

Certificate of Inspection

For ships or a SAFE MANNING DOCUMENT

Vessel Name		01						
				IMO Nur	nber	Call Sign	Service	
000-1708		12	96767				Tank	Barge
Observe Other back and the second s								
Hailing Port								
New Orleans,	LA			Hon	sepower	Propulsion		
			Steel					
UNITED STA	TES							
Place Built			Delwary Data	Kool Land Date				
GALVESTON	1, TX		Derivery Date				DWT	
	TEO			16Jan2020	I-		1088	
UNITED STA	IES							1-0
		(1)(0)						
		INC		CAL	VAL BARGE	COMPANY IN	С	
BELLE CHAS	SE, LA 70037	,		BEI	LE CHASS	KS KU F A 70037		
UNITED STA	TES			UN	TED STATE	ES S		
0 Certified Life	ust be manned eboatmen, 0 C	d with the follow Certified Tanke	ving licensed rmen, 0 HSC	l and unlicense C Type Rating.	ed Personne and 0 GMD	I. Included in w SS Operators	hich there n	nust be
0 Chief Mates	5	0 First Class Pilo		-				
0 Second Ma	tes	0 Radio Officers						
		0 Able Seamen	0 Third	Assistant Engin	eers			
1.1 0.00		0 Ordinary Seam	en 0 Licer	ised Engineers				
			0 Qual	ified Member Eng	gineer			
In addition, th Persons allow	is vessel may o ved: 0	carry 0 Passer	igers, 0 Othe	er Persons in c	rew, 0 Perso	ons in addition to	o crew, and	no Others. Total
Route Perm	nitted And Cor	nditions Of Or	peration					
Also, in fai Carrabelle,	ir weather on Florida.	ly, limited o	coastwise, r	not more twe.	lve (12) mi	les from shore	e between S	t. Marks and
This vessel	has been gra	nted a fresh	Water serv:	ice examinat	ion interva	l in accordance	o with 14	CEP 31 10 214-
1-/ + + +	2 AF336T T3 0	peraled in Sa	ili Water mo	ore than 6 m/	onthe is be	1.1.2		
	send ports untr	er turervate	DET HO LER	31. IU=/ IA	(i) and the	cognizant OCN	41 must be	notified in
This tank ba	arge is parti	cipating in t	the Eighth a	and Ninth Co.	ast Guard D	istricte Tark	Bargo Cross	amlined
							parde prie	amiined
With this Insp	ection for Cert	ification having	been comp	leted at Houst	on, TX, UNI	TED STATES, t	he Officer in	n Charge, Marine
inspection, S	ector Houston-	Galveston cer	lified the ves	sel, in all respe	ects, is in cor	ntormity with the	e applicable	vessel inspection
	Annual/Pe	riodic/Re-Inspe	ection		This certifica	te issued by:		
Date		· · ·				· · · · · ·		Bu Direction
Mar 1 21			abe and			~// /		b, by Direction
5. July-2022	Canalbarg	e P	gdy Ble	erry	- nos in onarge, N		Iston-Galves	ston
19JUL 2022	TBSIP	A A	Jonean Ro	bert Janoy -	Inspection Zone	000101100	Stori-Galves	
	1	1 14	- 0	· /				



Certification Date:21 Apr 2020Expiration Date:21 Apr 2025

Certificate of Inspection

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

				•••;									
Vessel Name			Official Number	IMO	Number	Call Sign	Service						
CBC 1708			1296767				Tank Ba	arge					
Hailing Port			Liuii Matažat			.							
New Orlean	s, LA		Hull Material		Horsepower	Propulsion							
			Steel										
UNITED ST	ATES												
Place Built			Delivery Date	Keel Laid Date	Gross Tons	Net Tons	DWT	Length					
GALVESTC	νN, TX			16Jan202		R-1088	1088	R-200.0					
UNITED ST	ATES				ŀ	ŀ		I-0					
Owner				Op	perator								
	RGE COMPAN	Y INC				COMPANY IN	0						
	ENGINEERS RD 1801 ENGINEERS RD LE CHASSE, LA 70037 BELLE CHASSE, LA 70037												
	ITED STATES UNITED STATES												
	This vessel must be manned with the following licensed and unlicensed Personnel. Included in which there must be												
This vessel n 0 Certified Li	nust be manneo feboatmen. 0 C	d with the fo Certified Ta	ollowing licensed nkermen, 0 HSC	and unlicer	nsed Personne	 Included in whether the second se second second sec	nich there mu	st be					
0 Masters		0 Licensed N		f Engineers		Dilers							
0 Chief Mate		0 First Class		Assistant Engi									
0 Second Ma	ates	0 Radio Offic	ers 0 Seco	nd Assistant E	ingineers								
0 Third Mate	s	0 Able Seam	en 0 Third	Assistant Eng	lineers								
		0 Ordinary S		ised Engineers		·							
0 Mate First	-	0 Deckhands		ified Member E	-								
Persons allow	wed: 0	carry o Pas	sengers, u Otne	r Persons in	crew, U Perso	ons in addition to	crew, and no	Others. Total					
Route Pern	nitted And Con	ditions Of	Operation:	and the standard s									
Lakes,	Bays, and \$	Sounds-											
Also, in fa	ir weather on'	Iv. limite	d coastwise, n	ot more tw	elve (12) mil	es from shore	hotwoon St	Manka and					
Carrabelle,	Florida.	,			CIVC (12) mil		between St.	Marks and					
This vessel	has been grar	nted a fre	sh water servi	ce examina	tion interval	in accordance	e with 46 CF	R 31.10-21(a)					
inspected us	sing salt wate	er interva	ls per 46 CFR	31.10-21 (a	months in any)(1) and the	v 12 month per cognizant OCM	lod, the ves [must be no	sel must be tified in					
writing as s	300n as this c	change in	status occurs.										
This tank ba	arge is partic	cipating i	n the Eighth a	nd Ninth Co	oast Guard Di	stricts Tank H	Barge Stream	lined					
SEE NEX	XT PAGE FOF		NAL CERTIFIC	CATE INFO	RMATION								
With this Insp	ection for Certif	fication hav	ing been comple	eted at Hous	ston, TX, UNIT	ED STATES, th	e Officer in C	harge, Marine					
Inspection, Se	ector Houston-C	Galveston o	ertified the vess	el, in all resp	pects, is in cont	formity with the	applicable ves	ssel inspection					
	Annual/Peri		cribed thereunde	<u>;;,</u>	This certificate	e issued by							
Date	Zone	A/P/R	Signatu	re		e issued by: D. Rodriguez O		y Direction					
Har M·21	1BSIP Chicos		and	····	Officer in Charge, Ma		CG, D						
5. July-2022	Conalbarge		gady Ble.	mins			ton-Galvestor	1					
-			········		Inspection Zone								
	1												

	04-9		De	aartme	nt of Hom	neland	Security				21 Apr 2020 21 Apr 2025
	Carl Sign Control Con										
Vessel Na	ame								Tank	Barge	
CBC 1	1708		129676	<i>(</i>							
Hailing Po	'n		Hull	Material		Horsepowe	r	Propulsi	ion		
New C	Inleans, LA		St	eel							
UNITE	D STATES										
Place Built			Delivery	Date	Keel Laid Date	G	oss Tons	Net Tons	DWT		Length
GALVE	STON, TX				16Jan202	20 R	1088	R-1088	1088		R-200.0
UNITED	STATES					1-		F			FU
Owner					0	perator					
		INC									
									37		
										mus	tbe
		Licensed	Mates	0 Chief	Engineers		0 Oil	ers			
							5				
In addition,	this vessel may ca			ile and a second		0		ns in add	lition to crew, a	nd no	Others. Total
		itions ()	f Oneratio	ant.							
Also, in f	air weather only			ise, no	ot more to	welve	(12) mil	es from	shore betwee	n St.	Marks and
Carrabelle	, Florida.										
inspected i	using salt water	interva	als per 40	5 CFR 3							
					nd Ninth	Coast	Guard Di	stricts	Tank Barge S	trea	mlined
									, rann barge s		
						and the second s					
spection, S	ector Houston-Ga	lveston (certified the	e vesse	el, in all res	spects,	X, UNIT	ED STA formity v	TES, the Office with the applica	er in (ble ve	Charge, Marine essel inspection
ws and the				reunde	r.	T1 *			1		and the second
				anatu	-	This					D. D.
Date			Alt	ghatur	e					CG,	By Direction
r	18518 Chicogo	A	yna			Officer	in Charge, M			heart	
							lion Zona	Sec	tor Houston-Ga	alvest	on
and the second		-				inspec	tion Zone				

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Certification Date: 21 Apr 2020 Expiration Date: 21 Apr 2025

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Vessel Name			Official Number	IMO Num	Der	Call Sign	Service	
CBC 1708			1296767				Tank I	Barge
Hailing Port			Hull Material	Loss	power	Propulsion		
New Orleans	s, LA			HUISE	power	Propulsion		
			Steel					
UNITED ST	ATES							
Place Built			Delivery Date	Keel Laid Date	Gross Tons	Net Tons	DWT	Length
GALVESTO	N, TX			16Jan2020	R-1088	R-1088	1000	R-200.0
UNITED ST	ΔΤΕς			1000112020	I-	I-	1088	I-0
1.00							-	
Owner CANAL BAR	GE COMPAN					COMPANY IN	C	
1801 ENGIN					ENGINEER			
BELLE CHA	SSE, LA 7003	7		BELI	E CHASSE	E, LA 70037		
UNITED STA	ATES			UNIT	ED STATE	S		
This voscal ~	uet ho mone	d with the fell	lowing licensed	and unligence	Dorocare	Included in 1		unt ha
			kermen, 0 HSC				nich there m	iust de
0 Masters		0 Licensed Ma	tes 0 Chief	Engineers	0 0	ilers		
0 Chief Mate	es	0 First Class P	ilots 0 First A	Assistant Enginee	rs			
0 Second Ma	ates	0 Radio Officer	rs 0 Secon	nd Assistant Engir	ieers			
0 Third Mate	s	0 Able Seamer	0 Third a	Assistant Enginee	ers			
	st Class Pilot	0 Ordinary Sea		sed Engineers				
0 Mate First		0 Deckhands		ied Member Engir				
In addition, the Persons allow	nis vessel may wed: 0	carry 0 Pass	engers, 0 Other	Persons in cre	ew, 0 Perso	ns in addition to	crew, and	no Others. Total
Route Pern	nitted And Co	nditions Of C	Operation:					
Lakes,	Bays, and	Sounds	-					
Also, in fa: Carrabelle,	ir weather or Florida.	ly, limited	coastwise, no	ot more twelv	e (12) mil	es from shore	between S	t. Marks and
This vessel	has been are	nted a free	h water servi	re examinatio	n intervol	in accordance	o with AC	CFR 31.10-21(a)
(2). If this	s vessel is c	perated in	salt water mon	re than 6 mon	ths in any	12 month per	iod, the v	essel must be
inspected us writing as a	sing salt wat soon as this	er interval change in s	s per 46 CFR 3 tatus occurs.	31.10-21(a)(1) and the	cognizant OCM	I must be	notified in
			the Eighth ar	nd Ninth Coas	t Guard Di	stricts Tank	Barge Stre	amlined
						Idiik	Durye Dure	amitined
-			NAL CERTIFIC					
Inspection, Se	ector Houston-	Galveston ce	ertified the vesse	el, in all respec	n, TX, UNITI ts, is in conf	ED STATES, the formity with the	ne Officer in applicable v	Charge, Marine /essel inspection
iaws and the		riodic/Re-Insp	ribed thereunder			a include here		
Date	-				nis certificate			
Date	Zone	A/P/R	Signatur			D. Rodriguer 9	R HOCG	By Direction
				Off	icer in Charge, Ma			
1					pection Zone	Sector Hous	ston-Galves	ton
				ins	pection Zone			

