			Un	ited States	s of A	merica		Certification Dat	te: 22 Mar 20
State of the second sec	20			nent of Ho ed States			ty	Expiration Date	: 22 Mar 20
	Te	mpo	rary C	ertífi	ica	te of	Insp	vection	
Change and a second second	For ships on intern	ational voyages i	his certificate fulfills the	equirements of S	OLAS 74	as amended, reg	gulation V/14, fo	r a SAFE MANNING DOCUM	ENT.
This Temporary	Certificate of Inspection receipt on board	is issued under d said vessel of th	the provision of Title 46 t ne original certificate of in	Inited States Cod spection, this cer	de, Section rtificate in	i 399, in lieu of ti no case to be va	ne regular certifi Ilid after one yea	cate of inspection, and shall ar from the date of inspection	be in force only until the
Vessel Name			Official Number	IN	10 Numbe	er	Call Sign	Service	
KIRBY 113	42		1245628					Tank Ba	irge
Hailing Port									
NEW ORLE	EANS, LA		Hull Materia		Horsep	ower	Propulsic	20	
			Steel						
UNITED ST	TATES								
Place Built			Delivery Date	Keel Laid Da	ale	Gross Tons	Net Tons	DWT	Length
PORT NEC	HES, TX					R-735	R-735	Diri	R-200.0
			24Apr2013	20Dec20	012	I-	I-		1-0
UNITED ST	AIES								
Owner					Operator				
	ND MARINE L	P				hland Mari			
HOUSTON,	DR STE 1000 TX 77007					MARKET NELVIEW	-)	
UNITED ST						D STATES		-	
				9					
			ollowing license nkermen, 0 HS					in which there mus ors.	t be
0 Masters		0 Licensed N		f Engineers		0 Oil			
0 Chief Mate	es	0 First Class	Pilots 0 First	Assistant En	gineers				
0 Second M	ates	0 Radio Offic	cers 0 Sec	ond Assistant	Engine	ers			
0 Third Mate	es	0 Able Seam	en 0 Thir	d Assistant Er	ngineers	i.			
	st Class Pilot	0 Ordinary S		nsed Engineer					
	Class Pilots	0 Deckhands		ified Member	•				
In addition, the Persons allow		carry 0 Pas	sengers, 0 Othe	er Persons i	in crew	, 0 Persor	is in additio	on to crew, and no	Others. Total
Route Pern	nitted And Cor	nditions Of	Operation:						
Lakes,	Bays, and	Sounds-							
Also, in fa Florida.	ir weather on	ly, not mo	ore than twelve	e (12) mil	es fro	om shore b	etween St	. Marks and Carı	abelle,
				narrat monartheau a sta			46.05		
vessel is or	perated in sa	lt water m	ore than 6 mon	ths in an	y 12 n	onth peri	od, the v	TR 31.10-21(a)(2) vessel must be ir	nspected using
salt water :	intervals per	46 CFR 31	.10-21(a)(1) a	and the co	gnizar	t OCMI no	tified in	writing as soor	as this
change in Si	tatus occurs.								
SEE NEX	XT PAGE FOR	R ADDITIC	NAL CERTIFI	CATE INFO	ORMA	TION			
With this Insp	ection for Certi	fication hav	ing been compl	eted at Por	t Arthu	r, TX, UNI	TED STAT	TES, the Officer in	Charge, Marine
Inspection, M	arine Safety U	hit Port Arth	nur certified the	essel, in al	l respe	ects, is in c	onformity v	with the applicable	vessel inspectio
laws and the	Annual/Per		cribed thereund spection	51.	This	certificate	issued by:	1 date	\mathcal{D}
Date	Zone	A/P/R	Signatu	Ire	1115			DR, USCG, By dir	rection
Date	Zone		Signatt		Officer	in Charge, Mari			
					2			fety Unit Port Arth	ur
					Inspec	tion Zone		The part	(* '
								<u> </u>	

2200		Department	States of America of Homeland Secu tates Coast Guard		cation Date ation Date:	There are a second of the second s
	Tempo	orary Ceri	tífícate oj	Inspect	íon	
Vessel Name: KIRBY 1	1342					
Hull Exan	ns					
Exam Type	Nex	Exam	Last Exam	Prio	r Exam	
DryDock	31M	ar2033	22Mar2023	24A	pr2013	
Internal Structur	e 31M	ar2028	22Mar2023	09M	ar2018	
Liquid/G	as/Solid Cargo	Authority/Condit	tions			
Authorization:	FLAMMABLE/CO	MBUSTIBLE LIQUIDS	AND SPECIFIED HA	ZARDOUS CARG	OES	
Total Capacity	Units	Highest Grade Type	e Part151 Regulated	d Part153 Regula	ted Part15	4 Regulated
11270	Barrels	A	Yes	No	No	
*Hazardous Bu	Ik Solids Authority	÷				
Not Authorized						
Loading Cons	traints - Structural					
Tank Number	traints - otracturar		per Tank (short tons)	Maximum D	ensity (lbs/a	
1		611		15	Charty (103/98	ar)
2		713		15		
3		634		15		
	traints - Stability*	001				
Hull Type	Maximum Load (short tons)	Maximum Draft (ft/in)	Max Density (lbs/gal)	Route Description		
1	1310	8ft 4in	15	BS		
11	1543	9ft 5in	15 I	BS		
111	1524	9ft 4in	15 I	BS		8
Ш	1632	9ft 10in	13.50 L	BS		
Ш	1668	10ft 0in	12.80 L	BS		
III	1758	10ft 5in	15 F	र		
Ш	1848	10ft 10in	13.50 F	र		
Ш	1866	10ft 11in	12.80 F	2		
Conditions Of	Carriage					
		es named in the vesse	l's Cargo Authority At	tachment (CAA). se	rial # C1-130	00801, dated

Only those specified hazardous cargoes named in the vessel's Cargo Authority Attachment (CAA), serial # C1-1300801, dated 12 Mar 2013, may be carried. The specified hazardous cargoes may be carried only in the tanks indicated.

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

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

Vapor Control Authorization

Per 46 CFR 39, excluding Part 39.4000, this vessel's vapor control system (VCS) has been inspected to the plans approved by Marine Safety Center letter serial # C1-1204377, dated 15 Oct 2012, and found acceptable for collection of bulk liquid cargo vapors annotated with "Yes" in the CAA's VCS column.

