

10 Aug 2020 Certification Date: Expiration Date: 10 Aug 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.

		Off	icial Number	IMO Nur	nber	Call Sign	Service	
CBC 202		10	027570				Tank	Barge
Hailing Port	CANC LA		Hull Material	Hors	epower	Propulsion		
NEW ORLE	ANS, LA		Steel					
UNITED ST	ATES							
Place Built	mi 16c		Delivery Date	Keel Laid Date	Gross Tons	Net Tons	DWT	Length
GULFPORT	MS		06Apr1995		R-1061	R-1061		R-195.0
UNITED ST	ATES		our pri rocc		F	F		1-0
1801 ENGIN BELLE CHA UNITED STA	SSE, LA 7003 ATES	7		180° BEL UNI	IAL BARGE I ENGINEER LE CHASSE IED STATE	E, LA 70037 S		
This vessel m 0 Certified Li	nust be manne feboatmen, 0 (d with the follow Certified Tanker	ving licensed rmen, 0 HSC	and unlicense Type Rating,	d Personnel and 0 GMDS	Included in w SS Operators.	hich there n	nust be
0 Masters		0 Licensed Mates	0 Chief	Engineers	0 Oi	lers		
0 Chief Mate		0 First Class Pilot	s 0 First A	Assistant Enginee	ers			
0 Second Ma		0 Radio Officers	0 Secon	nd Assistant Engi	neers			
0 Third Mate		0 Able Seamen		Assistant Engine	ers			
	st Class Pilot	0 Ordinary Seame		sed Engineers				
0 Mate First In addition, th Persons allov	nis vessel may	0 Deckhands carry 0 Passen		ied Member Engi Persons in cr		ns in addition to	crew, and	no Others. Total
, -3,-3,0,0,0,0,0	1 570.4	nditions Of Op	eration:					
	Bays, and	The state of the s	cration.					
Luntoo,		ly, not more	than twelve	(12) miles i	rom shore	between St. M	arks and C	arrabelle,
Florida.			Carrent V					Acres de Servicio
Florida. This vessel vessel is op salt water i	has been gra	nted a fresh lt water more 46 CFR 31.10	than 6 mont	hs in any 12	month per	iod, the vess	el must be	(2). If this inspected using oon as this
Florida. This vessel vessel is opsalt water ichange in st	has been gra perated in sa intervals per tatus occurs.	lt water more	than 6 mont -21(a)(1) an	ths in any 12 nd the cogniz	month per: ant OCMI no	iod, the vess otified in wr	el must be iting as s	inspected using oon as this
Florida. This vessel vessel is opsalt water in the change in stank bath the control of the cont	has been gra perated in sa intervals per tatus occurs. arge is parti	It water more 46 CFR 31.10 cipating in to	than 6 mont -21(a)(1) and the Eighth and L CERTIFIC	ths in any 12 and the cognized Ninth Coas	month persant OCMI no t Guard Dis	iod, the vess ptified in wr strict's Tank	el must be iting as s Barge Str	inspected using oon as this eamlined
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Vessel Name

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

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Service

Call Sign

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Official Number

IMO Number

i, LA	Н						
S	S	ill Material	Hors	epower	Propulsion		
			Keel Laid Date	Gross Tons R-1061 I-	Net Tons R-1061 I-	DWT	Length R-195.0 I-0
RS RD E, LA 70037 S	th the following	licensed	CAN 180 BEL UNI	NAL BARGE 1 ENGINEER LE CHASSE TED STATE	RS RD E, LA 70037 S	which there r	must be
0 Lic 0 Fi 0 Ri 0 Al ass Pilot 0 O	censed Mates est Class Pilots adio Officers ble Seamen rdinary Seamen	0 Chief 0 First 0 Seco 0 Third 0 Licer	Engineers Assistant Engine nd Assistant Engine Assistant Engine ased Engineers ified Member Engineers	0 O ers gineers eers	ilers		d no Others. Total
ed And Conditance, and So weather only, s been grante ated in salt ervals per 46 us occurs.	ions Of Opera unds not more tha d a fresh wat water more th CFR 31.10-21	n twelve er serv an 6 mon (a)(l)	e (12) miles ice examinat nths in any and the cogn and Ninth Co	from shore ion interva. 12 month pe izant OCMI ast Guard D	between St. 1 per 46 CFF riod, the venotified in istrict's Ta	Marks and 31.10-21(a essel must b writing as	Carrabelle, (a) (2). If this be inspected using soon as this
tion for Certificane Safety Unit	Marshardan ba	en comp tified the thereund	leted at Port / vessel, in all r	Arthur, TX, U espects, is in	NITED STAT	nur trio applic	er in Charge, Marine cable vessel inspection
	RS RD E, LA 70037 S to be manned with patmen, 0 Certification (1) Certification (2) Certification (3) Certification (4) Certification (4) Certification (4) Certification (5)	COMPANY INC RS RD E, LA 70037 S to be manned with the following patmen, 0 Certified Tankermen O Licensed Mates O First Class Pilots O Radio Officers O Able Seamen lass Pilot O Ordinary Seamen ses Pilots O Deckhands vessel may carry 0 Passengers d: 0 ed And Conditions Of Opera ays, and Sounds weather only, not more that the seamen of the servals per 46 CFR 31.10-21 the page is participating in the PAGE FOR ADDITIONAL Office Safety Unit Port Arthur certifice Safety Unit Port Arthur certifices	COMPANY INC RS RD E, LA 70037 S to be manned with the following licensed batmen, 0 Certified Tankermen, 0 HSC O Licensed Mates O First Class Pilots O Radio Officers O Radio Officers O Able Seamen O Third Iss Pilots O Deckhands O Qual Vessel may carry 0 Passengers, 0 Other O Deckhands O Deckhands O Deckhands O Deckhands O Chief O Deckhands O Deckhands O Qual Vessel may carry 0 Passengers, 0 Other O Deckhands O	COMPANY INC RS RD E, LA 70037 S De manned with the following licensed and unlicense outmen, 0 Certified Tankermen, 0 HSC Type Rating, O Licensed Mates O First Class Pilots O Radio Officers O Radio Officers O Second Assistant Engine O Radio Officers O Second Assistant Engine O Able Seamen O Third Assistant Enginess Ses Pilots O Deckhands O Qualified Member Engineers O Qualified Member Engineers O Radio Officers O Qualified Member Engineers O Second Assistant Enginess O O Company Seamen O Third Assistant Enginess O Deckhands O Deckhands O Qualified Member Engineers O Deckhands	COMPANY INC RS RD E, LA 70037 S COMPANY INC RS RD E, LA 70037 S Company Inc Company	O6Apr1995 R-1061 R-106	OGAPT1995 R-1061 R-106