82-58		Department	of Homeland Sec	urity		21 Apr 2020 21 Apr 2020
Department of Homeland Security United States Coast Guard Expiration Date: Department of Homeland Security United States Coast Guard Cartificate of Cartificate Source Construction Security Integration Plan (PBSIP). Inspection activities aboard this barge shall be conducted in accordance with Barge Action Plan (PBSIP). Inspection issues concerning this barge shall be conducted in accordance with Barge Action Plan (PBSIP). Inspection issues concerning this barge shall be directed to OCH 9 activities aboard (PBSIP). Inspection issues concerning this barge shall be directed to OCH 9 activities and Part (PBSIP). Inspection issues concerning this barge shall be directed to OCH 9 activities and Part (PBSIP). Inspection issues concerning this barge shall be directed to OCH 9 activities and Part 2000 214pr2020						
Tank Barge Acti						
	S					
Exam Type	Next	Exam	Last Exam		Prior Exam	
DryDock	30Ap	or2030	21Apr2020			
nternal Structure	9 30Ap	or2025	21Apr2020			
Liquid/Ga	s/Solid Cargo	Authority/Condit	tions			
Authorization:	Grade A (max. 25 30.25-1 or 46 CFR	psia Reid) and Lower Part 153 Table 2, and	Flammable or Com Specified Hazardo	bustible Liquids ous Ca	Identified in 46 CFI	R Table
Total Capacity	Units	Highest Grade Type	e Part151 Regula	ted Part153 F	Regulated Part15	4 Regulated
17530	Barrels	Α	Yes	No	No	
'Hazardous Bul	k Solids Authority	ŧ				
Not Authorized						
Loading Const	raints - Structural*					
Tank Number		Max Cargo Weight	per Tank (short ton	s) Maxir	num Density (lbs/ga	al)
1 C		1011		13.74	+	
2 P		566		13.74	Ļ	
2 S		566		13.74	Ļ	
3 C		1007		13.74	Ļ	
Loading Const	raints - Stability					
Hull Type			-	Route Descr	iption	
II	2479	9ft 6in	13.74	R, LBS		
III	2813	10ft 6in	13.74	R, LBS		
		11ft 6in	13.74	R, LBS		

Only those cargoes named in the vessel's Cargo Authority Attachment (CAA), Serial# C1-1900388, dated November 08, 2019 may be carried, and then only in the tanks indicated.

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

As per 46 CFR 150.130, the Person In Charge of the vessel is responsible for ensuring that the compatibility requirements of 46 CFR, Part150, are met. Cargoes must be checked for compatibility using the figures, tables, and appendices of 46 CFR, Part 150, in conjunction with the reactive group numbers from the "Compat Group No" column listed in the vessel's Cargo Authority.

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 13.74 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) 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.



Certification Date:	21 Apr 2020
Expiration Date:	21 Apr 2025

Certificate of Inspection

Vessel Name: CBC 1708

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.

Vapor Control Authorization

In accordance with 46 CFR Part 39, excluding part 39.4000, this vessel's vapor collection system has been inspected to the plans approved by MSC Letter C1-1900388 dated November 08, 2019, 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 162.017/144/3. The cargo tank top is suitable for a maximum allowable working pressure (MAWP) of 3.5 psig.

--- Inspection Status ---

Cargo Tanks

		Internal Exam	ı		External Exa	am	
	Tank Id	Previous	Last	Next	Previous	Last	Next
1	1 C	3-1	21Apr2020	30Apr2030	8		-
	2 P	-	21Apr2020	30Apr2030	-		-
	2 S	-	21Apr2020	30Apr2030	-	-	<u>.</u>
	3 C		21Apr2020	30Apr2030	-	-	-
				Hydro Test			
	Tank Id	Safety Valves	5	Previous	Last	Next	
1	1 C	-		÷	-	-	
	2 P	-		-		12.1	
	2 S	-		-	*	-	
	3 C	-		-	2	- 1	

---- Fire Fighting Equipment ----

Fire Extinguishers - Hand portable and semi-portable

Quantity	Class Type
2	40-B

END



Certificate of Inspection Cargo Authority Attachment

Vessel Name: CBC 1708 Official #: 1296767 Shipyard: Southwest Hull #: 9811

46 CFR 151 Tank Group Characteristics

Tank Group Information		dentificati			Cargo		Tanks		Carg Tran		Enviror Control	mental	Fire	Special Require	ments		
Tnk Grp Tanks in Group	Density	Press.	Temp.	Hull Typ		Туре	Vent	Gauge	Pipe Class	Cont	Tanks	Handling Space	Protection Provided	General	Materials of Construction	Elec Haz	Temp Cont
A #1C,#2P/S,#3C	13.74	Atmos.	Amb.	П	1ii 2ii	Integral Gravity	PV	Closed	II	G-1	NR	NA	Portable	.50-60, .50-70(a), .50-70(b), .50-73,	55-1(b), (c), (e), (f), (h), (j), 56-1(a), (b), (c), (d), (e), (f), (g),	NR	No

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

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

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

List of Authorized Cargoes

Cargo Identification		Cond	itions of Carriage						
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group		Special Requirements in 46 CFR 151 General and Mat'ls of	Insp. Period

Authorized Subchapter O Cargoes

Sodium acetate solution	SAN	34	D/O 3	#		Α	No	N/A		
Acetonitrile	ATN	37	0	С	III	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	Ш	А	Yes	1	No	G
Alkyl (C7-C9) nitrates	AKN	34 ²	0	NA	III	А	No	N/A	.50-81, .50-86	G
Aminoethyl ethanolamine	AEE	8	0	Е	III	А	Yes	1	.55-1(b)	G
Ammonium bisulfite solution (70% or less)	ABX	43 ²	0	NA	III	А	No	N/A	.50-73, .56-1(a), (b), (c)	G
Ammonium hydroxide (28% or less NH3)	AMH	6	0	NA	III	А	No	N/A	.56-1(a), (b), (c), (f), (g)	G
Anthracene oil (Coal tar fraction)	AHO	33	0	NA	Ш	А	No	N/A	No	G
Benzene	BNZ	32	0	С	Ш	А	Yes	1	.50-60	G
Benzene or hydrocarbon mixtures (having 10% Benzene or more)	BHB	32 ²	0	С	III	А	Yes	1	.50-60	G
Benzene or hydrocarbon mixtures (containing Acetylene and 10% Benzene or more)	BHA	32 ²	0	С	III	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	III	А	Yes	1	.50-60	G
Butyl acrylate (all isomers)	BAR	14	0	D	Ш	А	Yes	2	.50-70(a), .50-81(a), (b)	G
Butyl methacrylate	BMH	14	0	D	III	А	Yes	2	.50-70(a), .50-81(a), (b)	G
Butyraldehyde (all isomers)	BAE	19	0	С	III	А	Yes	1	.55-1(h)	G
Camphor oil (light)	CPO	18	0	D	Ш	А	No	N/A	No	G
Carbon tetrachloride	CBT	36	0	NA	III	А	No	N/A	No	G
Caustic potash solution	CPS	5 ²	0	NA		А	No	N/A	.50-73, .55-1(j)	G
Caustic soda solution	CSS	5 ²	0	NA	III	А	No	N/A	.50-73, .55-1(j)	G
Chlorobenzene	CRB	36	0	D	III	А	Yes	1	No	G
Chloroform	CRF	36	0	NA	III	А	Yes	3	No	G
Coal tar naphtha solvent	NCT	33	0	D	Ш	А	Yes	1	.50-73	G
Creosote	CCW	21 ²	0	Е	III	А	Yes	1	No	G
Cresols (all isomers)	CRS	21	0	Е	III	А	Yes	1	No	G
Cresylate spent caustic	CSC	5	0	NA	III	А	No	N/A	.50-73, .55-1(b)	G
Cresylic acid tar	CRX	21	0	Е	III	А	Yes	1	.55-1(f)	G
Crotonaldehyde	CTA	19 ²	0	С	Ш	А	Yes	4	.55-1(h)	G
Crude hydrocarbon feedstock (containing Butyraldehydes and Ethylpropyl acrolein)	CHG	19 ²	0	С	111	A	Yes	1	No	G
Cyclohexanone	CCH	18	0	D	111	А	Yes	1	.56-1(a), (b)	G
Cyclohexanone, Cyclohexanol mixture	CYX	18 ²	0	Е	Ш	А	Yes	1	.56-1 (b)	G
Cyclohexylamine	CHA	7	0	D		А	Yes	1	.56-1(a), (b), (c), (g)	G



Certificate of Inspection Cargo Authority Attachment

Vessel Name: CBC 1708 Official #: 1296767

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Shipyard: Southwest Hull #: 9811

Cargo Identification	n	1						onan	tions of Carriage	
Name		Cargo Identification								
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	App'd	Recovery VCS Category	Special Requirements in 46 CFR 151 General and Mat'ls of Construction	Insp. Period
Cyclopentadiene, Styrene, Benzene mixture	CSB	30	0	D	111	А	Yes	1	.50-60, .56-1(b)	G
iso-Decyl acrylate	IAI	14	0	Е		А	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		А	Yes	1	No	G
2,2'-Dichloroethyl ether	DEE	41	0	D	Ш	А	Yes	1	.55-1(f)	G
Dichloromethane	DCM	36	0	NA	Ш	А	Yes	5	No	G
2,4-Dichlorophenoxyacetic acid, diethanolamine salt solution	DDE	43	0	Е	Ш	А	No	N/A	.56-1(a), (b), (c), (g)	G
2,4-Dichlorophenoxyacetic acid, dimethylamine salt solution	DAD	0 1	^{,2} 0	А	Ш	А	No	N/A	.56-1(a), (b), (c), (g)	G
2,4-Dichlorophenoxyacetic acid, triisopropanolamine salt solution	DTI	43 ²	0	Е	Ш	А	No	N/A	.56-1(a), (b), (c), (g)	G
1,1-Dichloropropane	DPB	36	0	С	Ш	А	Yes	3	No	G
1,2-Dichloropropane	DPP	36	0	С		А	Yes	3	No	G
1,3-Dichloropropane	DPC	36	0	С	Ш	А	Yes	3	No	G
1,3-Dichloropropene	DPU	15	0	D	II	А	Yes	4	No	G
Dichloropropene, Dichloropropane mixtures	DMX	15	0	С	Ш	А	Yes	1	No	G
Diethanolamine	DEA	8	0	Е	III	Α	Yes	1	.55-1(c)	G
Diethylamine	DEN	7	0	С		А	Yes	3	.55-1(c)	G
Diethylenetriamine	DET	7 2	0	Е	Ш	А	Yes	1	.55-1(c)	G
Diisobutylamine	DBU	7	0	D		А	Yes	3	.55-1(c)	G
Diisopropanolamine	DIP	8	0	Е		А	Yes	1	.55-1(c)	G
Diisopropylamine	DIA	7	0	С	Ш	А	Yes	3	.55-1(c)	G
N,N-Dimethylacetamide	DAC	10	0	Е		А	Yes	3	.56-1(b)	G
Dimethylethanolamine	DMB	8	0	D		А	Yes	1	.56-1(b), (c)	G
Dimethylformamide	DMF	10	0	D	111	А	Yes	1	.55-1(e)	G
Di-n-propylamine	DNA	7	0	С	П	А	Yes	3	.55-1(c)	G
Dodecyldimethylamine, Tetradecyldimethylamine mixture	DOT	7	0	Е	III	А	No	N/A	.56-1(b)	G
Dodecyl diphenyl ether disulfonate solution	DOS	43	0	#	П	А	No	N/A	No	G
EE Glycol Ether Mixture	EEG	40	0	D	Ш	А	No	N/A	No	G
Ethanolamine	MEA	8	0	Е	Ш	А	Yes	1	.55-1(c)	G
Ethyl acrylate	EAC	14	0	С	Ш	А	Yes	2	.50-70(a), .50-81(a), (b)	G
Ethylamine solutions (72% or less)	EAN	7	0	Α	П	Α	No	N/A	.55-1(b)	G
N-Ethylbutylamine	EBA	7	0	D	Ш	А	Yes	3	.55-1(b)	G
N-Ethylcyclohexylamine	ECC	7	0	D	III	Α	Yes	1	.55-1(b)	G
Ethylene cyanohydrin	ETC	20	0	Е	III	Α	Yes	1	No	G
Ethylenediamine	EDA	7 ²	0	D	III	Α	Yes	1	.55-1(c)	G
Ethylene dichloride	EDC	36 ²	0	С	Ш	Α	Yes	1	No	G
Ethylene glycol hexyl ether	EGH	40	0	Е		А	No	N/A	No	G
Ethylene glycol monoalkyl ethers	EGC	40	0	D/E	III	Α	Yes	1	No	G
Ethylene glycol propyl ether	EGP	40	0	Е	III	Α	Yes	1	No	G
2-Ethylhexyl acrylate	EAI	14	0	Е		А	Yes	2	.50-70(a), .50-81(a), (b)	G
Ethyl methacrylate	ETM	14	0	D/E		А	Yes	2	.50-70(a)	G
2-Ethyl-3-propylacrolein	EPA	19 ²	0	Е	III	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	III	А	Yes	1	.55-1(h)	G
Glutaraldehyde solutions (50% or less)	GTA	19	0	NA	Ш	А	No	N/A	No	G
Hexamethylenediamine solution	HMC	7	0	Е	Ш	А	Yes	1	.55-1(c)	G
Hexamethyleneimine	HMI	7	0	С	П	А	Yes	1	.56-1(b), (c)	G
Isoprene	IPR	30	0	А	III	Α	No	N/A	.50-70(a), .50-81(a), (b)	G