FOR-200			States of Ame of Homeland			lcation Date: ation Date:	22 Mar 202
	Tempora	United S	States Coast G	Buard			22 Wai 2024
Vessel Name: KIRBY 11342							
Stability and Trim Per 46 CFR 151.10 allowed. When carry	(c) (2), the maximum ta /ing Subchapter "O" ca	ink weights liste rgoes at shallov	ed above reflect ver drafts, the b	uniform (withir arge should al	i 5%) loadi ways be loo	ng at the deepe aded uniformly.	st draft
The maximum desig 15.0 lbs/gal, may be	in density of cargo whic carried as slack loads,	ch may be filled , but shall not ex	to the tank top xceed the tank v	s 8.7 lbs/gal. C veight limits as	argoes wit	th higher densiti ve.	es, up to
Inspection S							
Cargo Tanks							
	Internal Exan	1		External Exa	m		
Tank Id	Previous	Last	Next	Previous	Last	Next	
1	31Mar2013	22Mar2023	31Mar2033	-	-	-	
2	24Apr2013	22Mar2023	31Mar2033	-	-	-	
3	24Apr2013	22Mar2023	31Mar2033	-	-	-	
			Hydro Test				
Tank Id	Safety Valves	5	Previous	Last	Next		
1	-		-	-	-		
2	-		-	-	-		
3	-		-	-	-		
Conditional F	ortable Fire Exti	nguisher Re	equirements	S			
	g Transfer of Cargo or	•					
Fire Fighting	Equipment						
	 Source 1. State 2. State 2						
	- Hand portable and s						
Quantity 2		Class Typ 40-B					
		40-D					
END*							



Certificate of Inspection Cargo Authority Attachment

Vessel Name: CGBM 118

Shipyard: Sterling Shipyard Hull #: H119

Official #: 1245628

Tank Group Information		Cargo Identification				Cargo	Tanks			Cargo Transfer		Environmental Control		Fire	Special Requirements			
Tnk Grp	Tanks in Group	Density	Press.	Temp.	Hull Typ	Seg Tank	Туре	Vent	Gauge	Pipe Handling Protection Materials		Materials of Construction		Temp Cont				
A	#1C, #2C, #3C	15	Atmos.	Amb.	1	1ii 2ii	Integral Gravity	PV	Closed	I	G-1	NR	NA	Portable	40-1(f)(1), .50-5, .50-60, .50-70(a), .50-70(b), .50-73, .50-81(a), .50- 81(b), .50-86,	55-1(b), (c), (e), (f), (h), (j), 56-1(a), (b), (c), (d), (e), (f), (g),	NR	Yes

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.
 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					Conditions of Carriage							
							Vapor Re	ecovery					
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		1											
Acetone cyanohydrin	ACY	0 1,2	0	Е	1	A	Yes	3	.50-5, .50-70(b), .50-73, .50-81	G			
Acetonitrile	ATN	37	0	С	111	А	Yes	3	No	G			
Acrylonitrile	ACN	15 ²	0	С	Ш	А	Yes	4	.50-70(a), .55-1(e)	G			
Adiponitrile	ADN	37	0	Е	П	А	Yes	1	No	G			
Alkyl(C7-C9) nitrates	AKN	34 2	0	NA	III	A	No	N/A	.50-81, .50-86	G			
Allyl alcohol	ALA	15 ²	0	С	1	А	Yes	3	.50-5, .50-73	G			
Allyl chloride	ALC	15	0	В	I	A	Yes	3	.50-5	G			
Aminoethylethanolamine	AEE	8	0	E	111	А	Yes	1	.55-1(b)	G			
Ammonium bisulfite solution (70% or less)	ABX	43 ²	0	NA	Ш	A	No	N/A	.50-73, .56-1(a), (b), (c)	G			
Ammonium hydroxide (28% or less NH3)	AMH	6	0	NA	111	А	No	N/A	.56-1(a), (b), (c), (f), (g)	G			
Aniline	ANL	9	0	E	I	Α	Yes	3	.50-5, .50-73	G			
Anthracene oil (Coal tar fraction)	AHO	33	0	NA	П	А	No	N/A	No	G			
Benzene	BNZ	32	0	С	111	A	Yes	1	.50-60	G			
Benzene or hydrocarbon mixtures (having 10% Benzene or more)	BHB	32 ²	0	С	111	Α	Yes	1	.50-60	G			
Benzene or hydrocarbon mixtures (containing Acetylene and 10% Benzene or more)	BHA	32 ²	0	С	Ш	А	Yes	1	.50-60, .56-1(b), (d), (f), (g)	G			
Benzene, Toluene, Xylene mixtures (10% Benzene or more)	BTX	32	0	B/C	111	A	Yes	1	.50-60	G			
Butyl acrylate (all isomers)	BAR	14	0	D	III	А	Yes	2	.50-70(a), .50-81(a), (b)	G			
Butyl methacrylate	BMH	14	0	D	H	A	Yes	2	.50-70(a), .50-81(a), (b)	G			
Butyraldehyde (all isomers)	BAE	19	0	С	Ш	A	Yes	1	.55-1(h)	G			
Camphor oil (light)	CPO	18	0	D	11	A	No	N/A	No	G			
Carbolic oil	СВО	21	0	E	I	A	Yes	3	.50-5, .50-73	G			
Carbon tetrachloride	CBT	36	0	NA	111	A	No	N/A	No	G			
Caustic potash solution	CPS	5 2	0	NA	Ш	A	No	N/A	.50-73, .55-1(j)	G			
Caustic soda solution	CSS	5 2	0	NA	111	А	No	N/A	.50-73, .55-1(j)	G			
Chemical Oil (refined, containing phenolics)	COD	21	0	Е	11	А	No	N/A	.50-73	G			
Chlorobenzene	CRB	36	0	D	111	А	Yes	1	No	G			
Chloroform	CRF	36	0	NA	111	A	Yes	3	No	G			
Chlorohydrins (crude)	CHD	17	0	D	I	A	Yes	3	.50-5	G			
o-Chloronitrobenzene	CNO	42	0	Е	1	A	No	N/A	.50-5, .50-73	G			
Coal tar crude bases	СТВ	9	0	D	1	А	No	N/A	.50-5, .50-73, .55-1(e)	G			
Coal tar naphtha solvent	NCT	33	0	D	Ш	Α	Yes	1	.50-73	G			
Creosote	CCW	/ 21 2	0	E	111	A	Yes	1	No	G			



