

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

Certification Date: 09 Nov 2022 09 Nov 2027 **Expiration Date:**

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

CBC 1396 1276787 Tank Barge Hull Material NEW ORLEANS, LA Steel UNITED STATES Delivery Date CANAL BARGE COMPANY INC CANAL BARGE COMPANY INC CANAL BARGE COMPANY INC CANAL BARGE COMPANY INC 1801 ENGINEER ROAD BELLE CHASSE, LA 70037 UNITED STATES This vessel must be manned with the following licensed and unlicensed Personnel. Included in which there must be 0 Certified Lifeboatmen, 0 Certified Tankermen, 0 HSC Type Rating, and 0 GMDSS Operators. This vessel must be manned with the following licensed and unlicensed Personnel. Included in which there must be 0 Certified Lifeboatmen, 0 Certified Tankermen, 0 HSC Type Rating, and 0 GMDSS Operators. This vessel must be manned with the following licensed and unlicensed Personnel. Included in which there must be 0 Certified Lifeboatmen, 0 Certified Tankermen, 0 HSC Type Rating, and 0 GMDSS Operators. Of Maters O Chief Mates O Reade Official See Fillow O Reade First Class Pillow O Able Seamen O Third Mates O Able Seamen O Mater First Class Pillow O Ordinary Seamen O Uccertified Engineers O Mater First Class Pillow O Todinary Seamen O Uccertified Engineers O Mater First Class Pillow O Todinary Seamen O Water First Class Pillow O Todinary Seamen O Third Assistant Engineers O Mater First Class Pillow O Todinary Seamen O Third Assistant Engineers O Mater First Class Pillow O Todinary Seamen O The Persons in crew, 0 Persons in addition to crew, and no Others. Total Persons allowed: This vessel may carry 0 Passengers, 0 Other Persons in crew, 0 Persons in addition to crew, and no Others. Total Persons allowed: This vessel is a been granted a fresh water service examination interval in accordance with 46 CFR 31.10-210. This vessel is a perated in salt water review of the mother in any 12 month period, the vessel material in writing as soon as this charge in activative shoorth in any 12 month perio	Vessel Name		Official N	lumber	IMO Num	ber	Call Sign	Service	
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Place Bull GALVESTON, TX Onlivery Date Seel List Date Read List Date Read List Date Read Tons R		Α		Hull Material	Hors	epower	Propulsion		
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New Orleans, LA							nr	R, USCG, b	ydirection
					0	fficer in Charge, M		rleans, LA	
					In	spection Zone			



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

Certification Date: 09 Nov 2022 Expiration Date: 09 Nov 2027

Certificate of Inspection

Vessel Name: CBC 1396

---Hull Exams---

Exam Type Next Exam Last Exam Prior Exam

DryDock 30Nov2027 09Nov2017

Internal Structure 30Nov2027 09Nov2022 09Nov2017

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

Authorization: Grade "A" and Lower and Specified Hazardous Cargoes.

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

11338 Barrels A Yes No No

Hazardous Bulk Solids Authority

Not Authorized

Loading Constraints - Structural

Tank Number	Max Cargo Weight per Tank (short tons)	Maximum Density (lbs/gal)
1C	581	14.07
2C	675	14.07
3C	604	14.07

Loading Constraints - Stability

Hull Type	Maximum Load (short tons)	Maximum Draft (ft/in)	Max Density (lbs/gal)	Route Description
l I	1447	9ft 0in	14.07	Rivers
l II	1555	9ft 6in	14.07	Rivers
н	1663	10ft 0in	13.32	Rivers
ш	1771	10ft 6in	11.58	Rivers
1	1447	9ft 0in	13.32	Lakes, Bays, and Sounds
п	1537	9ft 5in	13.32	Lakes, Bays, and Sounds

Conditions Of Carriage

Only those cargoes named in the vessel's Cargo Authority Attachment (CAA) serial no. C1-1703744 dated 04OCT2017 may be carried, and then only in the tanks indicated. When the vessel is carrying cargoes containing greater than 0.5% benzene, the person in charge is responsible for ensuring the provisions of 46 US Code of Federal Regulations Part 197, Subpart C are applied.