Certificate of Inspection Cargo Authority Attachment

Vessel Name: CBC 1708 Official #: 1296767

Page 3 of 9

Shipyard: Southwest Hull #: 9811

Name Constitution Sub- Constitution Sub- Orienter Figure Reserves Texts Viger Reserves (T e N) Compare Note and a construction Impute Preserve Isoprene, Pentadiene mixture III N 300 B III A No NA Statute and Statute and Statute and Compare Note and Statute and Statute and Statute and Statute and Statute and Statute and Statute and Statute and Statute and Statute and Statute and Statute and Statute and Statute	Cargo Identification							Conditions of Carriage							
Name Chain State Fail No	Cargo identification		1		1			1		tions of Carriage					
Despendence Despendence <thdespendence< th=""> <thdespendence< th=""></thdespendence<></thdespendence<>	Name		Group		Grade			App'd	VCS	151 General and Mat'ls of					
Groef, or While (quay) Match in the construction of the constructi	Isoprene, Pentadiene mixture	IPN	30	0	В	111	А	No	N/A	.50-70(a), .55-1(c)	G				
Meshy acylate MSO 182 O D III A Yes 1 Model 0 Methylacylate MAM 14 O C III A Yes 1 Model 6 Methylacylacybertadisme dimer MCK 30 O C III A Yes 1 Model 6 Methylacylacybertadisme dimer MCK 30 O E III A Yes 1 Schlat 6 Methylacybergybrane MMM 14 O C III A Yes 1 Schlat 0 0 III A Yes 1 Schlat 0 0 III A Yes 1 Schlat 0 0 III A No NA Schlat 0 A III A No NA Schlat Schlat 0 A III A No NA Schlat Schlat Schlat<		KPL	5	0	NA		А	No	N/A	.50-73, .56-1(a), (c), (g)	G				
Intertity of yake Intertity No.	Mesityl oxide	MSO	18 ²	0	D		А	Yes	1	No	G				
International multical mu	Methyl acrylate	MAM	14	0	С	III	А	Yes	2	.50-70(a), .50-81(a), (b)	G				
Intering advanced method Intering advanced method <thintering advanced="" method<="" th=""> <thintering< td=""><td>Methylcyclopentadiene dimer</td><td>MCK</td><td>30</td><td>0</td><td>С</td><td>III</td><td>Α</td><td>Yes</td><td>1</td><td>No</td><td>G</td></thintering<></thintering>	Methylcyclopentadiene dimer	MCK	30	0	С	III	Α	Yes	1	No	G				
Entertypersons Inc. J J C In A Yes J BAT 100 G 2.Methyperidine MMR 9 O D III A Yes 3 85-10) G G Althyperidine MSR 30 D III A Yes 3 85-10) G G Morpholine MPL 7 O D III A Yes 3 85-10) G G Nitrochana NPL 42 O D III A Yes 1 8-516) G G 1.3-Pertaldene PPE 30 O A III A Yes 1 8-516) G G Iiii A Yes 1 8-516) G Iiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii	Methyl diethanolamine	MDE	8	0	Е		А	Yes	1	.56-1(b), (c)	G				
mean yn lendar ynae mean yn lendar ynae mean yn lendar ynae mean yn lendar yn lendar yn lendar yn lendar yn	2-Methyl-5-ethyl pyridine	MEP	9	0	Е	III	А	Yes	1	.55-1(e)	G				
Enterprise Init	Methyl methacrylate	MMN	1 14	0	С	III	Α	Yes	2	.50-70(a), .50-81(a), (b)	G				
Morpholine MPL 7 2 0 D III A Yes 1 45-10 6 Nitroethane NTE 42 0 D III A No N/A 42-81, 36-10 G 1.or 2-Nitropropane NPM 42 0 D III A No N/A 42-81, 36-10 G 1.or 2-Nitropropane PER 72 0 E III A No N/A 42-10 G Polyethylene polyamines PEB 72 0 E III A Nos N/A 42-10 G Iso-Propanolamine (iso-, n-) PAX 8 0 E III A Yes 1 54-10 G Sodium clares olution (45% or less) SAU 5 O IIII A Yes 1 55-10 G Sodium clares olution (45% or less) SAU 5 O NA III A No N/A <td< td=""><td>2-Methylpyridine</td><td>MPR</td><td>9</td><td>0</td><td>D</td><td> </td><td>Α</td><td>Yes</td><td>3</td><td>.55-1(c)</td><td>G</td></td<>	2-Methylpyridine	MPR	9	0	D		Α	Yes	3	.55-1(c)	G				
Introduction Integration Integration <thintegration< th=""> <thintegration< th=""></thintegration<></thintegration<>	alpha-Methylstyrene	MSR	30	0	D		Α	Yes	2	.50-70(a), .50-81(a), (b)	G				
Intervalue Image: NPM 42 0 D Image: NPM 43 No NNA 45 0 A Nes 1 3641 G Parchlorosthylene PEB 7 0 E III A No NA Ao G Propanolamine MPA 8 0 E III A Yes 1 45-160 G Isopropylamine IPP 7 0 A II A Yes 1 35-160 G Sodium actitic (so, n-) PAX 8 0 C IIII A Yes 1 35-160 G Sodium actitic (so, no (sos) SAU 5 O NA III A No NA 45-73, 55-160 G Sodium actitic (so', no (ses) S	Morpholine	MPL	7 ²	0	D		Α	Yes	1	.55-1(c)	G				
Tot Antrophysins The Tot	Nitroethane	NTE	42	0	D	Ш	А	No	N/A	.50-81, .56-1(b)	G				
Index tradition IDE Col IA NA III A No NA Solution No NA Solution Solu	1- or 2-Nitropropane	NPM	42	0	D	111	А	Yes	1	.50-81	G				
Delayering PEB O NA NA Yes 1 45-160 6 iso-Propanolamine MPA 8 O E III A Yes 1 45-160 6 Bropanolamine MPA 8 O E III A Yes 1 45-160 6 Bropanolamine IPP A II A Yes 1 45-160 6 Byridine PRD 9 O C III A Yes 1 45-160 6 Sodium actriate solution (45% or less) SAU 5 O NA III A No N/A 407.3 6 Sodium hypochlorite solution (42% or less) SDD 12 O NA III A No N/A 407.3 6 Sodium suffide solution (425 greater than 15 ppm but less than 200 ppm) SSI 0 ¹² O NA III A No N/A 407.3, 55-100 6	1,3-Pentadiene	PDE	30	0	А	Ш	А	No	N/A	.50-70(a), .50-81	G				
Toyburth Top Top <thtop< th=""> <thtop<< td=""><td>Perchloroethylene</td><td>PER</td><td>36</td><td>0</td><td>NA</td><td>Ш</td><td>А</td><td>No</td><td>N/A</td><td>No</td><td>G</td></thtop<<></thtop<>	Perchloroethylene	PER	36	0	NA	Ш	А	No	N/A	No	G				
Instrume Intra C C C C Intra A Yes 1 Set IB, IC O Propanolamine (iso, n-) IPP 7 O A III A Yes 5 55-1(0) 6 Pyridine PRD 9 O C III A Yes 1 55-1(0) 6 Sodium catelate, Glycol, Water mixture (3% or more Sodium SAP 5 O NA III A No N/A 50-73, 55-1(0) 6 Sodium chlorate solution (45% or less) SDD 0.12 O NA III A No N/A 50-73, 55-1(0) 6 Sodium solution (20% or less) SDD 0.12 O NA III A No N/A 50-73, 55-1(0) 6 Sodium solifide, hydrosulfide solution (H2S greater than 15 ppm but less than 200 ppm) SSJ 0.12 O NA III A No N/A 50-73, 55-1(0) 6 5 Sodium suli	Polyethylene polyamines	PEB	7 2	0	Е	Ш	А	Yes	1	.55-1(e)	G				
Probabilitie (asr, inf) IPA For any and the second	iso-Propanolamine	MPA	8	0	Е	111	А	Yes	1	.55-1(c)	G				
Indeptynamine Int <	Propanolamine (iso-, n-)	PAX	8	0	Е		А	Yes	1	.56-1(b), (c)	G				
Type Type S O M No N/A 50-73, 56-10 6 Sodium atuminate solution (45% or less) SAU 5 O NA III A No N/A 50-73, 56-10 0 0 Sodium atuminate solution (45% or less) SDD 0.12 O NA III A No N/A 50-73, 56-10 0 0 Sodium solition (160% or less) SDD 0.12 O NA III A No N/A 50-73, 56-10 0 0 Sodium solitide, hydrosulfide solution (H2S greater than 15 ppm but less than 200 ppm) SSI 0.12 O NA III A No N/A 50-73, 56-10 0 0 Sodium sulfide, hydrosulfide solution (H2S greater than 15 ppm but less than 200 ppm) SSI 0.12 O NA III A No N/A 50-73, 56-10 0 0 1,1,2.2-Tetrachloroethane TEC 36 O NA III A No N/A 50-740, 50-8	Isopropylamine	IPP	7	0	А	Ш	А	Yes	5	.55-1(c)	G				
Hydroxide Bit C M N N N N N N N Sodium aluminate solution (45% or less) SAU 5 O NA III A No N/A 50-73. 56-1(a). (b). (c) G Sodium chlorate solution (20% or less) SHQ 5 O NA III A No N/A 50-73. 56-1(a). (b). (c) G Sodium sufficie, hydrosulfide solution (20% or less) SHQ 5 O NA III A No N/A 50-73. 56-1(a). (b) G Sodium sufficie, hydrosulfide solution (H2S greater than 15 ppm but less than 200 ppm) SSI 0 ^{1,2} O NA II A No N/A 50-73. 55-1(b) G Sodium sufficie, hydrosulfide solution (H2S greater than 200 ppm) SSJ 0 ^{1,2} O NA II A No N/A 50-73. 55-1(b) G Sodium sufficie, hydrosulfide solution (H2S greater than 200 ppm) SSJ 0 ^{1,2} O NA III A Yes 1 55-1(b) G G 1,1,2.2-Tetrachloroethane TCP 7	Pyridine	PRD	9	0	С		А	Yes	1	.55-1(e)	G				
Continuation automate solution (Vol or Insis) Since Color NA III A No N/A Solution (Vol or Insis) G Sodium charate solution (Vol or less) SDD 0 12 O NA III A No N/A 20-73 6 Sodium sulfide, hydrosulfide solution (H2S 15 ppm or less) SSH 0 12 O NA III A No N/A 20-73 .55-1(b) G Sodium sulfide, hydrosulfide solution (H2S greater than 15 ppm but less than 200 ppm) SSJ 0 12 O NA III A No N/A 50-73, 55-1(b) G Sodium sulfide, hydrosulfide solution (H2S greater than 200 ppm) SSJ 0 1-2 O NA III A No N/A 50-73(a), 50-81(a), (b) G Styrem emonomer STY 30 O D III A No N/A 50-73(a), 50-81(a), (b) G 1,1,2,2-Tetrachloroethane TTP 7 O E III A Yes 1		SAP	5	0		111	А	No	N/A	.50-73, .55-1(j)	G				
Sodium unified automic david in 257 of 164 min Init I	Sodium aluminate solution (45% or less)	SAU	5	0	NA	Ш	А	No	N/A	.50-73, .56-1(a), (b), (c)	G				
Sodium Hypothysic Solution (H2S 15 ppm or less) SNM 0 NM Sodium sulfide, hydrosulfide solution (H2S greater than 200 ppm) SSJ 0.12 O NA III A No N/A 50-73, 55-1(b) G Sodium sulfide, hydrosulfide solution (H2S greater than 200 ppm) SSJ 0.12 O NA III A No NA No NA No NA No Solution sulfide, hydrosulfide solution (H2S greater than 200 ppm) SSJ 0.12 O NA III A Yes 1	Sodium chlorate solution (50% or less)	SDD	0 1	² 0	NA	III	А	No	N/A	.50-73	G				
Continuit Sundary Sundary Substance Continuity Substance Cont	Sodium hypochlorite solution (20% or less)	SHQ	5	0	NA	111	А	No	N/A	.50-73, .56-1(a), (b)	G				