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Vessel Name	Official Number		IMO Num	ber	Call Sign	Service	
CBC 202	1027570					Tank E	Barge
Hailing Port	Hull Ma	torial	Hores	epower	Propulsion		
NEW ORLEANS, LA	Stee		HOISE	аромы	Propulsion		
UNITED STATES	Stee						
Place Built							
GULFPORT MS	Delivery Da	te Kee	el Laid Date	Gross Tons	Net Tons	DWT	Length
	06Apr1	995		R-1061 I-	R-1061 I-		R-195 0 I-0
UNITED STATES					1-		
Owner CANAL BARGE COMPAI	NY INC		Operato CAN		COMPANY IN	IC	
1801 ENGINEERS RD			1801	ENGINEER	RS RD		
BELLE CHASSE, LA 700 UNITED STATES	37			LE CHASSE TED STATE	E, LA 70037		
ONITED STATES			UNII	EDSIAIE	5		
This vessel must be mann						hich there m	ust be
0 Certified Lifeboatmen, 0	Certified Tankermen, 0	HSC Typ	pe Rating, a	and 0 GMD	SS Operators.		
0 Masters	0 Licensed Mates 0	Chief Engi	ineers	0 0	ilers		
0 Chief Mates			stant Enginee				
0 Second Mates			ssistant Engir				
0 Third Mates			stant Engine	ers			
Master First Class Pilot Mate First Class Pilots	•	Licensed E	J				
In addition, this vessel may			Member Engi		ne in addition t	o crow and	no Others Total
Persons allowed: 0	y carry o Fassengers, o c	Julei Pe	150ffS Iff Cit	ew, o Peiso	ris iii addillori t	o crew, and	no Others. Total
Route Permitted And Co	onditions Of Operation:						
Lakes, Bays, and	Sounds						
Also, in fair weather o	mlv. not more than tw	elve (12	2) miles f	rom shore	hetween St N	Marks and C	arrabelle.

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

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

This tank barge is participating in the Eighth and Ninth Coast Guard District's Tank Barge Streamlined

SEE NEXT PAGE FOR ADDITIONAL CERTIFICATE INFORMATION

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

	Annual/Peri	odic/Re-Inspe	ction	This Amended certificate issued by:
Date	Zone	A/P/R	Signature	P. J. RANERI LCDE, USCG, by direction
				Officer in Charge, Marine Inspection New Orleans, LA
				Inspection Zone



Certification Date: 10 Aug 2020 Expiration Date: 10 Aug 2025

Certificate of Inspection

Vessel Name: CBC 202

Inspection Program (TBSIP). Inspection activities aboard this barge shall be conducted in accordance with its Tank Barge Action Plan. Inspection issues concerning this barge should be directed to OCMI, Sector New Orleans.

---Hull Exams---

 Exam Type
 Next Exam
 Last Exam
 Prior Exam

 DryDock
 31Jul2025
 14Jul2015
 26Apr2005

 Internal Structure
 31Jul2025
 10Aug2020
 14Jul2015

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

Authorization: FLAMMABLE/COMBUSTIBLE LIQUIDS AND SPECIFIED HAZARDOUS CARGOES

Total Capacity Units Highest Grade Type Part151 Regulated Part153 Regulated Part154 Regulated

16770 Barrels A Yes No No

Hazardous Bulk Solids Authority

Not Authorized

Loading Constraints - Structural

Tank Location Description	Max Cargo Weight per Tank (short tons)	Maximum Density (lbs/gal)
1 C/L	642	13.60
2-3 P/S	360	13.60
4 C/L	720	13.60

Loading Constraints - Stability

Hull Type	Maximum Load (short tons)	Maximum Draft (ft/in)	Max Density (lbs/gal)	Route Description
111	2667	11ft 0in	13.60	RIVERS; LAKES, BAYS AND SOUNDS
11	2018	9ft 0in	13.60	RIVERS; LAKES, BAYS AND SOUNDS

Conditions Of Carriage

Only those specified hazardous cargoes named in the vessel's Cargo Authority Attachment (CAA), serial # C1-1203357, dated 20JUL12, 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 greater than 0.5% benzene, the person in charge is responsible for ensuring the provisions of 46 CFR 197, Subpart C, are applied.

Vapor Control Authorization

In accordance with 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 # C2-9500963 dated 16 Mar 1995, and found acceptable for collection of bulk liquid cargo vapors annotated with "Yes" in the CAA's VCS column.

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

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

^{*}Stability and Trim*



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13.6 lbs/gal, may be carried as slack loads, but shall not exceed the tank weight limits as listed above.

In accordance with 46 CFR Part 39.5000, this vessel's VCS has been evaluated and approved for multi-breasted tandem loading with other vessels specifically approved by Marine Safety Center letter Serial No. C2-2100330 dated February 4, 2021.