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

The maximum design density of cargo which may be filled to the tank top is 8.74 lbs/gal. Cargoes with higher densities, up to 14.07 lbs/gal, may be carried as slack loads, but shall not exceed the tank weight limits as listed below.

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

Tank maximum design working pressure is 3.50.



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

Certification Date: 09 Nov 2022 Expiration Date: 09 Nov 2027

Certificate of Inspection

Vessel Name: CBC 1396

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 C1-1701748 dated May 12,2017, and has been found acceptable for the collection of bulk liquid cargo vapors annotated with "Yes" in the CAA's VCS column of the vessel's CAA. The VCS system has been approved with a pressure side 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 Exa	ım		External Ex	am	
Tank Id	Previous	Last	Next	Previous	Last	Next
1C	-	09Nov2017	09Nov2027		-	-
2C		09Nov2017	09Nov2027	£	4	÷
3C	10 ± 01	09Nov2017	09Nov2027	.5	2	4
			Hydro Test			
Tank ld	Safety Valv	es	Previous	Last	Next	
1C	TOTAL		-	*	1.5	
2C			-	à.	193	
3C	2		G-		4-4	

--- Conditional Portable Fire Extinguisher Requirements---

Required Only During Transfer of Cargo or Operation of Barge Machinery

--- Fire Fighting Equipment ---

Fire Extinguishers - Hand portable and semi-portable

Quantity Class Type

2 40-B

END

^{*}Vapor Control Authorization*



Certificate of Inspection

Cargo Authority Attachment

Vessel Name: CBC 1396 Official #: 1276787

Shipyard: Southwest Shipyard

Serial #:

Dated:

C1-1703744

04-Oct-17

Hull #: 9774

Tank Group Information	Cargo I	dentificati	on		Cargo		Tanks		Cargo Environmental Transfer Control				Control		Control		Control		Control		Special Requirements			
Tnk Grp Tanks in Group	Density	Press.	Temp.	Hull Typ	Seg Tank	Туре	Vent	Gauge	Pipe Class	Cont	Tanks	Handling Space	Handling Protection Materials of Elec	Temp Cont										
A #1C,#2C,#3C	14.07	Atmos.	Elev	ı	1# 2#	Integral Gravily	PV	Closed	II	G-1	NR	NA	Portable	40-1(f)(1), .50-60, .50-70(a), .50-73,	55-1(b), (c), (e), (f), (g), (h), (j), 56-1(a), (b), (c), (d), (e), (f), (g), 58-1(a), (e),	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 tanks.

 NA means that the vessel does not have a cargo control space, and this requirement is not applied.
- 3. Under Electrical Hazard Class, NA means that the tank group is suitable only for those cargoes which have no electrical hazard class requirement. NR means that the vessel has no electrical equipment located in a hazardous location.