Social Sando 20 pm) SSJ 0 1/2 0 NA NA<	Sodium sulfide, hydrosulfide solution (H2S 15 ppm or less)	SSH	0 1	² 0	NA	Ш	А	Yes	1	.50-73, .55-1(b)	G				
Styrene monomer STY 30 O D III A Yes 2 .50-70(a). 50-81(a). (b) G 1,1,2,2-Tetrachloroethane TEC 36 O NA III A No N/A No G Tetraethylene pentamine TTP 7 O E III A Yes 1 .55-1(c) G Tetraethylene pentamine TTP 7 O E III A Yes 1 .50-70(b) G 1,2,4-Trichloroethane TCB 36 O E III A Yes 1 .50-73, .56-1(a) G 1,1,2-Trichloroethane TCC 36 O NA III A Yes 1 .50-73, .56-1(a) G 1,2,3-Trichloroethylene TCL 36 ² O NA III A Yes 3 .50-73, .56-1(a) G Triethylamine TEN 7 O E III A		SSI	0 1	. ² O	NA	111	A	No	N/A	.50-73, .55-1(b)	G				
1,1,2,2-Tetrachloroethane TEC 36 O NA III A No N/A No N/A G Tetraethylene pentamine TTP 7 O E III A Yes 1 55-1(c) G Tetraethylene pentamine TTP 7 O E III A Yes 1 55-1(c) G Tetraethylene pentamine TCB 36 O E III A Yes 1 50-70(b) G 1,2,4-Trichlorobenzene TCB 36 O E III A Yes 1 50-73, 56-1(a) G 1,1,2-Trichloroethane TCL 36 ² O NA III A Yes 1 No G 1,2,3-Trichloroptopane TCN 36 O E II A Yes 1 55-1(a) G Triethanolamine TEA 8 ² O E III A Yes 1 55-1(b) G Triphenylborane (10% or less), caustic soda solution TPB <td>Sodium sulfide, hydrosulfide solution (H2S greater than 200 ppm)</td> <td>SSJ</td> <td>0 1</td> <td>² 0</td> <td>NA</td> <td>Ш</td> <td>Α</td> <td>No</td> <td>N/A</td> <td>.50-73, .55-1(b)</td> <td>G</td>	Sodium sulfide, hydrosulfide solution (H2S greater than 200 ppm)	SSJ	0 1	² 0	NA	Ш	Α	No	N/A	.50-73, .55-1(b)	G				
Tetraethylene pentamine TTP 7 0 E III A Yes 1 55-1(c) 6 Tetraethylene pentamine TTP 7 0 E III A Yes 1 50-70(b) 6 Tetrahydrofuran THF 41 0 C III A Yes 1 50-70(b) 6 1,2,4-Trichlorobenzene TCB 36 O E III A Yes 1 50-70(b) 6 1,1,2-Trichlorobtane TCL 36 O NA III A Yes 1 50-73.56-1(a) 6 Trichlorobtylene TCL 36 O E III A Yes 1 50-73.56-1(a) 6 Triethanolamine TEA 8 ² O E III A Yes 3 50-73.56-1(a) 6 Triethylenetetramine TEN 7 O C II A Yes 3 55-1(b) 6 Triphenylborane (10% or less), caustic soda solution TPB 5	Styrene monomer	STY	30	0	D	Ш	А	Yes	2	.50-70(a), .50-81(a), (b)	G				
Tetrahydrofuran TH TH T C L III A Yes 1 50-70(b) G 1,2,4-Trichlorobenzene TCB 36 O E III A Yes 1 50-70(b) G 1,2,4-Trichlorobenzene TCB 36 O E III A Yes 1 No G 1,1,2-Trichloroethylene TCL 36 ² O NA III A Yes 1 No G 1,2,3-Trichloroethylene TCL 36 ² O NA III A Yes 1 No G 1,2,3-Trichloroptopane TCN 36 O E II A Yes 1 55-1(a) G Triethanolamine TEA 8 ² O E III A Yes 1 55-1(b) G Triethylamine TET 7 ² O E III A Yes 1 55-1(b) G Triethylamine TET 7 ² O E	1,1,2,2-Tetrachloroethane	TEC	36	0	NA	Ш	А	No	N/A	No	G				
Trian Trian <th< td=""><td>Tetraethylene pentamine</td><td>TTP</td><td>7</td><td>0</td><td>Е</td><td> </td><td>А</td><td>Yes</td><td>1</td><td>.55-1(c)</td><td>G</td></th<>	Tetraethylene pentamine	TTP	7	0	Е		А	Yes	1	.55-1(c)	G				
1,2,4+ Includioberization TOB 3.0 O L III A Tess I 1,1,2-Trichloroethane TCM 36 O NA III A Yes 1 .50-73, .56-1(a) G Trichloroethylene TCL 36 ² O NA III A Yes 1 No G 1,2,3-Trichloropropane TCN 36 O E II A Yes 3 .50-73, .56-1(a) G Triethanolamine TEA 8 ² O E III A Yes 1 .55-1(b) G Triethylamine TEN 7 O C II A Yes 1 .55-1(b) G Triphenylborane (10% or less), caustic soda solution TPB 5 O NA III A No N/A .56-1(a), (b), (c) G Trisodium phosphate solution TSP 5 O NA III A No N/A .50-73, .56-1(a), (c), (g) G Urea, Ammonium nitrate solution (containing more than 2% NH3) <td>Tetrahydrofuran</td> <td>THF</td> <td>41</td> <td>0</td> <td>С</td> <td>III</td> <td>Α</td> <td>Yes</td> <td>1</td> <td>.50-70(b)</td> <td>G</td>	Tetrahydrofuran	THF	41	0	С	III	Α	Yes	1	.50-70(b)	G				
TrichlorodutationTotalOCONATIIIAYes1NoGTrichloroptypaneTCN36OEIIAYes3.50-73, .56-1(a)GTriethanolamineTEA82OEIIIAYes1.55-1(b)GTriethylamineTEN7OCIIAYes3.55-1(b)GTriethylenetetramineTET72OEIIIAYes1.55-1(b)GTriphenylborane (10% or less), caustic soda solutionTPB5ONAIIIANoN/A.56-1(a), (b), (c)GTrisodium phosphate solutionTSP5ONAIIIANoN/A.50-73, .56-1(a), (c).GUrea, Ammonium nitrate solution (containing more than 2% NH3)UAS6ONAIIIANoN/A.50-73, .56-1(a), (c). (g)GVanillin black liquor (free alkali content, 3% or more).VBL5ONAIIIANoN/A.50-73, .56-1(a), (c). (g)GVinyl acetateVAM13OCIIIAYes2.50-70(a), .50-81(a), (b)GVinyl neodecanoateVND13OEIIIANoN/A.50-70(a), .50-81(a), (b)G	1,2,4-Trichlorobenzene	TCB	36	0	Е	III	Α	Yes	1	No	G				
Interforded rytence Fock Fock First First First First Fock First Fock	1,1,2-Trichloroethane	TCM	36	0	NA	III	Α	Yes	1	.50-73, .56-1(a)	G				
TriethanolamineTEA8 2OEIIIAYes1.55-1(b)GTriethylamineTEN7OCIIAYes3.55-1(e)GTriethylenetetramineTET72OEIIIAYes1.55-1(b)GTriphenylborane (10% or less), caustic soda solutionTPB5ONAIIIANoN/A.56-1(a), (b), (c)GTrisodium phosphate solutionTSP5ONAIIIANoN/A.50-73, .56-1(a), (c).GUrea, Ammonium nitrate solution (containing more than 2% NH3)UAS6ONAIIIANoN/A.50-73, .56-1(a), (c).GVanillin black liquor (free alkali content, 3% or more).VBL5ONAIIIANoN/A.50-73, .56-1(a), (b), (c)GVinyl acetateVAM13OCIIIAYes2.50-70(a), .50-81(a), (b)GVinyl neodecanoateVND13OEIIIANoN/A.50-70(a), .50-81(a), (b)G	Trichloroethylene	TCL	36 ²	0	NA	III	Α	Yes	1	No	G				
TriethalbalanineTEN70CIIAYes3.55-1(e)GTriethylanineTEN70CIIAYes3.55-1(e)GTriethylenetetramineTET7.20EIIIAYes1.55-1(b)GTriphenylborane (10% or less), caustic soda solutionTPB50NAIIIANoN/A.56-1(a), (b), (c)GTrisodium phosphate solutionTSP50NAIIIANoN/A.50-73, .56-1(a), (c).GUrea, Ammonium nitrate solution (containing more than 2% NH3)UAS60NAIIIANoN/A.50-73, .56-1(a), (c).GVanillin black liquor (free alkali content, 3% or more).VBL50NAIIIANoN/A.50-70, .50-81(a), (b)GVinyl acetateVAM130CIIIAYes2.50-70(a), .50-81(a), (b)GVinyl neodecanoateVND130EIIIANoN/A.50-70(a), .50-81(a), (b)G	1,2,3-Trichloropropane	TCN	36	0	Е	Ш	А	Yes	3	.50-73, .56-1(a)	G				
TriedigitationTET70001A10000101TriedylenetetramineTET70EIIIAYes1.55-1(b)6Triphenylborane (10% or less), caustic soda solutionTPB50NAIIIANoN/A.56-1(a), (b), (c)6Trisodium phosphate solutionTSP50NAIIIANoN/A.50-73, .56-1(a), (c).6Urea, Ammonium nitrate solution (containing more than 2% NH3)UAS60NAIIIANoN/A.50-73, .56-1(a), (c).6Vanillin black liquor (free alkali content, 3% or more).VBL50NAIIIANoN/A.50-73, .56-1(a), (c), (g)6Vinyl acetateVAM130CIIIAYes2.50-70(a), .50-81(a), (b)6Vinyl neodecanoateVND130EIIIANoN/A.50-70(a), .50-81(a), (b)6	Triethanolamine	TEA	8 ²	0	Е	Ш	А	Yes	1	.55-1(b)	G				
Triphenylborane (10% or less), caustic soda solutionTPB5ONAIIIANoN/A.56-1(a), (b), (c)GTrisodium phosphate solutionTSP5ONAIIIANoN/A.56-1(a), (b), (c)GUrea, Ammonium nitrate solution (containing more than 2% NH3)UAS6ONAIIIANoN/A.56-1(a), (b), (c)GVanillin black liquor (free alkali content, 3% or more).VBL5ONAIIIANoN/A.50-73, .56-1(a), (c), (g)GVinyl acetateVAM13OCIIIAYes2.50-70(a), .50-81(a), (b)GVinyl neodecanoateVND13OEIIIANoN/A.50-70(a), .50-81(a), (b)G	Triethylamine	TEN	7	0	С	Ш	А	Yes	3	.55-1(e)	G				
Trippleryborate (10 / 0 of less), cadate solid solid of 1 IT B C IT C IT	Triethylenetetramine	TET	7 ²	0	Е	111	А	Yes	1	.55-1(b)	G				
Trisodium phosphate solution TSP 5 O NA III A No N/A .50-73, .56-1(a), (c). G Urea, Ammonium nitrate solution (containing more than 2% NH3) UAS 6 O NA III A No N/A .50-73, .56-1(a), (c). G Vanillin black liquor (free alkali content, 3% or more). VBL 5 O NA III A No N/A .50-70, .56-1(a), (c). (g) G Vinyl acetate VAM 13 O C III A Yes 2 .50-70(a), .50-81(a), (b) G Vinyl neodecanoate VND 13 O E III A No N/A .50-70(a), .50-81(a), (b) G	Triphenylborane (10% or less), caustic soda solution	TPB	5	0	NA	111	А	No	N/A	.56-1(a), (b), (c)	G				
Urea, Ammonium nitrate solution (containing more than 2% NH3) UAS 6 O NA III A No N/A .56-1(b) G Vanillin black liquor (free alkali content, 3% or more). VBL 5 O NA III A No N/A .50-70(a)50-81(a). (b). (g) G Vinyl acetate VAM 13 O C III A Yes 2 .50-70(a)50-81(a). (b) G Vinyl neodecanoate VND 13 O E III A No N/A .50-70(a)50-81(a). (b) G		TSP	5	0	NA	Ш	А	No	N/A	.50-73, .56-1(a), (c).	G				
Vanillin black liquor (free alkali content, 3% or more). VBL 5 O NA III A No N/A .50-7356-1(a), (c), (g) G Vinyl acetate VAM 13 O C III A Yes 2 .50-70(a), .50-81(a), (b) G Vinyl neodecanoate VND 13 O E III A No N/A .50-70(a), .50-81(a), (b) G										.56-1(b)	G				
Vinyl acetate VAM 13 O C III A Yes 2 .50-70(a), .50-81(a), (b) G Vinyl neodecanoate VND 13 O E III A No N/A .50-70(a), .50-81(a), (b) G										.50-73, .56-1(a), (c), (g)	G				
Vinyl neodecanoate VND 13 O E III A No N/A .50-70(a), .50-81(a), (b) G										.50-70(a), .50-81(a), (b)	G				
										.50-70(a), .50-81(a), (b)	G				
	Vinyltoluene	VNT	13	0	D	111	Α	Yes	2	.50-70(a), .50-81, .56-1(a), (b), (c), (G				