--- Inspection Status ---

Cargo Tanks

	Internal Exam	n		External Ex	am	
Tank Id	Previous	Last	Next	Previous	Last	Next
1 C/L	26Apr2005	14Jul2015	31Jul2025	3	F-7	
2-3 P/S	26Apr2005	14Jul2015	31Jul2025		-	÷
4 C/L	26Apr2005	14Jul2015	31Jul2025	- C		-
			Hydro Test			
Tank Id	Safety Valve	s	Previous	Last	Next	
1 C/L	*		4	-	79	
2-3 P/S	÷		2	-	(2)	
4 C/L	6			-		

--- Conditional Portable Fire Extinguisher Requirements---

Required Only During Transfer of Cargo or Operation of Barge Machinery

--- Fire Fighting Equipment ---

Number of Fireman Outfits - 0

Fire Extinguishers - Hand portable and semi-portable

Quantity Class Type

2 40-B

---Certificate Amendments---

Amending Unit Amendment Date Amendment Remark

Marine Safety Unit Baton 04Mar2021 Updated Conditions of Carriage.

Rouge

END



C1-1203357 20-Jul-12

Certificate of Inspection

Cargo Authority Attachment

Vessel Name: CBC 202 Official #: 1027570

Shipyard: Trinity Marine Group

46 CFR 151 Tank Tank Group Information				tics	1	_								1700	l#: 1457		
Trik	Cargo I	dentificat	ion	11000	Garge	,	Tanks		Carg		Enviro	nmental I	Fire	Special Require	ements	1	1
Grp Tanks in Group	Density	Press.	Temp.	Hull Typ	Seg	Туре	Vent	Gauge	Pipe Class	Cont	Tanks	Handling	Protection		Materials of	Elec	-
10, 2P/S, 3P/S, 4C	13,6	Atmos.	Amb.	11	181	Interest	FINA	-	U1446	- Com	Lauve	Space	Provided	General	Construction	Hoz	Cont
Notes: 1. Under Environme	nini Contra	Tuesta a			211	Integral Gravity	PV	Closed	11	G-1	NR	NA	Pariable	-up-10(0), 00-13,	55-1(b), (a), (b), (f), (h), (j), 56-1(a), (b), (c), (d), (e), (f), (g),		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 sullable 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 Etactrical Hazard Class, NA means that the tank group is suitable only for those cargos which have no ofectrical hazard class requirement. NR means that the vessel has no electrical equipment located in a hazardeus location.

List of Authorized Cargoes

Cargo Identification	211					-		Condi	itions of Carriage	
New	Chem	Compat	Cut		1.7		Vapor R	ocovery	or Garriage	_
Name	Code	Group No	Sub Chapter	Grade	Hull Type	Tank Group	(Y or N)	VCS Calegory	Special Requirements in 46 CFR 151 General and Mat's of	Insp. Perio
Authorized Subchapter O Cargoes Acetonitrile										
Acrylonitrite	ATN	37	0	C	110	A	Yes	3	No	a
Adiponitrile	ACN	152	0	C	- 0	Α	Yes	4	50-70(a), .65-1(e)	G
Alkyl(C7-C9) nitrates	ADN	37	0	E	11	A	Yes	1	No	G
Aminoethylethanolamine	AKN	342	0	NA	111	A	No	N/A	50-81, .50-86	G
Ammonlum bisulfite solution (70% or less)	AEE	8	0	E	111	A	Yes	1	.55-1(h)	G
Ammonium hydroxide (28% or less NH3)	ABX	432	0	NA	111	A	No	N/A	50-73, .56-1(b), (b), (c)	G
Anthracene oil (Coal tar fraction)	AMH	6	0	NA	III	A	No	N/A	.56-1(n), (b), (c), (f), (g)	
Benzene	AHO	33	0	NA	40	Α	No	N/A	No.	0
Benzene or hydrocarbon mixtures (having 10% Benzene or more)	BNZ	32	0	C	111	A	Yes	1	.50-60	
Benzene or hydrocarbon mixtures (naving 10% Benzene or more)	BHB	322	0	C	101	A	Yes	1	50-60	G
Benzene or hydrocarbon mixtures (containing Acetylene and 10% Benzene or more)	BHA	322	0	C	III	A	Yes	1	60-60, .56-1(b), (d), (0, (p)	G
Benzene, Toluene, Xylene mixtures (10% Benzene or more)	втх		-						35, 35, 190, (a), (b), (g)	G
Butyl acrylate (all isomers)		32	0	B/C	101	A	Yes	1	.50-60	G
Butyl methacrylate	BAR	14	0	D	111	Α	Yes	2	50-70(n), .50-81(n), (b)	G
Butyraldehyde (all isomers)	ВМН	14	0	D	1H	A	Yes	2	60-70(a), .50-81(a), (b)	G
Camphor oll (light)	BAE	19	0	C	111	A	Yes	1	.55-1(h)	0
Carbon tetrachtoride	CPO	18	0	D	0	A	No	N/A	No	3
Caustic potesh solution	CBT	36	0	NA	10	A	No	N/A	No	a
Caustic soda solution	CPS	52	0	NA	111	Α	No	N/A	50-73, (55-10)	G
Chemical Oil (refined, containing phenolics)	CSS	52	0	NA	m	A	No	N/A	60-73, 65-1(j)	6
Chlorobenzene	COD	21	0	E	1)	A	No	N/A	.50-73	ß
Chloroform	CRB	36	0	D	III	A	Yes	1	No	G
Coal tar naphtha solvent	CRF	36	0	NA.	111	A	Yes	3	No	0
Creosoto	NCT	33	0	D	100	A	Yes	1	.50-73	G
Presols (all Isomers)	CCM	212	0	E	III	A	Yes	1	No	g
Presylate spent caustic	CRS	21	0	E	111	A	Yes	1	No	9
Presylic acid tar	CSC	5	0	NA	111	A	No	N/A	.50-73, .55-1(b)	G
Protonaldehyde	CRX		0	E	m	A	Yes	1	.55-1(1)	G
rude hydrocarbon feedstock (containing Butyraldehydes and thylpropyl acrolain)	CTA	192		C	11	A	Yes	4	(55-1(h)	G
yclohexanone	3075)				101	Α	No	N/A	No	G
yclohexanone, Cyclohexanol mixture	CCH	18	0	D	III	A	Yes	1	.56-1(a), (b)	
yclohexylamine	CYX	182	0		111	A	Yes		.56-1 (b)	G
yclopentadiene, Styrene, Benzene mixture	CHA	7		_	(1)	A	Yes	_		0
A styrene, Benzene mixture	CSB	30		_	111	A	Yes		.56-1(a), (b), (c), (g) .50-60, .56-1(b)	G

