyl heptyl ketone	MHK	18	D	D		<u>A</u>	Yes	1		
Methyl isobutyl ketone	MIK	18 <sup>2</sup>	D	C		Α	Yes	1		
Methyl naphthalene (molten)	MNA	32	D	E		A	Yes	-1		
Mineral spirits	MNS	33	D	D		A	Yes	1	·	
Myrcene	MRE	30	D	D		Α	Yes	1		÷
Naphtha: Heavy	NAG	33	D	#		A	Yes	1		
Naphtha: Petroleum	PTN	33	D	#		<u>A</u>	Yes	1		
Naphtha: Solvent	NSV	33	D	D		Α	Yes	1		
Naphtha: Stoddard solvent	NSS	33	D.	D		А	Yes	1		
Naphtha: Varnish makers and painters (75%)	NVM	33	D	С		А	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 <sup>2</sup>	D	E		A	Yes	.1		
Nonyl phenol	NNP	21	D	Е		Α 🦯	Yes	1		
Nonyl phenol poly(4+)ethoxylates	NPE	40	D	E		A	Yes	1		
Octane (all isomers), see Alkanes (C6-C9)	OAX	31	D	С		A	Yes	1		
Octanoic acid (all isomers)	OAY	4	D	E		Α	Yes	1		
Octanol (all isomers)	OCX	20 <sup>2</sup>	D	E		A	Yes	1		
Octene (all isomers)	отх	30	D	С		Α	Yes	2	••	
Oil, fuel: No. 2	OTW	33	D	D/E		A	Yes	1		
Oil, fuel: 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	D/E		A	Yes	1	· · · · · · · · · · · · · · · · · · ·	
Oil, fuel: No. 6	OSX	33	D	E		A	Yes	· 1	· · · · · · · · · · · · · · · · · · ·	
Oil, misc: Crude	OIL	33	D	C/D		A	Yes	1	······································	
Oil, misc: Diesel	ODS	33	D	D/E		A	Yes	1		
Oil, misc: Gas, high pour	OGP	33	D	E		A	Yes	1	· · · · · · · · · · · · · · · · · · ·	
Oil, misc: Lubricating	OLB	33	 D	E		A	Yes	1		
Oil, misc: Residual	ORL	33	D	E		A	Yes	. 1		
Oil, misc: Turbine	OTB	33	D	<u>Е</u>		A	Yes	1	· · · · · · · · · · · · · · · · · · ·	
Pentene (all isomers)	PTX	30	 D	 A	-	A	Yes		· · · · · · · · · · · · · · · · · · ·	
n-Pentyl propionate	PPE	34	D	D		A .	Yes	1		
	PIO	30	 D	D				1		
alpha-Pinene	PID	30	 D	D		A	Yes Yes	 1		
beta-Pinene Rehu(2 2) alludana shugal manaallud/(C1 C6) athar	PIP	40	D .				Yes		······	
Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether				E		A		1		
Poly(2-8)aikylene glycol monoalkyl(C1-C6) ether acetate	PAF	34	D	E		A	Yes	1		
Polybutene	PLB	30	D	E		A	Yes	1		
Polypropylene glycol	PGC	40	D	E		A	Yes	1	· · · · · · · · · · · · · · · · · · ·	
iso-Propyl acetate	IAC	34	D	<u> </u>		<u>A</u>	Yes	1		•
n-Propyl acetate	PAT	34	D	C		A	Yes	1		
iso-Propyl alcohol	IPA	20 2	D	С		Α	Yes	1	·	
n-Propyl alcohol	PAL	20 <sup>2</sup>	D	С		. <b>A</b>	Yes	1		
Propylbenzene (all isomers)	PBY	32	D	D		A	Yes	1		
iso-Propylcyclohexane	IPX	31	D	D		Α	Yes	1		
Propylene glycol	PPG	20 <sup>2</sup>	D	E		Α	Yes	1	·	



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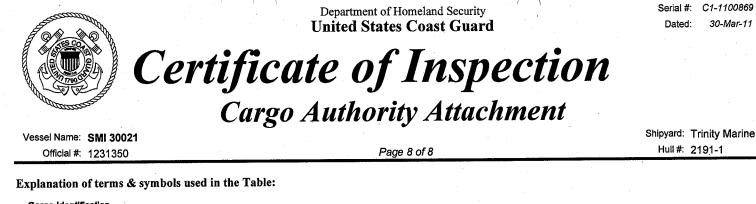
# **Certificate of Inspection** Cargo Authority Attachment

Vessel Name: SMI 30021 Official #: 1231350

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Shipyard: Trinity Marine Madisonville Hull #: 2191-1