Certificate of Inspection Cargo Authority Attachment

Vessel Name: CBC 1708 Official #: 1296767

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Shipyard: Southwest Hull #: 9811

Official #. 1296767			Page 4	019					Hull #: 9811				
Cargo Identification							Conditions of Carriage						
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	App'd	Recovery VCS Category	Special Requirements in 46 CFR 151 General and Mat'ls of Construction	Insp. Perioc			
Subchapter D Cargoes Authorized for Vapor Cont	trol												
Acetone	ACT	18 ²	2 D	С		А	Yes	1					
Acetophenone	ACP	18	D	Е		А	Yes	1					
Alcohol (C12-C16) poly(20+) ethoxylates	APW	20	D	Е		А	Yes	1					
Alcohol (C6-C17) (secondary) poly(3-6) ethoxylates	AEA	20	D	Е		А	Yes	1					
Alcohol (C6-C17) (secondary) poly(7-12) ethoxylates	AEB	20	D	Е		А	Yes	1					
Amyl acetate (all isomers)	AEC	34	D	D		А	Yes	1					
Amyl alcohol (iso-, n-, sec-, primary)	AAI	20	D	D		А	Yes	1					
Benzyl acetate	BZE	34	D	Е		А	Yes	1					
Benzyl alcohol	BAL	21	D	Е		А	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)	BFY	20	D	Е		A	Yes	1					
Butyl acetate (all isomers)	BAX	34	D	D		А	Yes	1					
Isobutyl alcohol	IAL	20 ²	2 D	D		А	Yes	1					
Butyl alcohol (n-)	BAN	20 ²	2 D	D		А	Yes	1					
Butyl alcohol (sec-)	BAS	20 ²	2 D	С		А	Yes	1					
Butyl alcohol (tert-)	BAT	20 ²	2 D	С		А	Yes	1					
Butyl benzyl phthalate	BPH	34	D	Е		А	Yes	1					
Butyl toluene	BUE	32	D	D		А	Yes	1					
Caprolactam solutions	CLS	22	D	Е		А	Yes	1					
Cycloheptane	CYE	31	D	С		А	Yes	1					
Cyclohexane	СНХ	31	D	С		А	Yes	1					
Cyclohexanol	CHN	20	D	Е		А	Yes	1					
Cyclohexyl acetate	CYC	34	D	D		А	Yes	1					
1,3-Cyclopentadiene dimer (molten)	CPD	30	D	D/E		А	Yes	2					
Cyclopentane	CYP	31	D	в		А	Yes	1					
p-Cymene	CMP	32	D	D		А	Yes	1					
iso-Decaldehyde	IDA	19	D	Е		А	Yes	1					
n-Decaldehyde	DAL	19	D	Е		А	Yes	1					
Decanoic acid	DCO	4	D	#		А	Yes	1					
Decene	DCE	30	D	D		А	Yes	1					
Decyl alcohol (all isomers)	DAX	20 ²	2 D	Е		А	Yes	1					
n-Decylbenzene, see Alkyl(C9+)benzenes	DBZ	32	D	Е		А	Yes	1					
Diacetone alcohol	DAA	20 ²		D		А	Yes	1					
Dibutyl phthalate	DPA	34	D	Е		А	Yes	1					
Diethylbenzene	DEB	32	D	D		А	Yes	1					
Diethylene glycol	DEG			Е		А	Yes						
Diisobutylene	DBL	30	D	С		А	Yes	1					
Diisobutyl ketone	DIK	18	D	D		А	Yes						
Diisopropylbenzene (all isomers)	DIX	32	D	Е		А	Yes	1					



Certificate of Inspection Cargo Authority Attachment

Vessel Name: CBC 1708 Official #: 1296767

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Shipyard: Southwest Hull #: 9811