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



Serial #: C1-1203357

20-Jul-12

Certificate of Inspection

Cargo Authority Attachment

Vessel Name: CBC 202 Official #: 1027570

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Shipyard: Trinity Marine Group

Cargo Identification	n							Condi	tions of Carriage	G CFR Insp. Period G G G G G G G G G G G G G G G G G G G			
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Typa	Tank Group		VCS Catagory	Special Requirements in 46 CFR 151 General and Mat'ls of				
iso-Decyl acrylate	IAI	14	-	E	III	A	Yes	- Carrier C					
Dichlorobenzene (all isomers)	DBX	36	0	E	HI	A	Yes	2	.50-70(a), .50-81(a), (b), .55-1(c)	_			
1,1-Dichloroethane	DCH	36	0	C	111	A	Yes	3	.56-1(a), (b) No				
2,2'-Dichloroethyl ether	DEE	41	0	D	II.	A		1	.85-1(f)				
Dichloromethane	DCM	-	0	NA	111	A	Yes	1	No				
2,4-Dichlorophenoxyacetic acid, diethanolamine salt solution	DDE	43	o	E	10	Ā	No	N/A					
2,4-Dichlorophenoxyacetic acld, dimethylamine salt solution	DAD	01,2	0	A	111	A	No	N/A	.56-1(a), (b), (c), (g)	_			
2,4-Dichlorophenoxyacetic acid, triisopropanolamine salt solution	DTI	432	0	Ê	IH		No	N/A	.66-1(a), (b), (c), (g)				
1,1-Dichloropropane	DPB	36	0	C	81	A	No	N/A	.56-1(a), (b), (c), (g)				
1,2-Dichioropropane	DPP	36	0	C	III		Yes	3	No.				
1,3-Dichloropropane	DPC	36	0	C		A	Yes	3	No	G			
1,3-Dichloropropene	DPU	15	0	D	11	A	Yes	3	No				
Dichtoropropene, Dichtoropropane mixtures	DMX	15	0	C	-11	A	Yes	4	No	-			
Diethanolamine	DEA	8	0	E		A	Yes	1	No				
Diethylamine	DEN	7	0	C	- 111	A .	Yes	1	.55-1(0)	_			
Diethylenetriamine	DET	72	0	E	- 111	A	Yes	3	.85-1(0)	G			
Dilsobutylamine	DBU	7	0		111	A	Yes	1	.65-1(o)	G			
Diisopropanolamine	DIP	8		D	111	A	Yeş	3	.55-1(0)	G			
Disopropylamine	DIA		0	E	III	Α	Yes	1	.66-1(o)	Ģ			
N,N-Dimethylacetamide	DAC	7	0	C	_11	Α	Yes	3	.55-1(o)	G			
Dimethylethanolamine		10	0	E	10	Α	Yes	3	.56-1(b)	g			
Dimethylformamide	DMB	8	0	D	111	Α	Yes	1	.56-1(b), (o)	g			
DI-n-propylamine	DMF	10	0	D	III	A	Yes	1	.66-1(e)	G			
Dodecyldimethylamine, Tetradecyldimethylamine mixture	DNA	7	Q	С	11	Α	Yes	3	.55-1(c)	G			
Dodecyl diphenyl ether disulfonate solution	DOT	7	0	E	111	Α	No	N/A	.58-1(b)	g			
EE Glycol Ether Mixture	DOS	43	0	#	11	Α	No	N/A	No	G			
Ethanolamine	EEG	40	0	D	101	Α	No	N/A	No	G			
Ethyl acrylate	MEA	8	0	E	111	Α	Yes	1	.65-1(o)	G			
Ethylamine solution (72% or less)	EAC	14	0	С	Ш	Α	Yes	2	.50-70(a), .50-81(a), (b)	G			
N-Ethylbutylamine	EAN	7	0	Α	11	Α	Yes	6	.55-1(b)	G			
4-Ethylcyclohexylamine	EBA	7	0	D	111	Α	Yes	3	,55-1(b)	G			
thylene cyanchyddn	ECC	7	0	D	111	Α	Yes	1	,68-1(b)	G			
Stylenedlamine	ETC	20	0	E	HI	- A	Yes	1	No	G			
thylene dishloride	EDA	72	0	D	111	Α	Yes	1	:55-1(c)	g			
thylene glycol hexyl ether	EDC	36 ²	0	С	#1	Α	Yes	1	No	G			
	EGH	40	0	E	III	Α	No	N/A	No	G			
Ethylane glycol monoalkyl ethers	EGC	40	0	D/E	10	Α	Yes	1	No	G.			
thylene glycol propyl ether	EGP	40	0	E	111	Α	Yes	1	No	G			
-Ethylhexyl acrylate	EAI	14	0	E	HI	Α	Yes	2	.60-70(a), 60-81(a), (b)	G			
thyl methacrylate	ETM	14	0	D/E	Ш	A	Yes	2	.50-70(a)	-			
-Ethyl-3-propylaorolein	EPA	19 ²	0	E	III	A	Yes	1	No	G			
ormaldehyde solution (37% to 50%)	FMS	192		D/E	Ш	A	Yes	1	,65-1(h)				
urfural	FFA	19		D	10	A	Yes	1	.56-1(h)	G			
llutaraldehyde solution (50% or less)	GTA	19		NA	III	Ā	No		No	G			
examethylenediamine solution	HMC	7		E	111	A		N/A		G			
lexamethyleneimine	нмі	7	_	c	11		Yes	1	.55-1(0)	G			
ydrocarbon 5-9	HFN			C	111	A	Yes	1	.58-1(b), (o)	g			
oprene	IPR	30	_	A		A	Yes	1	.50-70(a), .50-61(a), (b)	G			
soprene, Pentadiene mixture	IPN			В	101	A	No	N/A	.50-70(a), .50-81(a), (b)	g			