Serial #: C1-1300801 Dated: 12-Mar-13

Certificate of Inspection Cargo Authority Attachment

Vessel Name: CGBM 118 Official #: 1245628

Page 2 of 8

Shipyard: Sterling Shipyard Hull #: H119

Name Original operation State operation <th>Cargo Identificatio</th> <th colspan="8">Cargo Identification</th> <th>tions of Carriage</th> <th></th>	Cargo Identificatio	Cargo Identification								tions of Carriage	
Name Cores Total		~						Vapor R	Recovery		
Case year assist CSC S O NA III A No NA NA <thna< th=""> NA NA</thna<>	Name				Grade						
Creasiliand tartCRXOEIIIAVessIM-MINMColonaldehydeCRG11AVess4MonNAMeMCube hydprachenCHG11AVess1M-MINMMMMCyclobeanoneCCH18ODIIIAVess1M-MINMM <t< td=""><td>Cresols (all isomers)</td><td>CRS</td><td>21</td><td>0</td><td>E</td><td>111</td><td>А</td><td>Yes</td><td>1</td><td>No</td><td>G</td></t<>	Cresols (all isomers)	CRS	21	0	E	111	А	Yes	1	No	G
Contradisetyise CTA 19 2 0 C III A Yes 4 45+00 6 Cub shylcopit acordon feedatock (containing Butynaidetrydes and Dispropri acordon) C III A Yes 4 45+00 0 Cyclobesanon C, Cyclobesanol mixture CXH 18 0 D IIII A Yes 1 45+10.0 0 Cyclobesanone, Cyclobesanol mixture CXH 18 0 D IIII A Yes 1 45+10.0 0 Cyclobesanol mixture CXH 18 0 D IIII A Yes 1 45+10.0 0 0 Cyclobesanol mixture CSH 14 0 E III A Yes 1 45+10.0 0 0 0 D III A Yes 1 45+10.0 0 0 D 1 0 A III A Yes 3 35+100 0 0 <td< td=""><td>Cresylate spent caustic</td><td>CSC</td><td>5</td><td>0</td><td>NA</td><td>111</td><td>A</td><td>No</td><td>N/A</td><td>.50-73, .55-1(b)</td><td>G</td></td<>	Cresylate spent caustic	CSC	5	0	NA	111	A	No	N/A	.50-73, .55-1(b)	G
Chush phytopachon fedstack (containing Bulyraidehydes and Ehylpropyl acoloni). C III A No N/A	Cresylic acid tar	CRX		0	E		A	Yes	1	.55-1(f)	G
Entrypropy accretenty Control Contro Control <thcontrol< td="" th<=""><td>Crotonaldehyde</td><td>CTA</td><td>19²</td><td>0</td><td>С</td><td>Ш</td><td>А</td><td>Yes</td><td>4</td><td>.55-1(h)</td><td>G</td></thcontrol<>	Crotonaldehyde	CTA	19 ²	0	С	Ш	А	Yes	4	.55-1(h)	G
Optioneurone, Cysichlexanol mixture CYX 18 0 E III A Yes 1 #4-1 (b) 6 Cyclonexylamine CHA 7 O D III A Yes 1 #4-1 (b) (b) (c) 0 Cyclonexylamine CHA 7 O D III A Yes 1 #4-1 (b) (b) (c)		CHG		0	С	111	A	No	N/A	No	G
Cyclohexylamine CHA 7 0 D III A Yes 1 Methol, Mich (W) 0 Cyclopentadiene, Styrene, Benzene mixture CSB 30 0 D III A Yes 1 5464, 544(10) 0 Cyclopentadiene, Styrene, Benzene mixture CB III A Yes 3 545(10, 6) 0 Dichlorobenzene (all isomers) DBX 38 O E III A Yes 3 545(10, 6) 0 2.2-Dichloroethyl ether DEE 41 O D II A Yes 1 54-10 0 0 2.4-Dichlorophenoxyacetic acid, direthydamine salt solution DDD 24 A No NA 544(0, 6), 60, 60 0 0 1.1-Dichlorophonyacetic acid, trisopropanalamine salt solution DPB 36 O C III A Yes 3 Me 0 1.3-Dichlorophopane DPP 36 O C III A	Cyclohexanone	CCH	18	0	D	111	А	Yes	1	.56-1(a), (b)	G
Construction Construction<	Cyclohexanone, Cyclohexanol mixture	CYX	18 ²	0	Е	111	A	Yes	1	.56-1 (b)	G
Iso-Decyl acrylate IAI 14 0 E III A Yes 2 597806471(0.0)5871(0) 0 Dichloroberzene (all isomers) DBX 36 0 E III A Yes 3 58710(0) 0 2.2-Dichlorobertyl ether DEE 41 0 D II A Yes 1 5510 0 2.2-Dichlorophenoxyacetic acid, diethanolamine salt solution DDE 43 O E III A No N/A 56100.0.0.0.0.0 0 2.4-Dichlorophenoxyacetic acid, direbrylamine salt solution DAD 1 A No N/A 5610.0.0.0.0.0 0 2.4-Dichlorophenoxyacetic acid, triisopropanolamine salt solution DAD C III A No N/A 5610.0.0.0.0 0 1.1-Dichlorophylamine DPP 36 O C III A Yes 3 Me 0 1.3-Dichlorophylamine DPU 15 O D II	Cyclohexylamine	CHA	7	0	D	111	А	Yes	1	.56-1(a), (b), (c), (g)	G
Dick of bolds DBX S6 C III A Yes 3 56 100, 00, 00, 00 1 1,1-Dichloroberhane DCH 36 O C III A Yes 1 No. 0 2,2-Dichloroberhane DCH 36 O NA III A Yes 5 No. 0 2,4-Dichloroberhanoxyacetic acid, diethanolamine salt solution DDE 4.3 O E III A No. N/A 56 100, 00, 00 0 0 2,4-Dichlorophenoxyacetic acid, trisopropanolamine salt solution DTI 4.3 O E III A No. N/A 56 100, 00, 00 0 2,4-Dichlorophoropane DPP 36 O C III A Yes 3 No. 0 0 0 1 A Yes 3 No. 0 0 0 1 3 35 100, 00 0 0 1 3.3 35 100 0 0 </td <td>Cyclopentadiene, Styrene, Benzene mixture</td> <td>CSB</td> <td>30</td> <td>0</td> <td>D</td> <td>ш</td> <td>A</td> <td>Yes</td> <td>1</td> <td>.50-60, .56-1(b)</td> <td>G</td>	Cyclopentadiene, Styrene, Benzene mixture	CSB	30	0	D	ш	A	Yes	1	.50-60, .56-1(b)	G