Name Chemi Chemi (Name Constitution (Name State (Name Figure (Name Wave (Name Figure (Name State (Name Figure (Name State (Name State (Name <th colspan="7">Cargo Identification</th> <th colspan="6">Conditions of Carriage</th>	Cargo Identification							Conditions of Carriage					
Didoký prihradate DOP 34 D E A Yes 1 Dipennyi DI S2 D DE A Yes 1 Diphenyi Dipenyi DIC A Yes 1 Diphenyi dher DIC A Yes 1 Diproylen gloci DFG 41 D E A Yes 1 Distilatés: Flack DFE A Yes 1 Distilatés: Distilatés: Status DFE A Yes 1 Distilatés: Status DFF 33 D E A Yes 1 Distilatés: Status DE A Yes 1 Distilatés: 1 Distilatés: Status DE A Yes 1 Ethy 1 Distilatés: Status D D A Yes 1 Ethy 1 Ethy 1 Ethy 1	Name		Group		Grade			App'd	VCS	151 General and Mat'ls of			
Dipentine DPN 30 D D A Yes 1 Dipheryi DIL 32 D D/E A Yes 1 Dipheryi DD0 33 D E A Yes 1 Dipheryi differ DDFE 41 D (E) A Yes 1 Diproxylopine glycol DDFE 41 D (E) A Yes 1 Distillates: Flacted foot stocks DFF 33 D E A Yes 1 Dodecybername, see Akyl(CP)-benzenes DDB 2 E A Yes 1 2-Ethoxyethyl acetate ETA 34 D C A Yes 1 2-Ethoxyethyl acetate ETA 34 D E A Yes 1 Ethyl acetaacetate EAA 34 D E A Yes 1 Ethyl acetaacetate EAA 34 D C	Dimethyl phthalate	DTL	34	D	Е		А	Yes	1				
Diphenyl DIL 32 D D/E A Yes 1 Diphenyl biher wiktures DDC 33 D E A Yes 1 Diphenyl ether DPE 41 D E A Yes 1 Distillates: Flashed feed stocks DPF 33 D E A Yes 1 Distillates: Flashed feed stocks DPF 33 D E A Yes 1 Distillates: Straight run DSR 33 D E A Yes 1 Dodecore (all somens) DOZ 30 D A Yes 1 Dodecore (all somens) DOZ 32 D E A Yes 1 Didecore (all somens) DOZ 32 D E A Yes 1 Ethoy totyco (crude) ETG 40 D E A Yes 1 Ethoy taloctactale EAA 34	Dioctyl phthalate	DOP	34	D	Е		А	Yes	1				
Diphenyl, Diphenyl ether mixtures DDO 33 D E A Yes 1 Diphenyl ether DPE 41 D (E) A Yes 1 Diphenyl ether DPE 41 D (E) A Yes 1 Distillates: Flashed feed stacks DFF 33 D E A Yes 1 Distillates: Straight run DSR 33 D E A Yes 1 Oddecyberzens and Alkyl(C0+/berzens DDB 32 D E A Yes 1 2-Etmoxytethyl acetate EEA 34 D D A Yes 1 Ethyl acetate ETA 44 D C A Yes 1 Ethyl acetaceetate EAA 34 D C A Yes 1 Ethyl acetaceetate EAA 34 D C A Yes 1 Ethyl acetaceetate EAA	Dipentene	DPN	30	D	D		А	Yes	1				
Diptenyl ather DPE 41 D (E) A Yes 1 Diproplane glycal DPG 40 D E A Yes 1 Distillates: Flashed feed stocks DFF 33 D E A Yes 1 Dodecence (all isomers) DOZ 30 D D A Yes 1 Edmosythigkoal (C9-bjoazanes DDB 32 D D A Yes 1 Ethosythigkoal (crude) ETG 40 D C A Yes 1 Ethyd actate EEA 34 D C A Yes 1 Ethyd actate EAA 34 D C A Yes 1 Ethyd actate EAA 34 D C A Yes 1 Ethyd actate EAA 34 D C A Yes 1 Ethyd actate EAA 34 D <	Diphenyl	DIL	32	D	D/E		А	Yes	1				
Dipropylene glycol DPG 40 D E A Yes 1 Distillates: Flashed feed stocks DFF 33 D E A Yes 1 Distillates: Straight run DSR 33 D E A Yes 1 Dodecent (all somers) DOZ 30 D D A Yes 1 Dodecytherzene, see Alkyl(C9+)benzenes DDB 32 D E A Yes 1 Ethoya trigycol (crude) ETG 40 D C A Yes 1 Ethya doctate EA 34 D C A Yes 1 Ethya doctate EAA 34 D C A Yes 1 Ethya doctate EAA 34 D C A Yes 1 Ethya doctate EAA 34 D C A Yes 1 Ethya doctate EAA Yes	Diphenyl, Diphenyl ether mixtures	DDO	33	D	Е		А	Yes	1				
Defiliate: Peaked feed stocks DFF 33 D E A Yes 1 Distillate:: Straight run DSR 33 D E A Yes 1 Dodecene (all isomers) DOZ 30 D D A Yes 1 2-Ethoxyethyl acetate EEA 34 D D A Yes 1 2-Ethoxyethyl acetate ETG 40 D E A Yes 1 Ethyl acetase ETA 34 D C A Yes 1 Ethyl acetase ETA 34 D E A Yes 1 Ethyl acetasectate EAA 34 D E A Yes 1 Ethyl acetasectate ETA 34 D C A Yes 1 Ethyl acetasectate ETA 34 D D A Yes 1 Ethyl berbouly othetracetate	Diphenyl ether	DPE	41	D	{E}		А	Yes	1				
Distiliates: Straight run DSR 33 D E A Yes 1 Dodecone (all isomers) DOZ 30 D D A Yes 1 Dadecylbenzene, see Alkyl(C9+)benzenes DDB 32 D E A Yes 1 Ethoy triglycal (crude) ETG 40 D E A Yes 1 Ethy acetate EEA 34 D C A Yes 1 Ethy acetate ETA 34 D E A Yes 1 Ethy acetate ETA 34 D E A Yes 1 Ethy acetate ETB 32 D C A Yes 1 Ethy acetate ETB 32 D C A Yes 1 Ethy devidence ETF 20 D D A Yes 1 Ethy devidence EGE 21 D <td< td=""><td>Dipropylene glycol</td><td>DPG</td><td>40</td><td>D</td><td>Е</td><td></td><td>А</td><td>Yes</td><td>1</td><td></td><td></td></td<>	Dipropylene glycol	DPG	40	D	Е		А	Yes	1				
Dodecene (all isomers) DOZ 30 D A Yes 1 Dodecybenzene, see Alkyl(CB+)benzenes DDB 32 D E A Yes 1 2-Ehoxytethyl acetate EEA 34 D D A Yes 1 Ethyl acetate ETG 40 D E A Yes 1 Ethyl acetate ETA 34 D C A Yes 1 Ethyl acetate ETA 34 D C A Yes 1 Ethyl acetaccatate ETA 34 D E A Yes 1 Ethyl acetoaccatate ETA 24 D C A Yes 1 Ethyl acetoaccatate ETB 20 D C A Yes 1 Ethyl acetoaccatate EBT 20 D D A Yes 1 Ethyl acetoaccatate EBT 20 D A	Distillates: Flashed feed stocks	DFF	33	D	Е		А	Yes	1				
Dodecybenzene, see Alkyl(C9+benzenes DDB 32 D E A Yes 1 2-Ethoxy trigycol (crude) ETG 40 D E A Yes 1 Ethoxy trigycol (crude) ETG 40 D E A Yes 1 Ethyl acetaace EAA 34 D E A Yes 1 Ethyl acetaacectate EAA 34 D E A Yes 1 Ethyl acetaacectate EAA 34 D C A Yes 1 Ethyl acetaacectate EAA 34 D C A Yes 1 Ethyl butand EAT 20 D D A Yes 1 Ethyl butyrate EBE 41 D C A Yes 1 Ethyl butyrate EBE 434 D D A Yes 1 Ethyl butyrate EGY 34 D <td>Distillates: Straight run</td> <td>DSR</td> <td>33</td> <td>D</td> <td>Е</td> <td></td> <td>А</td> <td>Yes</td> <td>1</td> <td></td> <td></td>	Distillates: Straight run	DSR	33	D	Е		А	Yes	1				
2-Ethoxytriglycol (grude) EEA 34 D D A Yes 1 Ethoxytriglycol (grude) ETG 40 D E A Yes 1 Ethyl acetate ETA 34 D C A Yes 1 Ethyl acetate EAA 34 D C A Yes 1 Ethyl acetate EAA 34 D C A Yes 1 Ethyl acetate EAA 20 ° D C A Yes 1 Ethyl acetate EBA 32 ° D C A Yes 1 Ethyl acetate EBB 41 D C A Yes 1 Ethyl acetate EBR 34 D D A Yes 1 Ethyl acetate EBR 44 D C A Yes 1 Ethyl acetate EBR 44 D E A	Dodecene (all isomers)	DOZ	30	D	D		А	Yes	1				
Ethoxy triglycol (rude) ETG 40 D E A Yes 1 Ethyl acetate ETA 34 D C A Yes 1 Ethyl acetate EAA 34 D E A Yes 1 Ethyl acetate EAA 34 D C A Yes 1 Ethyl acetate EAA 24 D C A Yes 1 Ethyl busch EBE 20 D C A Yes 1 Ethyl busch EBE 41 D C A Yes 1 Ethyl torste EBR 34 D D A Yes 1 Ethylene glycol busch EGL 20 ² D E A Yes 1 Ethylene glycol busch ether EPE 40 D E A Yes 1 Ethylene glycol phenyl ether EPE 40 D E	Dodecylbenzene, see Alkyl(C9+)benzenes	DDB	32	D	Е		А	Yes	1				
Ethyl acetaleETA34DCAYes1Ethyl acetaleEAA34DEAYes1Ethyl acetaleEAA34DEAYes1Ethyl acetaleEAA20 2DCAYes1Ethyl bacholEBT32DCAYes1Ethyl butnolEBT20DDAYes1Ethyl tert-butyl etherEBE41DCAYes1Ethyl tyrateEBR34DDAYes1Ethyl cyclohexaneECY31DDAYes1Ethylene glycolEGL20 2DEAYes1Ethylene glycol butyl ether acetateEMA34DEAYes1Ethylene glycol acetateEGY34DEAYes1Ethylene glycol phenyl etherEPE40DEAYes1Ethylene glycol phenyl etherEPF34DCAYes1Ethylene glycol butyl etherETF32DDAYes1Ethylene glycol butyl etherEPF40DEAYes1Ethylene glycol butyl etherEFP34DCAYes1Ethylene glycol butyl etherEFP34DCAYes1<	2-Ethoxyethyl acetate	EEA	34	D	D		А	Yes	1				
Ethyl acetoacetateEAA34DEAYes1Ethyl alcoholEAL20 2DCAYes1EthylbenzeneETB32DCAYes1Ethyl betraneEBT20DDAYes1Ethyl betrabutyl etherEBE41DCAYes1Ethyl bytyateEBR34DDAYes1Ethyl cyclohexaneECY31DDAYes1Ethylene glycolEGL20 2DEAYes1Ethylene glycol butyl ether acetateEMA34DEAYes1Ethylene glycol diacetateEGY34DEAYes1Ethylene glycol diacetateEGY34DEAYes1Ethylene glycol diacetateEFF40DAYes1Ethyl-bexnolEHX20DEAYes1Ethyl-bexnolEHX20DEAYes1Ethyl propionateEFF34DCAYes1Ethyl bekeneETE32DDAYes1Ethyl bekeneEFF34DCAYes1Ethyl bekeneEFF34DCAYes1Ethyl bekeneEFF34D <td< td=""><td>Ethoxy triglycol (crude)</td><td>ETG</td><td>40</td><td>D</td><td>Е</td><td></td><td>А</td><td>Yes</td><td>1</td><td></td><td></td></td<>	Ethoxy triglycol (crude)	ETG	40	D	Е		А	Yes	1				
Ethyl alcoholEAL20 2DCAYes1EthylbenzeneETB32DCAYes1Ethyl butanolEBT20DDDAYes1Ethyl terh-butyl etherEBE41DCAYes1Ethyl butyrateEBR34DDAYes1Ethyl colobexaneECY31DDAYes1Ethylene glycolEGL20 2DEAYes1Ethylene glycol dacetateEWA34DEAYes1Ethylene glycol dacetateECY34DEAYes1Ethylene glycol dacetateEEP34DDAYes1Ethylene glycol dacetateEEP34DDAYes1Ethylene glycol dacetateEEP34DDAYes1Ethylene glycol dacetateEEP34DDAYes1Ethylene glycol dacetateEEP34DDAYes1Ethylene glycol dacetateEEP34DDAYes1Ethylene glycol alcotataEFR34DCAYes1Ethylene glycol alcotataEFR34DCAYes1Ethylene glycol alcotataFAM10DEAYes<	Ethyl acetate	ETA	34	D	С		А	Yes	1				
EthylenzeneETB32DCAYes1Ethyl torloulyl etherEBF20DDAYes1Ethyl torloulyl etherEBE41DCAYes1Ethyl torloulyl etherEBR34DDAYes1Ethyl cyclohexaneECY31DDAYes1Ethyl cyclohexaneECY31DDAYes1Ethylene glycol lacetateEGL20 2DEAYes1Ethylene glycol lacetateEGY34DEAYes1Ethylene glycol lacetateEGY34DEAYes1Ethylene glycol lacetateEGP34DEAYes1Ethylene glycol phenyl etherEPE40DEAYes1Ethylene glycol jonateEFP34DDAYes1Ethylene glycol diacetateEGY34DCAYes1Ethylene glycol diacetateEGY34DCAYes1Ethylene glycol diacetateEFP34DDAYes1Ethylene glycol diacetateEFP34DDAYes1Ethylene glycol diacetateEFP34DDAYes1Ethylene glycol diacetateERF33DA	Ethyl acetoacetate	EAA	34	D	Е		А	Yes	1				
Ethyl butanolEBT20DAYes1Ethyl tert-butyl etherEBE41DCAYes1Ethyl butyrateEBR34DDAYes1Ethyl cyclohexaneECY31DDAYes1Ethyl cyclohexaneECY31DDAYes1Ethyle glycol butyl ether acetateEGA20 2DEAYes1Ethylen glycol butyl ether acetateEGY34DEAYes1Ethylen glycol phenyl etherEPE40DEAYes1Ethylen glycol phenyl etherEPP34DDAYes1Ethylen glycol phenyl etherEPP34DDAYes1Ethylen glycol phenyl etherEPP34DDAYes1Ethylen glycol phenyl etherEPP34DDAYes1Ethylen glycol phenyl etherEPR34DCAYes1Ethylen glycol phenyl etherEPR34DCAYes1Ethylen glycol phenyl etherEPR34DCAYes1Ethylen glycol phenyl etherEPR34DCAYes1Ethylen glycol phenyl etherFAL20 2DEAYes1Ethylen glycol phenyl ether <td< td=""><td>Ethyl alcohol</td><td>EAL</td><td>20 2</td><td>2 D</td><td>С</td><td></td><td>А</td><td>Yes</td><td>1</td><td></td><td></td></td<>	Ethyl alcohol	EAL	20 2	2 D	С		А	Yes	1				