Serial #: C1-1203357 Dated:

20-Jul-12

Certificate of Inspection

Cargo Authority Attachment

Vessel Name: CBC 202 Official #: 1027570

Shipyard: Trinity Marine Group

Large Hone (Carron Continue)										
Cargo Identification	n				3			Condi	tions of Carriage	
Name Name	Chem Code	Compat Group No	Sub Chapte	Grade	Hull Type	Tank Group	App'd (Y or N)	VCS Calegory	Special Requirements In 46 CFR 151 General and Mat'ls of	Insp.
Kraft pulping liquors (free alkali content 3% or more)(including: Blac Green, or White liquor)	k, KPL	5	0	NA	10	A	No	N/A	,50-73, .66-1(a), (a), (p)	Perio
Mesityl oxide	MSO	182	0	0		Ω.	0.4			
Melhyl acrylate	MAM	- 1	0	C	111	Α_	Yes		No	G
Methylcyclopentadiene dimer	MCK	30	0	C	111	A	Yes	2	.50-70(a), .50-81(a), (b)	0
Methyl diethanolamine	MDE	8	0	E	m	Α.	Yes	1	No	G
2-Methyl-5-ethylpyridine	MEP	9	0	E	111	A	Yes	1	56-1(b), (c)	G
Melhyl methacrylate	MMM	14	0	C	111	A	Yes	1	.65-1(a)	G
2-Methylpyridine	MPR	9	0	D		A	Yes	2	50-70(a), ,50-61(a), (b)	G
alpha-Methylstyrene	MSR	30	0	D	10	A	Yes	3	55-1(a)	G
Morpholine	MPL	72	0	D	_	A	Yes	2	50-70(a), .50-81(a), (b)	G
Nitroethane	NTE	42	0	D	101	A	Yes	1	,55-1(0)	G
1- or 2-Nitropropane	NPM	42	0	-	II	A	No	N/A	50-81, 58-1(b)	G
1,3-Pentadiene	PDE	30	0	D	111	Α	Yes	1	.50-61	G
Perchloroethylene	PER	36	100	A	111	A	Yes	7	.50-70(n), .50-81	0
Polyethylene polyamines	PEB	72	0	NA.	111	A	No	N/A	No	a
Iso-Propanolamine	MPA		0	E	Ш	A	Yes	1	55-1(e)	G
Propanolamine (Iso-, n-)	PAX	8	0	E	111	Α	Yes	1	.65-1(u)	G
iso-Propylamine	IPP	7	0	E	DI	Α	Yes	1	.66-1(b), (a)	G
Pyridine	-		0	Α	u	A	No	N/A	55-1(o)	G
Sodium acetate, Glycol, Water mixture (3% or more Sodium Hydroxid	PAD	9	0	C	111	A	Yes	1	55-1(e)	G
Social administer solution (45% or less)	SAU	-	0	-	10)	Α	No	N/A	.50-73, .55-1())	G
Sodium chlorate solution (50% or less)		5	0	NA	(1)	A	No	N/A	.50-73, .56-1(a), (b), (a)	Q
Sodium hypochlorite solution (20% or less)	SDD	0 1,2	0	NA	111	A	No	N/A	.60-73	G
Sodium sulfide, hydrosulfide solution (H2S 15 promostore)	SHQ	- 6	0	NA	111	Α	No	N/A	.50-73, ,55-1(a), (b)	G
ess than 200 ppm)	SSH	01,2	0	NA NA	10	A	Yes No	1 N/A	.50-73, .55-1(b) .50-73, .55-1(b)	a
Sodium sulfide, hydrosulfide solution (H2S greater than 200 ppm)	201	10.00					1.04	1907	A STATE OF THE STA	G
Styrene (crude)	SSJ	01,2	0	NA	N.	A	No	N/A	.50-73, 55-1(b)	G
Styrene monomer	STX		0	D	111	Α	Yes	2	No	0
1,2,2-Tetrachloroethane	STY	30	0	D	THE .	Α	Yes	2	.50-70(a), .6D-81(a), (b)	G
etraethylenepentamine	TEC	36	0	NA	m	A	No	N/A	No	G
etrahydrofuran	TTP	7	0	E	111	A	Yes	1	.55-1(e)	G
oluenediamine enimplement	THE	41	0	G	111	Α	Yes	1	.50-70(b)	G
.2.4-Trichlorobenzene	TDA	9	0	E	H	Α	No	N/A	.50.73, .66-1(a), (b), (c), (g)	G
.1,2-Trichlorgethane	TCB	36	0	E	111	A	Yes	-	No	G
richloroethylane	TCM	36	0	NA	111	A	Yes	1	50-73, .58-1(a)	G
2,3-Trichloropropane	TCL	362	0	NA	111	A	Yes	1 1	No	G
riethanolamine	TCN	36	0	E.	H	A	Yes	3	50-73, .55-1(n)	G
riethylamine	TEA	82	0	E	H	A	Yes		65-1(b)	G
riethylenetetramine	TEN	7	0	C	11	A	Yes		56-1(e)	G
riphenylborane (10% or less), caustic soda solution	TET	72	0	E	111	A	Yes	_	55-1(b)	a
risodium phosphate solution	TPB	5	0	NA.	10	A	No		56-1(n), (n), (c)	G
rea, Ammonium nitrate solution (containing more than 2% NH3)	TSP	6	0	AV	m	A	No	The second second	60-73, ,56-1(n), (c),	g
anillin black liquor (free alkali content, 3% or more).	UAS	6	0	VA:	OF.	A	No		58-1(b)	G
inyl acetate	VBL	5	0 1	VA.	(f)	Α	No	7	50-73, .56-1(n), (o), (p)	G
inyl neodecanate	VAM	13		2	m	Α	Yes		50-70(n), .60-81(a), (b)	G
nyllaluene	VND	13	0 1		III	A	No	1000	i0-70(a), 50-81(n), (b)	G
	VNT	13	0 1)	0	A	Yes		0-70(a), 50-81, 58-1(a), (b), (c), (g	0