Cargo Identific	Conditions of Carriage									
Name Propylene glycol methyl ether acetate	Chem Code PGN	Compat Group No 34	Sub Chapter D	Grade D	Hull Type	Tank Grouo A	Vapor F App'd (Y or N) Yes	Recovery VCS Category 1	Special Requirements in 46 CFR 151 General and Mat'ls of	Insp. Period
Propylene tetramer	PTT	30	D	D		A	Yes	1		
Sulfolane	SFL	39	D	Е		A	Yes	1	•	
Tetraethylene glycol	TTG	40	D	E		Α	Yes	1		
Tetrahydronaphthalene	THN	32	D	E		Α	Yes	1		
Toluene	TOL	32	Ď	С		Α	Yes	1		
Tricresyl phosphate (less than 1% of the ortho isomer)	TCP	34	D	Е		Α	Yes	1		
Triethylbenzene	TEB	32	D	Е		Α	Yes	1		
Triethylene glycol	TEG	40	D	Е		Α	Yes	1		
Triethyl phosphate	TPS	34	D	Ε		Α	Yes	1		
Trimethylbenzene (all isomers)	TRE	32	D.	{D}		Α	Yes	1		
Trixylenyl phosphate	TRP,	34	D	Е		Α	Yes	1		
Undecene	UDC	30	D	D/E		Α	Yes	1		
1-Undecyl alcohol	UND	20	D	Е		Α	Yes	1		
Xylenes (ortho-, meta-, para-)	XLX	32	D	D		Α	Yes	1		



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.
Name Obser Osda	The three letter designation assigned to the cargo in the Chemical Hazards Response Information System (CHRIS) Manual.
Chem Code none	Certain mixtures of cargoes may not have a CHRIS Code assigned.
Compatability Group No.	The cargo reactive group number assigned for compatibility determinations in 46 CFR Part 150 Tables I and II. In accordance with 46 CFR 150.130, the Person-in-Charge of the barge is responsible for ensuring that the compatibility requirements of 46 CFR Part 150 are met. Cargoes must be checked for compatibility using the figures, tables, and appendices of 46 CFR 150 in conjunction with the assigned reactive group number. Because of the very high reactivity or unusual conditions of carriage or potential compatibility problems, this product is not assigned to a specific group in the
Note 1 Note 2	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.
1016 2	See Appendix I to 46 CFR Part 150 - exceptions to the compatability chart.
Subchapter	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.
Subchapter D Subchapter O	Those hazardous cargoes listed in 46 CFR Table 151.05 and 46 CFR Part 153 Table 2.
Note 3	Those cargoes listed in 46 CFR Part 153 Table 2 are non-regulated cargoes when carried in bulk on non-oceangoing barges.
Grade	The cargo classification assigned to each flammable or combustible liquid. Grades inside of "{ }" indicate a provisional assignment based upon literature sources which were not verified by manufacturers data. The Person-in-Charge shall verify the cargo grade based on Manufacturers data and ensure that the barge is authorized for carriage of that grade of cargo.
A, B, C	Flammable liquid cargoes, as defined in 46 CFR 30-10.22.
D, E Note 4	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.
NA #	Those subchapter O cargoes which are not classified as a flammable or combustible liquid. No flammability/combustibility grade has been assigned yet, as the necessary flash point/vapor pressure data for such assignments are presently not available.
Hull Type	The required barge hull classification for carriage of the specified Subchapter O hazardous material cargo, see 46 CFR 151.10-1.
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).
NA	Not applicable to barges certificated under Subchapter D.
Conditions of Carriage	
Tank Group	The vessel's tank group (as defined in Section 4) which is authorized for carriage of the named cargo.
Vapor Recovery Approved (Y or N)	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	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.
Vapor Recovery	
Approved (Y or N)	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 35.5 and 46 CFR 39. The cargo tank venting system calculations (46 CFR 39.20-11) and the pressure drop calculations (46 CFR 39.30- 1(b)) must use appropriate friction factors, vapor densities and vapor growth rates.
Category 2	(Polymerizes) Polymerization and residue build-up of these cargoes can adversely affect the vessel by fouling safety componenets and restricting vapor flow which could lead to cargo tank overpressurization. The vessel's owner must develop a method of ensuring all VCS safety components are functional and polymer build-up is not causing an unsafe condition due to increased pressure in the vapor control piping and cargo tanks. The method shall be acceptable to the local Officer in Charge, Marine Inspection. This is in addition to the requirements of Category 1. Please note that a material not normally considered a monomer can be a problem in detonation
Category 3	(Highly toxic) VCSs for these toxic cargoes cannot use a spill valve or rupture disk as the primary means to meet the overfill protection requirement of 46 CFR 39.20-9. This requirement is in addition to the requirements of Category 1.
Category 4	(Polymerizes and highly toxic) Must comply with requirements of Categories 1, 2 and 3.
Category 5	(High vapor pressure) VCS pressure drop calculations for cargoes with a vapor pressure greater than 14.7 psia at 115 F must take into account increased vapor-air mixture densities and vapor growth rates as compared to Category 1cargoes. Consult the Marine Safety Center's VCS Guidelines for further information. This requirement is in addition to the requirements of Category 1.
Category 6	(High vapor pressure and highly toxic) Must comply with requirements of Categories 1, 3 and 5.
Category 7	(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.