Ethyl tert-butyl etherEBE41DCAYes1Ethyl butyrateEBR34DDAYes1Ethyl cyclohexaneECY31DDAYes1Ethylene glycolEGL20 2DEAYes1Ethylene glycol butyl ether acetateEMA34DEAYes1Ethylene glycol diacetateEGY34DEAYes1Ethylene glycol phenyl etherEPE40DEAYes1Ethylene glycol phenyl etherEPP34DDAYes1Ethylene glycol phenyl etherEPR34DDAYes1Ethyl s-aethoxypropionateEPR34DDAYes1Ethyl propionateEPR34DCAYes1Ethyl solueneETE32DDAYes1Ethyl alcoholFAL20 2DEAYes1Furfuryl alcoholFAL20 2DEAYes1Gasoline blending stocks: AlkylatesGAK33DA/CAYes1Gasolines: Automotive (containing not over 4.23 grams lead per gallon) GAV33DCAYes1Gasolines: Aviation (containing not over 4.23 grams lead per gallon) GAV33DCAYes1 </td <td>Ethylbenzene</td> <td>ETB</td> <td>32</td> <td>D</td> <td>С</td> <td></td> <td>А</td> <td>Yes</td> <td>1</td> <td></td> <td></td>	Ethylbenzene	ETB	32	D	С		А	Yes	1				
Ethyl butyrateEBR34DDAYes1Ethyl cyclohexaneECY31DDAYes1Ethyl cyclohexaneEGL20 2DEAYes1Ethylene glycoledlEGL20 2DEAYes1Ethylene glycol diacetateEMA34DEAYes1Ethylene glycol diacetateEGY34DEAYes1Ethylene glycol phenyl etherEPE40DEAYes1Ethyl-3-ethoxypropionateEEP34DDAYes12-EthylhexanolEHX20DEAYes1Ethyl loueneETE32DDAYes1FormamideFAM10DEAYes1Furfuryl alcoholFAL20 2DEAYes1Gasoline blending stocks: AlkylatesGAK33DA/CAYes1Gasoline: Automotive (containing not over 4.86 grams of lead per gallon)GAV33DCAYes1Gasolines: Aviation (containing not over 4.86 grams of lead per gallon)GAV33DA/CAYes1Gasolines: Aviation (containing not over 4.86 grams of lead per gallon)GAV33DA/CAYes1Gasolines: Aviation (containing not over 4.86 grams o	Ethyl butanol	EBT	20	D	D		А	Yes	1				
Ethyl cyclohexaneECY31DDAYes1Ethylene glycolEGL202DEAYes1Ethylene glycol butyl ether acetateEMA34DEAYes1Ethylene glycol diacetateEGY34DEAYes1Ethylene glycol phenyl etherEPE40DEAYes1Ethyl-3-ethoxypropionateEEP34DDAYes12-EthylhexanolEHX20DEAYes1Ethyl toueneETE32DDAYes1Ethyl toueneETE32DDAYes1FormanideFAM10DEAYes1Furfuryl alcoholFAL20 ² DEAYes1Gasoline blending stocks: AlkylatesGAK33DA/CAYes1Gasolines: Automotive (containing not over 4.86 grams of lead per gallon)GAV33DCAYes1Gasolines: Casinghead (natural)GCS33DA/CAYes1Gasolines: Straight runGSR33DA/CAYes1Gasolines: Straight runGSR202DEAYes1GiverineGCR202DEAYes1	Ethyl tert-butyl ether	EBE	41	D	С		А	Yes	1				
Ethylene glycolEGL20 2DEAYes1Ethylene glycol butyl ether acetateEMA34DEAYes1Ethylene glycol diacetateEGY34DEAYes1Ethylene glycol phenyl etherEPE40DEAYes1Ethylene glycol phenyl etherEPE40DEAYes12-EthylhexanolEHX20DEAYes12-EthylhexanolEHX20DEAYes1Ethyl ropionateEPR34DCAYes1Ethyl tolueneETE32DDAYes1FormamideFAM10DEAYes1Furfuryl alcoholFAL20 2DEAYes1Gasoline blending stocks: AlkylatesGAK33DA/CAYes1Gasolines: Automotive (containing not over 4.23 grams lead per gallon) GAT33DCAYes1Gasolines: Casinghead (natural)GCS33DA/CAYes1Gasolines: PolymerGPL33DA/CAYes1Gasolines: Straight runGSR33DA/CAYes1Gasolines: Straight runGCR20 2DEAYes1Gasolines: Straight run <td< td=""><td>Ethyl butyrate</td><td>EBR</td><td>34</td><td>D</td><td>D</td><td></td><td>А</td><td>Yes</td><td>1</td><td></td><td></td></td<>	Ethyl butyrate	EBR	34	D	D		А	Yes	1				
Ethylene glycol butyl ether acetateEMA34DEAYes1Ethylene glycol diacetateEGY34DEAYes1Ethylene glycol phenyl etherEPE40DEAYes1Ethyl-3-ethoxypropionateEEP34DDAYes12-EthylhexanolEHX20DEAYes1Ethyl propionateEPR34DCAYes1Ethyl tolueneETE32DDAYes1FormamideFAM10DEAYes1Furfuryl alcoholFAL20 2DEAYes1Gasoline blending stocks: AlkylatesGAK33DA/CAYes1Gasolines: Automotive (containing not over 4.23 grams lead per gallon) GAT33DCAYes1Gasolines: Casinghead (natural)GCS33DA/CAYes1Gasolines: Straight runGSR33DA/CAYes1Gasolines: Straight runGCR20 2DEAYes1GycerineGCR20 2DAYes1AGasolines: Straight runGSR33DA/CAYes1Gasolines: Straight runGCR20 2DEAYes1Gasolines: Straight run </td <td>Ethyl cyclohexane</td> <td>ECY</td> <td>31</td> <td>D</td> <td>D</td> <td></td> <td>А</td> <td>Yes</td> <td>1</td> <td></td> <td></td>	Ethyl cyclohexane	ECY	31	D	D		А	Yes	1				
Ethylene glycol diacetateEGY34DEAYes1Ethylene glycol phenyl etherEPE40DEAYes1Ethyl-3-ethoxypropionateEEP34DDAYes12-EthylhexanolEHX20DEAYes12-EthylhexanolEHX20DEAYes1Ethyl propionateEPR34DCAYes1Ethyl propionateEPR34DCAYes1Ethyl lolueneETE32DDAYes1FormamideFAM10DEAYes1Furfuryl alcoholFAL20 2DEAYes1Gasoline blending stocks: AlkylatesGAK33DA/CAYes1Gasolines: Automotive (containing not over 4.23 grams lead per gallon) GAT33DCAYes1Gasolines: Casinghead (natural)GCS33DA/CAYes1Gasolines: PolymerGPL33DA/CAYes1Gasolines: Straight runGSR33DA/CAYes1GycerineGCR20 2DEAYes1	Ethylene glycol	EGL	20 2	2 D	Е		А	Yes	1				
Ethylene glycol phenyl etherEPE40DEAYes1Ethyl-3-ethoxypropionateEEP34DDAYes12-EthylhexanolEHX20DEAYes1Ethyl propionateEPR34DCAYes1Ethyl propionateEPR34DCAYes1Ethyl tolueneETE32DDAYes1FormamideFAM10DEAYes1Furfuryl alcoholFAL20 2DEAYes1Gasoline blending stocks: AlkylatesGAK33DA/CAYes1Gasolines: Automotive (containing not over 4.23 grams lead per gallon) GAT33DCAYes1Gasolines: Casinghead (natural)GCS33DA/CAYes1Gasolines: PolymerGPL33DA/CAYes1Gasolines: Straight runGSR33DA/CAYes1GycerineGCR20 2DEAYes1	Ethylene glycol butyl ether acetate	EMA	34	D	Е		А	Yes	1				
Ethyl-3-ethoxypropionateEEP34DDAYes12-EthylhexanolEHX20DEAYes12-EthylpropionateEPR34DCAYes1Ethyl propionateEPR34DCAYes1Ethyl tolueneETE32DDAYes1FormamideFAM10DEAYes1Furfuryl alcoholFAL20 2DEAYes1Gasoline blending stocks: AlkylatesGAK33DA/CAYes1Gasolines: Automotive (containing not over 4.23 grams lead per gallon) GAT33DCAYes1Gasolines: Casinghead (natural)GCS33DA/CAYes1Gasolines: PolymerGPL33DA/CAYes1Gasolines: Straight runGSR33DA/CAYes1GlycerineGCR20 2DEAYes1	Ethylene glycol diacetate	EGY	34	D	Е		А	Yes	1				
2-EthylhexanolEHX20DEAYes12thyl propionateEPR34DCAYes1Ethyl propionateETE32DDAYes1Ethyl tolueneETE32DDAYes1FormamideFAM10DEAYes1Furfuryl alcoholFAL20 2DEAYes1Gasoline blending stocks: AlkylatesGAK33DA/CAYes1Gasolines: Automotive (containing not over 4.23 grams lead per gallon) GAT33DCAYes1Gasolines: Aviation (containing not over 4.86 grams of lead per gallon) GAV33DCAYes1Gasolines: PolymerGPL33DA/CAYes1Gasolines: Straight runGSR33DA/CAYes1GlycerineGCR20 2DEAYes1	Ethylene glycol phenyl ether	EPE	40	D	Е		А	Yes	1				
Ethyl propionateEPR34DCAYes1Ethyl tolueneETE32DDAYes1FormamideFAM10DEAYes1Furfuryl alcoholFAL20 2DEAYes1Gasoline blending stocks: AlkylatesGAK33DA/CAYes1Gasoline blending stocks: ReformatesGRF33DA/CAYes1Gasolines: Automotive (containing not over 4.23 grams lead per gallon) GAT33DCAYes1Gasolines: Casinghead (natural)GCS33DA/CAYes1Gasolines: Straight runGSR33DA/CAYes1GlycerineGCR20 2DEAYes1	Ethyl-3-ethoxypropionate	EEP	34	D	D		А	Yes	1				
Ethyl tolueneETE32DDAYes1FormamideFAM10DEAYes1Furfuryl alcoholFAL20 2DEAYes1Gasoline blending stocks: AlkylatesGAK33DA/CAYes1Gasoline blending stocks: ReformatesGRF33DA/CAYes1Gasolines: Automotive (containing not over 4.23 grams lead per gallon) GAT33DCAYes1Gasolines: Aviation (containing not over 4.86 grams of lead per gallon) GAV33DCAYes1Gasolines: Casinghead (natural)GCS33DA/CAYes1Gasolines: Straight runGSR33DA/CAYes1GlycerineGCR20 2DEAYes1	2-Ethylhexanol	EHX	20	D	Е		А	Yes	1				
FormamideFAM10DEAYes1Furfuryl alcoholFAL20 2DEAYes1Gasoline blending stocks: AlkylatesGAK33DA/CAYes1Gasoline blending stocks: ReformatesGRF33DA/CAYes1Gasolines: Automotive (containing not over 4.23 grams lead per gallon) GAT33DCAYes1Gasolines: Aviation (containing not over 4.86 grams of lead per gallon) GAV33DCAYes1Gasolines: Casinghead (natural)GCS33DA/CAYes1Gasolines: Straight runGSR33DA/CAYes1GlycerineGCR20 2DEAYes1	Ethyl propionate	EPR	34	D	С		А	Yes	1				
Furfuryl alcoholFAL20 2DEAYes1Gasoline blending stocks: AlkylatesGAK33DA/CAYes1Gasoline blending stocks: ReformatesGRF33DA/CAYes1Gasolines: Automotive (containing not over 4.23 grams lead per gallon) GAT33DCAYes1Gasolines: Aviation (containing not over 4.86 grams of lead per gallon) GAV33DCAYes1Gasolines: Casinghead (natural)GCS33DA/CAYes1Gasolines: PolymerGPL33DA/CAYes1Gasolines: Straight runGSR33DA/CAYes1GlycerineGCR20 2DEAYes1	Ethyl toluene	ETE	32	D	D		А	Yes	1				
Gasoline blending stocks: AlkylatesGAK33DA/CAYes1Gasoline blending stocks: ReformatesGRF33DA/CAYes1Gasolines: Automotive (containing not over 4.23 grams lead per gallon) GAT33DCAYes1Gasolines: Aviation (containing not over 4.86 grams of lead per gallon) GAV33DCAYes1Gasolines: Aviation (containing not over 4.86 grams of lead per gallon) GAV33DCAYes1Gasolines: Casinghead (natural)GCS33DA/CAYes1Gasolines: PolymerGPL33DA/CAYes1Gasolines: Straight runGSR33DA/CAYes1GlycerineGCR20 2DEAYes1	Formamide	FAM	10	D	Е		А	Yes	1				
Gasoline blending stocks: ReformatesGRF33DA/CAYes1Gasolines: Automotive (containing not over 4.23 grams lead per gallon) GAT33DCAYes1Gasolines: Aviation (containing not over 4.86 grams of lead per gallon) GAV33DCAYes1Gasolines: Casinghead (natural)GCS33DA/CAYes1Gasolines: PolymerGPL33DA/CAYes1Gasolines: Straight runGSR33DA/CAYes1GlycerineGCR20 2DEAYes1	Furfuryl alcohol	FAL	20 2	2 D	Е		А	Yes	1				
Gasolines: Automotive (containing not over 4.23 grams lead per gallon) GAT33DCAYes1Gasolines: Aviation (containing not over 4.86 grams of lead per gallon) GAV33DCAYes1Gasolines: Casinghead (natural)GCS33DA/CAYes1Gasolines: PolymerGPL33DA/CAYes1Gasolines: Straight runGSR33DA/CAYes1GlycerineGCR20 2DEAYes1	Gasoline blending stocks: Alkylates	GAK	33	D	A/C		А	Yes	1				
Gasolines: Aviation (containing not over 4.86 grams of lead per gallon)GAV33DCAYes1Gasolines: Casinghead (natural)GCS33DA/CAYes1Gasolines: PolymerGPL33DA/CAYes1Gasolines: Straight runGSR33DA/CAYes1GlycerineGCR20 2DEAYes1	Gasoline blending stocks: Reformates	GRF	33	D	A/C		А	Yes	1				
Gasolines: Casinghead (natural)GCS33DA/CAYes1Gasolines: PolymerGPL33DA/CAYes1Gasolines: Straight runGSR33DA/CAYes1GlycerineGCR20 2DEAYes1	Gasolines: Automotive (containing not over 4.23 grams lead per gallo	n) GAT	33	D	С		А	Yes	1				
Gasolines: PolymerGPL33DA/CAYes1Gasolines: Straight runGSR33DA/CAYes1GlycerineGCR20 2DEAYes1	Gasolines: Aviation (containing not over 4.86 grams of lead per gallon) GAV	33	D	С		А	Yes	1				
Gasolines: Straight runGSR33DA/CAYes1GlycerineGCR20 2DEAYes1	Gasolines: Casinghead (natural)	GCS	33	D	A/C		А	Yes	1				
Glycerine GCR 20 ² D E A Yes 1	Gasolines: Polymer	GPL	33	D	A/C		А	Yes	1				
	Gasolines: Straight run	GSR	33	D	A/C		А	Yes	1				
Heptane (all isomers), see Alkanes (C6-C9) (all isomers) HMX 31 D C A Yes 1	Glycerine	GCR	20 2	2 D	Е		А	Yes	1				
	Heptane (all isomers), see Alkanes (C6-C9) (all isomers)	НМХ	31	D	С		A	Yes	1				