Senai#: C1-1203357 Dated: 20-Jul-12

Certificate of Inspection

Cargo Authority Attachment

Vessel Name: CBC 202 Official #: 1027570

Page 4 of 8

Shipyard: Trinity Marine Group

Cargo Identificatio	n					Conditions of Carriage					
Name	Chem	Compat Group No	Sub Chapter	Grade	Hull	Tank	Vapor I App'd	Recovery VCS	Special Requirements in 48 CFR	Insp	
Subchapter D Cargoes Authorized for Vapor Contr	100	Cloab No	Chapter	Glade	Туре	Group	(Y OF N)	Category	151 General and Mal'is of	Perl	
Acetone Acetone	-										
Acetophenone	ACT	18 ²	D	С		Α	Yes	1			
Alcohol(C12-C16) poly(1-6)ethoxylates	ACP	18	D	E		Α	Yes	1			
Alcohol(C6-C17)(secondary) poly(7-12)ethoxylates	APU	20	D	E		Α	Yes	1			
Amyl acetate (all isomers)	AEB	20	D	E		Α	Yes	1			
Amyl alcohol (iso-, n-, sec-, primary)	AEC	34	D	D		Α	Yes	1			
Benzyl alcohol	AAI	20	D	D		Α	Yes	40			
Brake fluid base mixtures (containing Poly(2-8)alkylene(C2-C3) glycols, Polyalkylene(C2-C10) glycol monoalkyl(C1-C4) ethers, and their borate esters)	BAL	21 20	D	E		A	Yes	1			
Butyl acetate (all isomers)	BAX	24	_	-							
Butyl alcohol (iso-)	IAL	34 20 ²	D	D		<u>A</u>	Yes	1			
Butyl alcohol (n-)	BAN	202	D	D	_	A	Yes	1			
Butyl alcohol (sec-)	BAS		D	D		Α	Yes	1			
Butyl alcohol (tert-)	BAT	202	D	С		Α	Yes	1			
Butyl benzyl phthalate	BPH	0.4	D	C		A	Yes	1			
Butyl toluene	BUE	34	D	E		Α	Yes	1			
Caprolactam solutions		32	D	D		Α	Yes	_1_			
Cyclohexane	CLS	22	D	E		Α	Yes	1			
Cyclohexanol	CHX	31	D	C		A	Yes	1			
1,3-Cyclopentadiene dimer (molten)	CHN	20	D	E		Α	Yes	1			
p-Cymene	CPD	30	D	D/E		Α	Yes	2			
Iso-Decaldehyde	CMP	32	D	D		Α	Yes	1			
n-Decaldehyde	IDA	19	D	E		Α	Yes	1			
Decene	DAL	19	D	E		Α	Yes	1			
Decyl alcohol (all isomers)	DCE	30	D	D		Α	Yes	1			
n-Decylbanzene, see Alkyl(C9+)benzenes	DAX	20 ²	D	E		Α	Yes	_1			
Diacetone alcohol	DBZ	32	D	E		Α	Yes	1			
ortho-Dibutyl phthelate	DAA	20 ²	D	D		A	Yes	_1			
Diethylbenzene	DPA	34	D	E		Α	Yes	1			
Diethylene glycol	DEB	32	D	D		Α	Yes	1			
Dilsobutylene	DEG	402	D	E		Α	Yes	1			
Dilsobutyl ketone	DBL	30	D	С		Α	Yes	1			
Dilsopropyibenzene (ali isomers)	DIK	18	D	D		Α	Yes	1			
Dimethyl phthalate	DIX	32	D	E		Α	Yes	1			
Dioctyl phthalate	DTL	34	D	Ė		Α	Yes	1			
Dipentene	DOP	34	D	E		Α	Yes	1			
Diphenyl	DPN	30	D	D		Α	Yes	1			
Diphenyl, Diphenyl ether mixtures	DIL	32	D	D/E		Α	Yes	1			
Diphenyl ether	DDO	33	D	Ę		Α	Yes	1			
Dipropylene glycol	DPE	41		{E}		A	Yes	1			
Distillates: Flashed feed stocks	DPG	40	D	E		Α	Yeв	1			
Distillates: Straight run	DFF	33		E		Α	Yes	1			
Odecene (all Isomers)	DSR	33	D	E		Α	Yes	1			
2-Ethoxyethyl acetate	DOZ	30		D		Α	Yes	1			
Ethoxy triglycol (crude)	EEA	34		D		Α	Yes	1			
Ethyl acetate	ETG	40		E		Α	Yes	1			
13. MARINIS	ETA	34	D	C		Α	Yes	1			

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Cargo Authority Attachment

Vessel Name: CBC 202 Official #: 1027570

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Shipyard: Trinity Marine Group