List of Authorized Cargoes

Cargo Identificatio	Conditions of Carriage									
		Compat						ecovery		
Name	Chem Code	Group No	Sub Chapter	Grade	Hull Type	Tank Group	App'd (Y or N)	VCS Category	Special Requirements in 46 CFR 151 General and Mat'ls of	Insp. Period
Authorized Subchapter O Cargoes										
Acetic acid	AAC	4 2	0	D	Ш	Α	Yes	1	50-73, 55-1(g)	G
Acetic anhydride	ACA	11	0	D	III	Α	Yes	1	50-73, 55-1(g)	G
Acetonitrile	ATN	37	0	С	111	Α	Yes	3	No	G
Acrylic acid	ACR	4 2	0	D	111	Α	Yes	2	50-70(a), 50-73, 50-81, 58-1(a)	G
Acrylonitrile	ACN	15 ²	0	С	П	Α	Yes	4	.50-70(a), .55-1(e)	G
Adiponitrile	ADN	37	0	Е	Н	Α	Yes	1	No	G
Alkylbenzenesulfonic acid (greater than 4%)	ABS	0 1,2	2 0	Е	111	Α	No	N/A	.50-73, 58-1(e)	G
Alkyl(C7-C9) nitrates	AKN	34 ²	0	NA	111	Α	No	N/A	50-81, 50-86	G
Aluminum sulfate solution	ASX	43 ²	0 3	NA	Ш	Α	No	N/A	.58-1(e)	G
Aminoethylethanolamine	AEE	8	0	E	III	Α	Yes	1	.55-1(b)	G
Ammonium bisulfite solution (70% or less)	ABX	43 ²	0	NA	Ш	Α	No	N/A	50-73, .56-1(a), (b), (c)	G
Ammonium hydroxide (28% or less NH3)	AMH	6	0	NA	III	Α	No	N/A	.56-1(a), (b), (c), (f), (g)	G
Anthracene oil (Coal tar fraction)	АНО	33	0	NA	п	Α	No	N/A	No	G
Benzene	BNZ	32	0	С	111	Α	Yes	1	,50-60	G
Benzene or hydrocarbon mixtures (having 10% Benzene or more)	ВНВ	32 ²	0	С	111	Α	Yes	1	.50-60	G
Benzene or hydrocarbon mixtures (containing Acetylene and 10% Benzene or more)	ВНА	32 ²	0	С	111	Α	Yes	1	,50-60, ,56-1(b), (d), (f), (g)	G
Benzene, Toluene, Xylene mixtures (10% Benzene or more)	BTX	32	0	B/C	Ш	Α	Yes	1	.50-60	G
Butyl acrylate (all isomers)	BAR	14	0	D	III	Α	Yes	2	50-70(a), 50-81(a), (b)	G
Butyl methacrylate	ВМН	14	0	D	III	Α	Yes	2	50-70(a), 50-81(a), (b)	G
Butyraldehyde (all isomers)	BAE	19	0	С	Ш	Α	Yes	1	.65-1(h)	G
Camphor oil (light)	CPO	18	0	D	Ш	Α	No	N/A	No	G
Carbon tetrachloride	СВТ	36	0	NA	111	Α	No	N/A	No	G
Caustic potash solution	CPS	5 ²	0	NA	111	Α	No	N/A	50-73, 55-1(j)	G
Caustic soda solution	CSS	5 ²	0	NA	111	Α	No	N/A	50-73, 55-1(J)	G
Chemical Oil (refined, containing phenolics)	COD	21	0	Е	11	Α	No	N/A	50-73	G
Chlorobenzene	CRB	36	0	D	III	Α	Yes	1	No	G
Chloroform	CRF	36	0	NA	III	A	Yes	3	No	G
Coal tar naphtha solvent	NCT	33	0	D	III	A	Yes	1	.50-73	G
Coal tar pitch (molten)	СТР	33	0	E	III	A	No	N/A	50-73	G
Creosote	CCW	21 ²	0	Е	III	Α	Yes	1	No	G
Cresols (all isomers)	CRS	21	0	E	III	Α	Yes	1	No	G
Cresylate spent caustic	CSC	5	0	NA	III	A	No	N/A	.50-73, .55-1(b)	G
Cresylic acid tar	CRX	21	0	E	III	Α	Yes	1	55-1(f)	G

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Serial #: C1-1703744

Dated: 04-Oct-17

Certificate of Inspection

Cargo Authority Attachment

Vessel Name: CBC 1396 Official #: 1276787

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Shipyard: Southwest Shipyard