1.1-DichloroethaneDCH36OCIIIAYes1MeMeMe2.2-Dichloroethyl etherDEE41ODIIIAYes5MeG2.4-DichloroethaneDDE43OAIIIANoNAMe(n) (A) (A) (A)G2.4-Dichlorophenoxyacetic acid, direthyamine salt solutionDDE43OAIIIANoNAMe(n) (A) (A) (A)G2.4-Dichlorophenoxyacetic acid, direthyamine salt solutionDD11CAIIIANes3MeG2.4-Dichlorophenoxyacetic acid, triisopropanelamine salt solutionDD14OCIIIAYes3MeG1.2-DichlorophaneDPC36OCIIIAYes3MeGG1.3-DichlorophaneDPC36OCIIIAYes3MeGG1.3-DichlorophaneDPL15ODIIIAYes1MeGG1.3-DichlorophaneDPL7OCIIIAYes3MeGGDichlorophaneDPL7OCIIIAYes3MeGGDichlorophaneDPL7OCIIIAYes3MeGGDichlorophaneDPL7OCIIIAY	iso-Decyl acrylate	IAI	14	0	E	111	A	Yes	2	.50-70(a), .50-81(a), (b), .55-1(c)	G
2.2:Dichlorosethyl ether DEE 41 O D III A Yes 1 45-10 6 Dichoromethane DCM 36 O NA IIII A Yes 5 Mo 0 2.4-Dichlorophenoxyacetic acid, direthylamine salt solution DD 0 12 O A III A No N/A 45-1(a), Bi-1(a), Bi-1(a) 0 2.4-Dichlorophenoxyacetic acid, dimethylamine salt solution DT 43.2 O E III A No N/A 45-1(a), Bi-1(a) 0 2.4-Dichlorophenoxyacetic acid, finisopropanelamine salt solution DT 43.2 O E III A No N/A 45-1(a), Bi-1(a) 0 1.1-Dichloropropane DPP 36 O C III A Yes 3 Mo 0 0 0 1 1.2-Dichlorophorophone DPU 15 O D III A Yes 1 Mo 0 0 D Dichtophone D D D D D D D	Dichlorobenzene (all isomers)	DBX	36	0	Е	111	A	Yes	3	.56-1(a), (b)	G
Dick DA II A Yes 5 No 0 2,4-Dichlorophenoxyacetic acid, diethanolamine salt solution DAD 012 O A III A No N/A 56-10, 00, 00, 00 0 2,4-Dichlorophenoxyacetic acid, direspropanolamine salt solution DAD 012 O A III A No N/A 56-10, 00, 00, 00 0 2,4-Dichlorophenoxyacetic acid, direspropanolamine salt solution DT 43 2 C E III A No N/A 56-10, 00, 00 0 1,1-Dichloropropane DPP 36 O C III A Yes 3 Ne 0 1,3-Dichloropropane DPC 36 O C III A Yes 3 56-100 0 Dichoropropane DPU 15 O C II A Yes 3 56-160 0 Dichoropropane, Dichloropropane mixtures DET 7 O C	1,1-Dichloroethane	DCH	36	0	С	Ш	A	Yes	1	No	G
A-Dicklorophenoxyacetic acid, direthyanine salt solution DDE 43 O III A No N/A 54-10 60 64 0 2 43 O E III A No N/A 54-10 60 0 2 2.4-Dichlorophenoxyacetic acid, direthyamine salt solution DDI 12 O A III A No N/A 54-100.00.00.00 0 1.1-Dichloropropane DPP 36 O C III A Yes 3 Ne 0 1.3-Dichloropropane DPC 36 O C III A Yes 3 Ne 0 1.3-Dichloropropene DPU 15 O D III A Yes 1 Me 0 0 Dichloropropene 0 Dichloropropene Dichloropropene Dichloropropene 0 C III A Yes 3 55-160 0 D Disopropanin Disopropaniamine DIA<	2,2'-Dichloroethyl ether	DEE	41	0	D	Ш	A	Yes	1	.55-1(f)	G
2.4-Dichlorophenoxyacetic acid, dimethylamine salt solution DAD 0 12 O A III A No N/A 48-1(a), (b), (c), (a) 0 2.4-Dichlorophenoxyacetic acid, triisopropanolamine salt solution DTI 43 2 O E III A No N/A 48-1(a), (b), (c), (a) 0 1.1-Dichloropropane DPB 36 O C III A Yes 3 No 0 1.2-Dichloropropane DPC 36 O C III A Yes 3 No 0 1.3-Dichloropropane Dichloropropane Dichloropropane Dichloropropane Dichloropropane A Yes 1 Mo 0 Dichloropropane Dichloropropane Dichloropropane Dichloropropane Dichloropropane A Yes 1 Mo 0 D Dichloropropane Sicio Dichloropropane	Dichloromethane	DCM	36	0	NA	111	A	Yes	5	No	G
2.4-Dichlorophenoxyacetic acid, triisopropanolamine salt solution DTI 43 2 O E III A No N/A 58-160, (b), (b), (c), (g) 0 1.1-Dichloropropane DPP 36 O C III A Yes 3 No 0 1.3-Dichloropropane DPC 36 O C III A Yes 3 No 0 1.3-Dichloropropane DPU 15 O D II A Yes 4 No 0 Dichloropropane Dichloropropane mixtures DMX 15 O C III A Yes 1 Mo 0 Diethylamine DEN 7 O C III A Yes 3 55-160 0 Disobrytamine DIA 7 O C III A Yes 3 55-160 0 </td <td>2,4-Dichlorophenoxyacetic acid, diethanolamine salt solution</td> <td>DDE</td> <td>43</td> <td>0</td> <td>E</td> <td>111</td> <td>A</td> <td>No</td> <td>N/A</td> <td>.56-1(a), (b), (c), (g)</td> <td>G</td>	2,4-Dichlorophenoxyacetic acid, diethanolamine salt solution	DDE	43	0	E	111	A	No	N/A	.56-1(a), (b), (c), (g)	G