Serial #: C1-1203357

20-Jul-12

		- 1	Page 5	of 8					Huli #: 1457				
Cargo Identifica	Cargo Identification							Conditions of Carriage					
						-	Vapor	Recovery Carriage					
Name	Chem Code	Group No	Sub Chapte	Grade	Hull Type	Tenk Group	App'd	VCS	Special Requirements in 46 CFR	Insp			
Ethyl acetoacetate	EAA	34	D		1700	1		Category	151 General and Mattis of	Peri			
Ethyl alcohol	EAL	202	D	E		A	Yes	1					
Ethylbenzene	ETB	32	D	C	_	Α	Yes	1					
Ethyl butanol	EBT	20	D	C		Α	Yes	_1					
Ethyl tert-butyl ether	EBE	41		D	-	Α	Yes	1					
Ethyl butyrate	EBR	34	D	С		Α	Yes	1					
Ethyl cyclohexane	ECY	31		D		A	Yes	1					
Ethylene glycol	EGL	202	_	D		Α	Yes	1					
Ethylene glycol butyl ether acetate	EMA	34	D	E		Α	Yes	1					
Ethylene glycol diacetate	EGY	34	_ D	E		Α	Yes	_ 1					
Ethylene glycol phenyl ether	EPE	40	D	E		Α	Yes	1					
Ethyl-3-ethoxypropionate	EEP	34	D	E		A	Yes	1					
2-Ethylhexanol	EHX		D	D		Α	Yes	_ 1					
Ethyl propionate	EPR	20	D	E		Α	Yes	1					
Ethyl toluene	ETE	34	D	С		Α	Yes	1					
Formamide		32	D	D		Α	Yes	1					
Furfuryl alcohol	FAM	10	D	E		Α	Yes	1					
Gasoline blending stocks: Alkylates	FAL	20 ²	D	E		Α	Yes	1					
Gasoline blending stocks: Reformates	GAK	33	D	A/C		Α	Yes	1					
Gasolines: Automotive (containing not over 4.23 grams load	GRF	33	D	A/C		Α	Yes	1		-			
	GAT	33	Þ	С		Α	Yes	1					
Basolines: Aviation (containing not over 4.86 grams of lead per pallon)	GAV	33	D	С		Α	Yes	1		_			
Gasolines: Cosinghead (natural)	GCS	33	D	A 10			-						
Sasolines: Polymer	GPL.	33	D	A/C		A	Yes	1					
Gasolines: Straight run	G6R	33		A/C		A	Yes	1					
Slycerine	GCR	202		A/C	_	A	Yes	1					
leptane (all isomers), see Alkanes (C6-C9) (all isomers)	HMX	31	-	E		A	Yes	1					
leptanoic acid	HEP	4		C		A	Yes	1					
leptanol (all isomers)	HTX			E		A	Yes	1					
leptene (all isomers)	HPX	20		D/E		A	Yes	1					
leptyl acetate	HPE	30		С		A	Yes	2					
fexane (all isomers), see Alkanes (C6-C9)	HXS	34		E		A	Yes	1					
exanoic acid	HXO	312		B/C		A	Yes	1					
lexanol	HXN	4		E		Α	Yes	1					
lexene (all isomers)	HEX	20		D		A	Yes	1					
exylene glycol	HXG	30		0		A	Yes	2					
ophorona	IPH			E		A	Yes	1					
et fuel: JP-4	JPF	-		E		A	Yes	1					
et fuel: JP-5 (kerosene, heavy)	JPV	-				A	Yes	1					
erosene	KRS)		A	Yes	1					
ethyl acetate	MTT		-)		A	Yes	1					
ethyl alcohol		ACTUAL TO SERVICE	D [A	Yes	1					
ethylamyl acetate	MAL		D (A	Yes	1					
ethylamyl alcohol	MAC	120	D 0		- 1	A	Yes	1					
ethyl amyl ketone	MAA		0 0	_		_	Yes	1					
ethyl tert-bulyl ether	MAK		D [Yes	1					
ethyl butyl ketone	MBK	-	0 0		_	_	Yes	1					
lethyl butyrate	MBU		D 0			_	Yes	4					
www This down	WIDU	34	0 0		1	4	Yes	1					

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Cargo Authority Attachment

Vessel Name: CBC 202 Official #: 1027570

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Shipyard: Trinity Marine Group

Serial #: C1-1203357

20-Jul-12

Cargo Identification						Conditions of Carriage						
Name		27.00						Recavery	or Garriage			
	Chem	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	App'd (Y or N)	VCS	Special Requirements in 46 CFR	Inap		
Methyl ethyl ketone	MEK	182	D	C	2.5				151 General and Mat's of	Perk		
Methyl heptyl ketone	MHK	18	D	D	-	A	Yes	1				
Methyl isobutyl ketone	MIK	182	D	C		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		Α	Yes	1				
Naphtha; Heavy	NAG	33	D	#		A	Yes	1				
Naphtha: Petroleum	PTN	33	D	_	-	Α	Yes	1				
Naphtha: Solvent	NSV	33	D	#	_	A	Yes	11				
Naphtha: Stoddard solvent	NSS	33	_	D	-	Α	Yes	1				
Naphtha: Varnish makers and painters (75%)	NVM	33	D	D		Α	Yes	1				
Nonane (all Isomers), see Alkanes (C6-C9)	NAX	31	D	C	_	A	Yes	1				
Nonene (all isomers)	NON		D	D		Α	Yes	1				
Nonyi alcohol (all Isomers)	NNS	30 20 ²	D	D		Α	Yes	2				
Octane (all isomers), see Alkanes (C6-C9)	OAX	31	D	E		A	Yes	1				
Octanoic acid (all isomers)	OAX	_	D	C		Α	Yes	1				
Octanol (all Isomers)		4	D	E		Α	Yes	1				
Octene (all labmers)	OCX	20 ²	D	E		Α	Yes	1				
Oil, fuel: No. 2	OTX	30	D	С		Α	Yes	2				
Oil, fuel: No. 2-D	OTW	33	D	D/E		Α	Yes	1				
Oll, fuel: No. 4	OTD	33	D	D		Α	Yes	1				
Oli, fuel: No. 5	OFR	33	D	D/E		Α	Yes	1				
Oli, fuel: No. 6	OFV	33	D	D/E		Α	Yes	1				
Oil, mlsc: Crude	OSX	33	D	E		Α	Yes	1		-		
Oll, misc: Diesel	OIL	33	D	C/D		Α	Yes	1				
Oll, misc: Gas, high pour	ODS	33	D	D/E		Α	Yes	1		-		
Oil, misc: Lubricating	OGP	33	D	E		Α	Yes	1				
Oll, misc: Residual	OLB	33	D	Е		A	Yes	1				
Oil, misc: Turbine	ORL	33	D	E		Α	Yes	1				
n-Pentyl propionate	OTB	33	D	E		Α	Yes	1				
alpha-Pinene	PPE	34	D	D		A	Yes	1				
peta-Pinene	PIO	30	D	D		A	Yes	1				
	PIP	30		D		A	Yes	1		_		
Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether	PAG	40		E		A	Yes	1				
Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether acetate	PAF	34		E .		A	Yes	1				
Polybutene	PLB	30		=	-	A	Yes	1				
olypropylene glycol	PGC	40				A	Yes					
so-Propyl acetate	IAC	34		2		A	Yes	1				
-Propyl acetate	PAT			3	_	A		1				
so-Propyl alcohol	IPA .		D			_	Yes	1				
-Propyl alcohol	PAL		D			A	Yes	1				
ropylbenzeno (all isomers)	PBY		D [A	Yes	1				
so-Propylcyclohexane	IPX		D [A	Yes	1				
ropylene glycol	PPG					A	Yes	1				
ropylene glycol methyl ether acetate	PGN		-			A	Yes	1				
ropylene tetramer	PTT					A .	Yes	1				
ulfolane	SFL		D [Α .	Yes	1				
etraethylene glycol	TTG		D E			A	Yes	1		-		
etrahydronaphthalene	THN		D E			A	Yes	1				