Certificate of Inspection Cargo Authority Attachment

Vessel Name: CBC 1708 Official #: 1296767

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Shipyard: Southwest Hull #: 9811

Cargo Identification							Conditions of Carriage						
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	App'd	Recovery VCS Category	Special Requirements in 46 CFR 151 General and Mat'ls of Construction	Insp. Period			
n-Heptanoic acid	HEN	4	D	Е		А	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	Е		А	Yes	1					
Hexane (all isomers), see Alkanes (C6-C9)	HXS	31 ²	D	B/C		А	Yes	1					
Hexanoic acid	нхо	4	D	Е		А	Yes	1					
Hexanol	HXN	20	D	D		А	Yes	1					
Hexene (all isomers)	HEX	30	D	С		А	Yes	2					
Hexylene glycol	HXG	20	D	Е		А	Yes	1					
Isophorone	IPH	18 ²	D	Е		А	Yes	1					
Jet fuel: JP-4	JPF	33	D	Е		А	Yes	1					
Jet fuel: JP-5 (kerosene, heavy)	JPV	33	D	D		А	Yes	1					
Kerosene	KRS	33	D	D		А	Yes	1					
Methyl acetate	MTT	34	D	D		А	Yes	1					
Methyl alcohol	MAL	20 ²	D	С		А	Yes	1					
Methylamyl acetate	MAC	34	D	D		А	Yes	1					
Methylamyl alcohol	MAA	20	D	D		А	Yes	1					
Methyl amyl ketone	MAK	18	D	D		А	Yes	1					
Methyl tert-butyl ether	MBE	41 ²	D	С		А	Yes	1					
Methyl butyl ketone	MBK	18	D	С		А	Yes	1					
Methyl butyrate	MBU	34	D	С		А	Yes	1					
Methylcyclohexane	MCY	31	D	С		А	Yes	1					
Methyl ethyl ketone	MEK	18 ²	D	С		А	Yes	1					
Methyl heptyl ketone	МНК	18	D	D		А	Yes	1					
Methyl isobutyl ketone	MIK	18 ²	D	С		А	Yes	1					
Mineral spirits	MNS	33	D	D		А	Yes	1					
Myrcene	MRE	30	D	D		А	Yes	1					
Naphtha: Heavy	NAG	33	D	#		А	Yes	1					
Naphtha: Petroleum	PTN	33	D	#		А	Yes	1					
Naphtha: Solvent	NSV	33	D	D		А	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		А	Yes	1					
Nonene (all isomers)	NON	30	D	D		А	Yes	2					
Nonyl alcohol (all isomers)	NNS	20 ²	D	Е		А	Yes	1					
Nonyl phenol	NNP	21	D	Е		А	Yes	1					
Nonyl phenol poly(4+)ethoxylates	NPE	40	D	Е		А	Yes	1					
Octane (all isomers), see Alkanes (C6-C9)	OAX	31	D	С		А	Yes	1					
Octanoic acid (all isomers)	OAY	4	D	Е		А	Yes	1					
Octanol (all isomers)	OCX	20 ²	D	Е		А	Yes	1					



Certificate of Inspection Cargo Authority Attachment

Vessel Name: CBC 1708 Official #: 1296767

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Shipyard: Southwest Hull #: 9811

Cargo Identification	Conditions of Carriage									
		Compat					Vapor R	ecovery	Special Requirements in 46 CFR	
Name	Chem Code	Group No	Sub Chapter	Grade	Hull Type	Tank Group	App'd (Y or N)	VCS Category	151 General and Mat'ls of Construction	Insp. Period
Octene (all isomers)	отх	30	D	С		А	Yes	2		
Oil, fuel: No. 2	OTW	33	D	D/E		А	Yes	1		
Oil, fuel: No. 2-D	OTD	33	D	D		А	Yes	1		
Oil, fuel: No. 4	OFR	33	D	D/E		А	Yes	1		
Oil, fuel: No. 6	OSX	33	D	Е		А	Yes	1		
Oil, misc: Crude	OIL	33	D	A/D		А	Yes	1		
Oil, misc: Diesel	ODS	33	D	D/E		А	Yes	1		
Oil, misc: Gas, high pour	OGP	33	D	Е		А	Yes	1		
Oil, misc: Lubricating	OLB	33	D	Е		А	Yes	1		
Oil, misc: Residual	ORL	33	D	Е		А	Yes	1		
Oil, misc: Turbine	ОТВ	33	D	Е		А	Yes	1		
alpha-Olefins (C6-C18) mixtures	OAM	30	D	Е		А	Yes	1		
Olefins (C13+, all isomers)	OFZ	30	D	Е		А	Yes	1		
Pentane (all isomers)	PTY	31	D	А		А	Yes	5		
Pentene (all isomers)	PTX	30	D	А		А	Yes	5		
n-Pentyl propionate	PPE	34	D	D		А	Yes	1		
alpha-Pinene	PIO	30	D	D		А	Yes	1		
beta-Pinene	PIP	30	D	D		А	Yes	1		
Poly(2-8)alkylene glycol monoalkyl (C1-C6) ether	PAG	40	D	Е		Α	Yes	1		
Poly(2-8)alkylene glycol monoalkyl (C1-C6) ether acetate	PAF	34	D	Е		А	Yes	1		
Polybutene	PLB	30	D	Е		А	Yes	1		
Polypropylene glycol	PGC	40	D	Е		А	Yes	1		
Isopropyl acetate	IAC	34	D	С		А	Yes	1		
n-Propyl acetate	PAT	34	D	С		А	Yes	1		
Isopropyl alcohol	IPA	20 2	^{2,3} D	С		А	Yes	1		
n-Propyl alcohol	PAL	20 ²	2 D	С		А	Yes	1		
Propylbenzene (all isomers)	PBY	32	D	D		А	Yes	1		
Isopropylcyclohexane	IPX	31	D	D		А	Yes	1		
Propylene glycol	PPG	20 2	2 D	Е		А	Yes	1		
Propylene glycol methyl ether acetate	PGN	34	D	D		А	Yes	1		
Propylene tetramer	PTT	30	D	D		А	Yes	1		
Sulfolane	SFL	39	D	Е		А	Yes	1		
Tetraethylene glycol	TTG	40	D	Е		А	Yes	1		
Tetrahydronaphthalene	THN	32	D	Е		А	Yes	1		
Toluene	TOL	32	D	С		А	Yes	1		
Tricresyl phosphate (containing less than 1% ortho isomer)	TCP	34	D	Е		А	Yes	1		
Triethylbenzene	TEB	32	D	Е		А	Yes	1		
Triethylene glycol	TEG	40	D	Е		А	Yes	1		
Triethyl phosphate	TPS	34	D	Е		А	Yes	1		
Trimethylbenzene (all isomers)	TRE	32	D	{D}		А	Yes	1		



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Vessel Name: CBC 1708 Official #: 1296767

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Shipyard: Southwest Hull #: 9811

Cargo Iden	Conditions of Carriage									
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	App'd	Recovery VCS Category	Special Requirements in 46 CFR 151 General and Mat'ls of Construction	Insp. Period
Trixylyl phosphate	TRP	34	D	Е		А	Yes	1		
1-Undecene	UDC	30	D	D/E		А	Yes	1		
1-Undecyl alcohol	UND	20	D	Е		А	Yes	1		
Xylenes (ortho-, meta-, para-)	XLX	32	D	D		А	Yes	1		



Certificate of Inspection Cargo Authority Attachment

Vessel Name: CBC 1708 Official #: 1296767

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Shipyard: Southwest Hull #: 9811

Explanation of terms & symbols used in the Table:

Cargo Identification	
Name	The propper 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 20593-0001. Telephone
Note 2	(202) 372-1425. 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.
Subchapter D Subchapter O Note 3	Those flammable and combustible liquids listed in 46 CFR Table 30.25-1. Those hazardous cargoes listed in 46 CFR Table 151.05 and 46 CFR Part 153 Table 2. Those cargoes listed in 46 CFR Part 153 Table 2 are non-regulated cargoes when carried in bulk on non-oceangoing barges.
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.
π	No hammability/combustibility grade has been assigned yet, as the necessary hash 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.
I II	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 minut require and an provintie the satisfies to produce and an endorse to base to carry products of the total total (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 35.35 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 arrester.
Category 3	(Highly toxic) VCSs for these toxic cargoes cannot use a spill valve or rupture disk as the primary means to meet the overfill protection requirement of 46 CFR 39.20-9. This requirement is in addition to the requirements of Category 1.
Category 4	(Polymerizes and highly toxic) Must comply with requirements of Categories 1, 2 and 3.
Category 5	(High vapor pressure) VCS pressure drop calculations for cargoes with a vapor pressure greater than 14.7 psia at 115 F must take into account increased vapor-air mixture densities and vapor growth rates as compared to Category 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.
none	The cargo has not been evaluated/classified for use in vapor control systems.