2.4-Dichlorophenoxyacetic acid, triisopropanolamine sait solution DTI 43 2 O E III A No N/A 54-1(a), (b), (c), (a) 0 1.1-Dichloropropane DPB 36 O C III A Yes 3 No 0 1.3-Dichloropropane DPC 36 O C III A Yes 3 No 0 1.3-Dichloropropane DPU 15 O D II A Yes 4 No 0 1.3-Dichloropropane DPU 15 O D II A Yes 1 35-1(a) 0 0 Dichloropropane, Dichloropropane mixtures DFM 7 O C III A Yes 1 35-1(a) 0 Diebtyniemine DEV 7 O C IIII A Yes 3 35-1(a) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		DAD	0 1,2	2 0	A	111	A	No	N/A	.56-1(a), (b), (c), (g)	G
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Diethylamine DEN 7 O C III A Yes 3 55-160 0 Diethylamine DET 7 O E III A Yes 1 55-160 0 Disobotylamine DBU 7 O D III A Yes 3 55-160 0 Disoproplandime DIA 7 O C II A Yes 3 55-160 0 Disoproplamine DIA 7 O C II A Yes 3 55-160 0 Dimethylathanolamine DMB 8 O D III A Yes 3 55-160 0 Dimethylamine DMF 10 O D III A Yes 3 55-160 0 Dodecyl diphenyl ether disulfonate solution DOS 43 O # III A No N/A 55-160 0 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>.55-1(c)</td> <td>G</td>										.55-1(c)	G
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Dispot production DEU T O L In A Yes 1 55-1(c) G Dispot planine DIP 8 O E III A Yes 1 55-1(c) G Dispot planine DIA 7 O C II A Yes 3 55-1(c) G Dispot planine DIA 7 O C II A Yes 3 55-1(c) G Dimethylacetamide DAC 10 O E III A Yes 3 55-1(c) G Dimethylacetamide DMF 10 O D III A Yes 3 55-1(c) G Din-propylamine DNA 7 O C II A Yes 3 55-1(c) G Dodecyldimethylamine, Tetradecyldimethylamine mixture DOT 7 O E IIII A No N/A No	·										G
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Bits propulsion Diff C C I A Yes 3 55-160 G A Ni-Dimethylactamide DAC 10 O E III A Yes 3 55-160 G Dimethylethanolamine DMB 8 O D III A Yes 3 55-160 G Dimethylethanolamine DMF 10 O D III A Yes 3 55-160 G Dimethylethanolamine DMF 10 O D III A Yes 3 55-160 G Dinethylethanolamine DNA 7 O C II A No N/A 56-160 G Dodecyl diphenyl ether disulfonate solution DOS 43 O # II A No N/A No No G G G G G G G G G G G G	-										G
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Dodecyl diphenyl ether disulfonate solutionDOS43O#IIANoN/ANoEE Glycol Ether MixtureEEG40ODIIIANoN/ANoGEpichlorohydrinEPC17ODIAYes3 $50-5$ GEthyl acrylateEAC14OCIIIAYes1 $55-1(c)$ GEthylamine solution (72% or less)EAN7OAIIAYes3 $50-51(a)$ GN-EthylcyclohexylamineEBA7ODIIIAYes3 $55-1(b)$ GN-EthylcyclohexylamineECC7ODIIIAYes3 $55-1(b)$ GEthylene chlorohydrinECC7ODIIIAYes3 $55-1(b)$ GEthylene chlorohydrinECC7ODIIIAYes3 $55-1(b)$ GEthylene dichlorideECC7ODIIIAYes3 $50-51(a)$ GEthylene dichlorideECC7ODIIIAYes3 $50-51(a)$ GEthylene dichlorideEDA7<2											
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Ethyl acrylateEAC140CIIIAYes2 $50-70(a), 50-81(a), (b)$ GEthyl acrylateEAN70AIIAYes6 $55-1(b)$ GEthylamine solution (72% or less)EAN70AIIAYes3 $55-1(b)$ GN-EthylbutylamineEBA70DIIIAYes3 $55-1(b)$ GN-EthylcyclohexylamineECC70DIIIAYes1 $55-1(b)$ GEthylene chlorohydrinECH200DIAYes3 $50-5, 50-73$ GEthylene cyanohydrinETC200EIIIAYes1 No GEthylene dichlorideEDA7 20DIIIAYes1 $55-1(c)$ GEthylene dichlorideEDC36 20CIIIAYes1 No GEthylene glycol hexyl etherEGH400EIIIANoN/ANoG					-						-
Early addyrate EAN 7 0 A III A Yes 6 .55-1(b) 6 N-Ethylbutylamine EBA 7 0 D III A Yes 3 .55-1(b) 6 N-Ethylbutylamine EBA 7 0 D III A Yes 3 .55-1(b) 6 N-Ethylcyclohexylamine ECC 7 0 D III A Yes 1 .55-1(b) 6 Ethylene chlorohydrin ECH 20 0 D I A Yes 3 .50-5, .50-73 6 Ethylene cyanohydrin ETC 20 O E III A Yes 1 .55-1(b) 6 Ethylene dichloride EDA 7 2 O D III A Yes 1 .55-1(b) 6 Ethylene dichloride EDC 36 2 O C III A Yes 1 .55-1(c) 6 Ethylene glycol hexyl ether EGH 40 O E <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>											
Lativation (12.5 of ress)Erk70A1AYes3 $.55-1(b)$ GN-EthylbutylamineEBA7ODIIIAYes3 $.55-1(b)$ GN-EthylcyclohexylamineECC7ODIIIAYes1 $.55-1(b)$ GEthylene chlorohydrinECH20ODIAYes3 $.50-5, 50-73$ GEthylene cyanohydrinETC20OEIIIIAYes1 No GEthylene dichlorideEDA 7^2 ODIIIAYes1 $.55-1(c)$ GEthylene dichlorideEDC 36^2 OCIIIAYes1 No GEthylene glycol hexyl etherEGH40OEIIIANoN/ANoG											
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Ethylene glycol monoalkyl ethers EGC 40 O D/E III A Yes 1 No G											
	Ethylene glycol monoalkyl ethers	EGC	40	0	D/E	111	A	Yes	1	No	G