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Cargo Authority Attachment

Vessel Name: CBC 202 Official #: 1027570

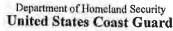
Shipyard: Trinity Marine Group

Serial #: C1-1:203357

20-Jul-12

Dated:

Page 7 of 8 Cargo Identification							Hull #: 1457 Conditions of Carriage					
Tricresyl phosphate (less than 1% of the ortho (somes)	TOL	32	D	С		Α	Yes	1	The first of the state of	Perio		
Themylbenzene	TCP	34	D	E		Α	Yeş	1		-		
Triethylene glycal	TEB	32	D	E		Α	Yes	1		-		
Triethyl phosphate	TEG	40	D	E		Α	Yes	1		_		
Trimethylbenzene (all isomers)	TPS	34	D	E		Α	Yes	1		_		
Trixylenyl phosphate	TRE	32	D_	{D}		Α	Yes	1				
Undecene	TRP	34	D	E		Α	Yes	1				
1-Undecyl alcohol	UDC	30	D	D/E		Α	Yes	1				
Kylenes (ortho-, meta-, para-)	UND	20	D	E		Α	Yes	1				
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	XLX	32	D	D		Α	Yes	1				





Cargo Authority Attachment

Vessel Name: CBC 202 Official #: 1027570

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Shipyard: Trinity Marine

Serial #: C1-1203357

20-Jul-12

Hull #: 1457

Explanation of terms & symbols used in the Table:

Cargo Identification

The proper shipping name as listed in 48 CFR Table 30,25-1, 46 CFR Table 151 D5, and 46 CFR Part 163 Table 2. The three letter designation essigned to the cargo in the Chemical Hazards Response information System (CHRIS) Manual, Certain mixtures of cargoes may not have a CHRIS Code assigned. Chem Code

Compatability Group No.

The cargo reactive group number assigned for compatibility determinations in 40 CFR Part 150 Tables I and II. In accordance with 46 CFR 150,130, the Person-in-Charge of the barge is responsible for onsuring that the compatibility requirements of 46 CFR Part 150 are met. Cargoes must be checked for compatibility using the figures, tables. 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 and compatibility information, contact Commandant (CG-3PSO-3), U.S. Coast Guard, 2100 Second Street, SW, Washington, DC 20593-0001. Telephone

Note 1 Note 2

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

Subchapter Subchapter D Subchapter O Note 3 The subchapter in Title 48 Code of Federal Regulations under which the cargo has been classified Those flammable and combustible liquids tisted in 45 CFR Teble 30.25-1. Those hazerdous cargoes listed in 46 CFR Teble 181.05 and 46 CFR Part 183 Teble 2. Those cargoes listed in 46 CFR Part 183 Teble 2 are non-regulated cargoes when carried in bulk on non-occangoing barges.

NA

The cargo classification assigned to each itemmable 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

A, B, C D, E Note 4 that grade of cargo that grade of cargo Flemmable liquid cargoes, as defined in 46 CFR 30-10.22. Fishmable liquid cargoes, as defined in 46 CFR 30-10.22.
Combustible liquid cargoes, as defined in 46 CFR 30-10.15.
The flammability/combusibility grade of these cargoes may very 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.
These subshapter Courgoes which are not classified as a flammable or combustible liquid.
No flammability/combustibility grade has been assigned yet, as the necessary flash point/vepor pressure data for such assignments are presently not available.

Hull Type ÑΑ

The required barge hull classification for carriage of the specified Subchapter O hexardous meternal pargo, see 46 CFR 161.10-1.

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

Designed to earry products of sufficient hazard to require a moderate degree of control. See 46 CFR 151.10-1(b)(4).

Not applicable to barges conflicated under Subchapter D.

Conditions of Carriage

Tank Group Vapor Recover Approved (Y or N)

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

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

Conditions of Carriage

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

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

VCS Category:

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

Category 1

(No additional VCS requirements above those for benzene, gosolines 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 155.120, 33 CFR 156.170, 46 CFR 35.35 and 46 CFR 39. The eargo 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

(Polymentzes) Polymentzation and residue build-up of these cargoes can adversely affect the vessal by fouling safety components and restricting vapor flow which could lead to cargo tank overpressuration. 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 tocal Officer in Chargo, Marine inspection. This is in addition to the requirements of Category 1. Please note that a meterial not normally considered a monomer can be a problem in detonation arrester.

Category 3

(Highly toxic) VCSs for these toxic cargoes cannot use a split 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 cargoon with a vapor pressure greater than 14,7 pala at 115 F must take into account increased vapor-air mixture densities and vapor growth rates as compared to Category 1 cargoes. Consult the Marine Safety Center's VCS Guidalines for further information. This

Category 6 Category 7

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

none

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