Certificate of Inspection Cargo Authority Attachment

Vessel Name: CGBM 118 Official #: 1245628

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Shipyard: Sterling Shipyard Hull #: H119

Cargo Identification	<u></u>			6			(Condi	tions of Carriage	
							Vapor R	ecovery		
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
Ethylene glycol propyl ether	EGP	40	0	E	111	А	Yes	1	No	G
2-Ethylhexyl acrylate	EAI	14	0	Е	111	А	Yes	2	.50-70(a), .50-81(a), (b)	G
Ethyl methacrylate	ETM	14	0	D/E	111	А	Yes	2	.50-70(a)	G
2-Ethyl-3-propylacrolein	EPA	19 ²	0	Е	111	А	Yes	1	No	G
Formaldehyde solution (37% to 50%)	FMS	19 ²	0	D/E	Ш	А	Yes	1	.55-1(h)	G
Furfural	FFA	19	0	D	Ш	А	Yes	1	.55-1(h)	G
Glutaraldehyde solution (50% or less)	GTA	19	0	NA	111	А	No	N/A	No	G
Hexamethylenediamine solution	HMC	7	0	Е	111	А	Yes	1	.55-1(c)	G
Hexamethyleneimine	HMI	7	0	С	11	А	Yes	1	.56-1(b), (c)	G
Hydrocarbon 5-9	HFN		0	С	111	А	Yes	1	.50-70(a), .50-81(a), (b)	G
2-Hydroxyethyl acrylate	HAI	0 1,2	0	Е	1	А	Yes	3	.50-5, .50-70(a), .50-73, .50-81(a), (G
Isoprene	IPR	30	0	Α	Ш	Α	Yes	7	.50-70(a), .50-81(a), (b)	G
Isoprene, Pentadiene mixture	IPN		0	в	Ш	А	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	Ш	А	No	N/A	.50-73, .56-1(a), (c), (g)	G
Mesityl oxide	MSO	18 ²	0	D	Ш	А	Yes	1	No	G
Methyl acrylate	MAM	14	0	С	Ш	A	Yes	2	.50-70(a), .50-81(a), (b)	G
Methylcyclopentadiene dimer	MCK	30	0	С	Ш	А	Yes	1	No	G
Methyl diethanolamine	MDE	8	0	Е	111	А	Yes	1	.56-1(b), (c)	G
2-Methyl-5-ethylpyridine	MEP	9	0	Е	111	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	III	A	Yes	3	.55-1(c)	G
alpha-Methylstyrene	MSR	30	0	D	111	А	Yes	2	.50-70(a), .50-81(a), (b)	G
Morpholine	MPL	7 2	0	D	Ш	А	Yes	1	.55-1(c)	G
Nitrobenzene	NTB	42	0	Е	I	А	Yes	3	.50-5, .50-73	G
Nitroethane	NTE	42	0	D	н	А	No	N/A	.50-81, .56-1(b)	G
1- or 2-Nitropropane	NPM	42	0	D	111	А	Yes	1	.50-81	G
o-Nitrotoluene	NIE	42	0	Е	1	А	No	N/A	.50-5, .50-73	G
Pentachloroethane	PCE	36	0	NA	III	Α	No	N/A	No	G
1,3-Pentadiene	PDE	30	0	A	111	А	Yes	7	.50-70(a), .50-81	G
Perchloroethylene	PER	36	0	NA	111	А	No	N/A	No	G
Polyethylene polyamines	PEB	7 2	0	E	111	А	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	E	111	A	Yes	1	.56-1(b), (c)	G
iso-Propylamine	IPP	7	0	A	Ш	А	Yes	5	.55-1(c)	G
Pyridine	PRD	9	0	С	111	Α	Yes	1	.55-1(e)	G
Sodium acetate, Glycol, Water mixture (3% or more Sodium Hydroxide	e) SAP		0		111	Α	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	0	NA	III	А	No	N/A	.50-73	G
Sodium hypochlorite solution (20% or less)	SHQ	5	0	NA	Ш	А	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	Ш	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	0	NA	Ш	А	No	N/A	.50-73, .55-1(b)	G
Sodium sulfide, hydrosulfide solution (H2S greater than 200 ppm)	SSJ	0 1,2	0	NA	11	А	No	N/A	.50-73, .55-1(b)	G
Styrene (crude)	STX		0	D	111	А	Yes	2	No	G
Styrene monomer	STY	30	0	D	111	A	Yes	2	.50-70(a), .50-81(a), (b)	G
1,1,2,2-Tetrachloroethane	TEC	36	0	NA	ш	А	No	N/A	No	G
Tetraethylenepentamine	TTP	7	0	Е	ш	А	Yes	1	.55-1(c)	G
Tetrahydrofuran	THF	41	0	С	Ш	A	Yes	1	.50-70(b)	G
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Serial #: C1-1300801 Dated: 12-Mar-13

Certificate of Inspection Cargo Authority Attachment

Vessel Name: CGBM 118 Official #: 1245628

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Shipyard: Sterling Shipyard Hull #: H119

Cargo Identification	Conditions of Carriage												
						Vapor 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	Insp. Period			
Toluenediamine	TDA	9	0	E	11	А	No	N/A	.50-73, .56-1(a), (b), (c), (g)	G			
o-Toluidine	TLI	9	0	Е	11	А	Yes	3	.50-5, .50-73	G			
1,2,4-Trichlorobenzene	TCB	36	0	E	111	А	Yes	1	No	G			
1,1,2-Trichloroethane	TCM	36	0	NA	111	Α	Yes	1	.50-73, .56-1(a)	G			
Trichloroethylene	TCL	36 2	0	NA	III	А	Yes	1	No	G			
1,2,3-Trichloropropane	TCN	36	0	E	Ш	А	Yes	3	.50-73, .56-1(a)	G			
Triethanolamine	TEA	8 2	0	E	III	А	Yes	1	.55-1(b)	G			
Triethylamine	TEN	7	0	С	Ш	Α	Yes	3	.55-1(e)	G			
Triethylenetetramine	TET	7 2	0	E	III	А	Yes	1	.55-1(b)	G			
Triphenylborane (10% or less), caustic soda solution	TPB	5	0	NA	111	А	No	N/A	.56-1(a), (b), (c)	G			
Trisodium phosphate solution	TSP	5	0	NA	111	А	No	N/A	.50-73, .56-1(a), (c).	G			
Urea, Ammonium nitrate solution (containing more than 2% NH3)	UAS	6	0	NA	111	А	No	N/A	.56-1(b)	G			
Vanillin black liquor (free alkali content, 3% or more).	VBL	5	0	NA	Ш	А	No	N/A	.50-73, .56-1(a), (c), (g)	G			
Vinyl acetate	VAM	13	0	С	Ш	А	Yes	2	.50-70(a), .50-81(a), (b)	G			
Vinyl neodecanate	VND	13	0	E	111	А	No	N/A	.50-70(a), .50-81(a), (b)	G			
Vinyltoluene	VNT	13	0	D	111	А	Yes	2	.50-70(a), .50-81, .56-1(a), (b), (c), (G			
Subchapter D Cargoes Authorized for Vapor Contro													
Acetone	ACT	18 ²	D	С		A	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	D	E		A	Yes	1					
Amyl acetate (all isomers)	AEC	34	D	D		A	Yes	1					
	AAI	20	D	D		A	Yes	1					
Amyl alcohol (iso-, n-, sec-, primary) Benzyl alcohol	BAL	20	D	E		A	Yes	1					
Brizyr atconor 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		A	Yes	1					
Butyl alcohol (iso-)	IAL	20 ²	D	D		A	Yes	1					
Butyl alcohol (n-)	BAN	20 ²	D	D		А	Yes	1					
Butyl alcohol (sec-)	BAS	20 ²	D	С		A	Yes	1					
Butyl alcohol (tert-)	BAT		D	С		А	Yes	1					
Butyl benzyl phthalate	BPH	34	D	E		A	Yes	1					
Butyl toluene	BUE	32	D	D		A	Yes	1					
Caprolactam solutions	CLS	22	D	E		A	Yes	1					
Cyclohexane	CHX	31	D	С		A	Yes	1					
Cyclohexanol	CHN	20	D	E		A	Yes	1					
1,3-Cyclopentadiene dimer (molten)	CPD	30	D	D/E		Α	Yes	2					
p-Cymene	CMP	32	D	D		A	Yes	1					
iso-Decaldehyde	IDA	19	D	E		A	Yes	1					
n-Decaldehyde	DAL	19	D	E		А	Yes	1					
Decene	DCE	30	D	D		А	Yes	. 1					
Decyl alcohol (all isomers)	DAX	20 ²	D	E		A	Yes	1					
n-Decylbenzene, see Alkyl(C9+)benzenes	DBZ	32	D	E		А	Yes	1					
Diacetone alcohol	DAA	20 ²	D	D		A	Yes	1					
ortho-Dibutyl phthalate	DPA	34	D	E		A	Yes	1					
Diethylbenzene	DEB	32	D	D		A	Yes	1					
Diethylene glycol	DEG	40 ²	D	E		A	Yes	1					



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Shipyard: Sterling Shipyard Hull #: H119

Cargo Identification	on					Conditions of Carriage					
							Vapor I	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	Insp. Period	
Diisobutylene	DBL	30	D	С		А	Yes	1			
Diisobutyl ketone	DIK	18	D	D		А	Yes	1			
Diisopropylbenzene (all isomers)	DIX	32	D	Е		A	Yes	1			
Dimethyl phthalate	DTL	34	D	Е		А	Yes	1			
Dioctyl phthalate	DOP	34	D	E		Α	Yes	1			
Dipentene	DPN	30	D	D		А	Yes	1			
Diphenyl	DIL	32	D	D/E		А	Yes	1			
Diphenyl, Diphenyl ether mixtures	DDO	33	D	E		А	Yes	1			
Diphenyl ether	DPE	41	D	{E}		А	Yes	1			
Dipropylene glycol	DPG	40	D	Е		А	Yes	1			
Distillates: Flashed feed stocks	DFF	33	D	E		А	Yes	1			
Distillates: Straight run	DSR	33	D	E		А	Yes	1			
Dodecene (all isomers)	DOZ	30	D	D		А	Yes	1			
Dodecylbenzene, see Alkyl(C9+)benzenes	DDB	32	D	Е		А	Yes	1			
2-Ethoxyethyl acetate	EEA	34	D	D		А	Yes	1			
Ethoxy triglycol (crude)	ETG	40	D	E		А	Yes	1			
Ethyl acetate	ETA	34	D	С		А	Yes	1			
Ethyl acetoacetate	EAA	34	D	E		А	Yes	1			
Ethyl alcohol	EAL	20 ²	D	С		А	Yes	1			
Ethylbenzene	ETB	32	D	С		A	Yes	1			
Ethyl butanol	EBT	20	D	D		А	Yes	1			
Ethyl tert-butyl ether	EBE	41	D	С		А	Yes	1			
Ethyl butyrate	EBR	34	D	D		А	Yes	1			
Ethyl cyclohexane	ECY	31	D	D		А	Yes	1			
Ethylene glycol	EGL	20 ²	D	E		A	Yes	1			
Ethylene glycol butyl ether acetate	EMA	34	D	E		А	Yes	1			
Ethylene glycol diacetate	EGY	34	D	E		А	Yes	1			
Ethylene glycol phenyl ether	EPE	40	D	Е		А	Yes	1			
Ethyl-3-ethoxypropionate	EEP	34	D	D		А	Yes	1			
2-Ethylhexanol	EHX	20	D	E		A	Yes	1			
Ethyl propionate	EPR	34	D	С		A	Yes	1			
Ethyl toluene	ETE	32	D	D		А	Yes	1			
Formamide	FAM	10	D	E		A	Yes	1			
Furfuryl alcohol	FAL	20 ²	D	E		A	Yes	1			
Gasoline blending stocks: Alkylates	GAK	33	D	A/C		А	Yes	1			
Gasoline blending stocks: Reformates	GRF	33	D	A/C		А	Yes	1			
Gasolines: Automotive (containing not over 4.23 grams lead per gallon)	GAT	33	D	С		А	Yes	1			
Gasolines: Aviation (containing not over 4.86 grams of lead per gallon)	GAV	33	D	С		A	Yes	1			
Gasolines: Casinghead (natural)	GCS	33	D	A/C		А	Yes	1			
Gasolines: Polymer	GPL	33	D	A/C		А	Yes	1			
Gasolines: Straight run	GSR	33	D	A/C		А	Yes	1			
Glycerine	GCR	20 ²	D	E		A	Yes	1			
Heptane (all isomers), see Alkanes (C6-C9) (all isomers)	HMX	31	D	С		А	Yes	1			
Heptanoic acid	HEP	4	D	E		A	Yes	1			
Heptanol (all isomers)	HTX	20	D	D/E		А	Yes	1			
Heptene (all isomers)	HPX	30	D	С		А	Yes	2			
Heptyl acetate	HPE	34	D	E		A	Yes	1			



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Shipyard: Sterling Shipyard Hull #: H119

Cargo Ident	ification					Conditions of Carriage					
						1		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	Insp. Period	
Hexane (all isomers), see Alkanes (C6-C9)	HXS	31 ²	D	B/C		А	Yes	1			
Hexanoic acid	HXO	4	D	E		А	Yes	1			
Hexanol	HXN	20	D	D		А	Yes	1			
Hexene (all isomers)	HEX	30	D	С	1	A	Yes	2			
Hexylene glycol	HXG	20	D	E		А	Yes	1			
Isophorone	IPH	18 ²	D	E		А	Yes	1			
Jet fuel: JP-4	JPF	33	D	E		А	Yes	1			
Jet fuel: JP-5 (kerosene, heavy)	JPV	33	D	D		А	Yes	1			
Kerosene	KRS	33	D	D		A	Yes	1			
Methyl acetate	- MTT	34	D	D		A	Yes	1			
Methyl alcohol	MAL	20 ²	D	С		A	Yes	1			
Methylamyl acetate	MAC	34	D	D		A	Yes	1			
Methylamyl alcohol	MAA	20	D	D		А	Yes	1			
Methyl amyl ketone	MAK	18	D	D		A	Yes	1			
Methyl tert-butyl ether	MBE	41 ²	D	С		A	Yes	1			
Methyl butyl ketone	MBK	18	D	С		A	Yes	1			
Methyl butyrate	MBU	34	D	С		A	Yes	1			
Methyl ethyl ketone	MEK	18 ²	D	С		A	Yes	1			
Methyl heptyl ketone	МНК	18	D	D		A	Yes	1			
Methyl isobutyl ketone	MIK	18 ²	D	С		A	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		A	Yes	1			
Naphtha: Heavy	NAG	33	D	#		A	Yes	1			
Naphtha: Petroleum	PTN	33	D	#		A	Yes	1			
Naphtha: Solvent	NSV	33	D	T D		A	Yes	1			
Naphtha: Stoddard solvent	NSS	33	D	D		A	Yes	1	-		
Naphtha: Varnish makers and painters (75%)	NVM	33	D	C		A	Yes	1			
Nonane (all isomers), see Alkanes (C6-C9)	NAX	31	D	D		A	Yes	1			
Nonene (all isomers)	NON	30	D	D		A	Yes	2			
Nonyl alcohol (all isomers)	NNS	20 2	D	E		A	Yes	1			
Nonyl phenol	NNP	20 -	D	E		A					
	NPE	40	D	E		A	Yes	1			
Nonyl phenol poly(4+)ethoxylates											
Octane (all isomers), see Alkanes (C6-C9)	OAX	31	D	C		A	Yes	1			
Octanoic acid (all isomers)	OAY	4	D	E		A	Yes	1			
Octanol (all isomers)	OCX	20 2	D	E		A	Yes	1			
Octene (all isomers)	OTX	30	D	C		A	Yes	2			
Oil, fuel: No. 2	OTW	33	D	D/E		A	Yes	1			
Oil, fuel: No. 2-D	OTD	33	D	D		A	Yes	1			
Oil, fuel: No. 4	OFR	33	D	D/E		A	Yes	1			
Oil, fuel: No. 5	OFV	33	D	D/E		A	Yes	1			
Oil, fuel: No. 6	OSX	33	D	E		A	Yes	1			
Oil, misc: Crude	OIL	33	D	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	C	A	Yes	1			
Oil, misc: Turbine	OTB	33	D	E		A	Yes	1			



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Shipyard: Sterling Shipyard Hull #: H119

Cargo Identifica	tion					Conditions of Carriage						
Name ,	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	Vapor P App'd (Y or N)	Recovery VCS Category	Special Requirements in 46 CFR 151 General and Mat'ls of	Insp. Perio		
Pentane (all isomers)	PTY	31	D	A		A	Yes	5	Livening			
Pentene (all isomers)	PTX	30	D	А		А	Yes	5				
n-Pentyl propionate	PPE	34	D	D		A	Yes	1	,			
alpha-Pinene	PIO	30	D	D		A	Yes	1				
beta-Pinene	PIP	30	D	D		А	Yes	1				
Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether	PAG	40	D	E		А	Yes	1				
Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether acetate	PAF	34	D	E		A	Yes	1				
Polybutene	PLB	30	D	Е		А	Yes	1				
Polypropylene glycol	PGC	40	D	Е		А	Yes	1				
iso-Propyl acetate	IAC	34	D	С		А	Yes	1				
n-Propyl acetate	PAT	34	D	С		A	Yes	1				
iso-Propyl alcohol	IPA	20 ²	D	С		А	Yes	1				
n-Propyl alcohol	PAL	20 ²	D	С		A	Yes	1				
Propylbenzene (all isomers)	PBY	32	D	D		А	Yes	1				
iso-Propylcyclohexane	IPX	31	D	D		А	Yes	1				
Propylene glycol	PPG	20 ²	D	E		A	Yes	1				
Propylene glycol methyl ether acetate	PGN	34	D	D		A	Yes	1				
Propylene tetramer	PTT	30	D	D		А	Yes	1				
Sulfolane	SFL	39	D	E		А	Yes	1				
Tetraethylene glycol	TTG	40	D	E		А	Yes	1				
Tetrahydronaphthalene	THN	32	D	E		А	Yes	1				
Toluene	TOL	32	D	С		А	Yes	1				
Tricresyl phosphate (less than 1% of the ortho isomer)	TCP	34	D	E		А	Yes	1				
Triethylbenzene	TEB	32	D	Е		А	Yes	1				
Triethylene glycol	TEG	40	D	E		А	Yes	1				
Triethyl phosphate	TPS	34	D	E		A	Yes	1				
Trimethylbenzene (all isomers)	TRE	32	D	{D}		А	Yes	1				
Trixylenyl phosphate	TRP	34	D	E		А	Yes	1				
Undecene	UDC	30	D	D/E	1	A	Yes	1				
1-Undecyl alcohol	UND	20	D	E		A	Yes	1				
Xylenes (ortho-, meta-, para-)	XLX	32	D	D		A	Yes	1				



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Explanation of terms & symbols used in the Table:

Cargo Identification	
Name	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 none	The three letter designation assigned to the cargo in the Chemical Hazards Response Information System (CHRIS) Manual. Certain mixtures of cargoes may not have a CHRIS Code assigned.
Compatability Group No.	The cargo reactive group number assigned for compatibility determinations in 46 CFR Part 150 Tables I and II. In accordance with 46 CFR 150.130, the Person-in-Charge of the barge is responsible for ensuring that the compatibility requirements of 46 CFR Part 150 are met. Cargoes must be checked for compatibility using the figures, tables, and appendices of 46 CFR 150 in conjunction with the assigned reactive group number.
Note 1	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-
Note 2	0001. Telephone (202) 372-1425. See Appendix I to 46 CFR Part 150 - exceptions to the compatability chart.
Subchapter Subchapter D	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 O Note 3	Those fearmable and combusible din 46 CFR Table 51.05 and 46 CFR Part 153 Table 2. Those cargoes listed in 46 CFR Table 151.05 and 46 CFR Part 153 Table 2. Those cargoes listed in 46 CFR Part 153 Table 2 are non-regulated cargoes when carried in bulk on non-oceangoing barges.
Grade	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
NA	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 liguid.
#	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. 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).
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).
III NA	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	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 35.35 and 46 CFR 39. The cargo tank venting system calculations (46 CFR 39.20-11) and the pressure drop calculations (46 CFR 39.30- 1(b)) must use appropriate friction factors, vapor densities and vapor growth rates.
Category 2	(Polymerizes) Polymerization and residue build-up of these cargoes can adversely affect the vessel by fouling safety componenets and restricting vapor flow which could lead to cargo tank overpressurization. The vessel's owner must develop a method of ensuring all VCS safety components are functional and polymer build-up is not causing an unsafe condition due to increased pressure in the vapor control piping and cargo tanks. The method shall be acceptable to the local Officer in Charge, Marine Inspection. This is in addition to the requirements of Category 1. Please note that a material not normally considered a monomer can be a problem in detonation
Category 3	(Highly toxic) VCSs for these toxic cargoes cannot use a spill valve or rupture disk as the primary means to meet the overfill protection requirement of 46 CFR 39.20-9. This requirement is in addition to the requirements of Category 1.
Category 4	(Polymerizes and highly toxic) Must comply with requirements of Categories 1, 2 and 3.
Category 5	(High vapor pressure) VCS pressure drop calculations for cargoes with a vapor pressure greater than 14.7 psia at 115 F must take into account increased vapor-air mixture densities and vapor growth rates as compared to Category 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.