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
Crotonaldehyde	СТА	19 ²	0	С		Α	Yes	4	55-1(h)	G
Crude hydrocarbon feedstock (containing Butyraldehydes and Ethylpropyl acrolein)	CHG	19 ²	0	С	Ш	Α	Yes	1	No	G
Cyclohexanone	ССН	18	0	D	III	Α	Yes	1	.56-1(a), (b)	G
Cyclohexanone, Cyclohexanol mixture	CYX	18 ²	0	E	III	A	Yes	1	.56-1 (b)	G
Cyclohexylamine	CHA	7	ō	D	III	A	Yes	1	,56-1(a), (b), (c), (g)	G
Cyclopentadiene, Styrene, Benzene mixture	CSB	30	0	D	111	A	Yes	1	.50-60, .56-1(b)	G
iso-Decyl acrylate	IAI	14	0	E	111	A	Yes	2	50-70(a), 50-81(a), (b), 55-1(c)	G
Dichlorobenzene (all isomers)	DBX	36	0	E	111	A	Yes	3	56-1(a), (b)	G
1,1-Dichloroethane	DCH	36	0	C	111	A	Yes	1	No	G
2,2'-Dichloroethyl ether	DEE	41	0	D	II	A	Yes	1	,55-1(f)	G
Dichloromethane	DCM		o	NA	III	A	Yes	5	No	G
2,4-Dichlorophenoxyacetic acid, diethanolamine salt solution	DDE	43	0	E	111	A	No	N/A	56-1(a), (b), (c), (g)	G
2,4-Dichlorophenoxyacetic acid, dimethylamine salt solution	DAD	0 1,2		A	III	A	No	N/A	56-1(a), (b), (c), (g)	G
2,4-Dichlorophenoxyacetic acid, trilsopropanolamine salt solution	DTI	43 ²	0	E	111	A	No	N/A	56-1(a), (b), (c), (g)	G
1,1-Dichloropropane	DPB	36	0	C	m	A	Yes	3	No	G
1,2-Dichloropropane	DPP	36	0	С	m	A	Yes	3	No	G
1,3-Dichloropropane	DPC	36	0	C	III	A	Yes	3	No	G
1,3-Dichloropropene	DPU	15	0	D		A	Yes	4	No	G
Dichloropropene, Dichloropropane mixtures	DMX	15	0	C	11	A	Yes	1	No	G
Diethanolamine	DEA	8	0	E	111				55-1(c)	G
Diethylamine	DEN	7	0	C		A	Yes	1	.55-1(c)	G
Diethylenetriamine	DET	7 2	0	E	111	Α Α	Yes	3	55-1(c)	G
Diisobutylamine	DBU	7	0			A	Yes	1	55-1(c)	G
Diisopropanolamine	DIP	8		D	111	A	Yes	3	55-1(c)	G
Diisopropylamine	DIA	7	0	E	Ш	Α .	Yes	1	.55-1(c)	G
N,N-Dimethylacetamide			0	С	11	A	Yes	3		
	DAC	10	0	E	111	Α	Yes	3	56-1(b)	G
Dimethylethanolamine Dimethylethanolamine	DMB	8	0	D	111	A	Yes	1	56-1(b), (c)	G
Dimethylformamide Diagramylamia	DMF	10	0	D	III	A	Yes	1	.55-1(e)	G
Di-n-propylamine	DNA	7	0	С	II.	Α	Yes	3	.55-1(c)	G
Dodecyldimethylamine, Tetradecyldimethylamine mixture	DOT	7	0	E	110	Α	No	N/A	.56-1(b)	G
Dodecyl diphenyl ether disulfonate solution	DOS	43	0	#	311	Α	No	N/A	No	G
EE Glycol Ether Mixture	EEG	40	0	D	III	A	No	N/A	No	G
Ethanolamine	MEA	В	0	Е	III	Α	Yes	1	.55-1(c)	G
Ethyl acrylate	EAC	14	0	С	III	Α	Yes	2	.50-70(a), .50-81(a), (b)	G
Ethylamine solution (72% or less)	EAN	7	0	A	111	A	No	N/A	55-1(b)	G
N-Ethylbutylamine	EBA	7	0	D	100	A	Yes	3	.55-1(b)	G
N-Ethylcyclohexylamine	ECC	7	0	D	III	A	Yes	1	.55-1(b)	G
Ethylene cyanohydrin	ETC	20	0	E	100	Α	Yes	1	No	G
Ethylenediamine	EDA	7 2	0	D	·W	Α	Yes	1	.55-1(c)	G
Ethylene dichloride	EDC	36 ²	0	С	111	Α	Yes	1_	No	G
Ethylene glycol hexyl ether	EGH	40	0	E	III	Α	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	Ш	Α	Yes	1	No	G
2-Ethylhexyl acrylate	EAI	14	0	Е	Ш	Α	Yes	2	50-70(a), 50-81(a), (b)	G
Ethyl methacrylate	ETM	14	0	D/E	111	Α	Yes	2	.50-70(a)	G
2-Ethyl-3-propylacrolein	EPA	19 ²	0	E	111	Α	Yes	11	No	G
Formaldehyde solution (37% to 50%)	FMS	19 ²	0	D/E	111	Α	Yes	1	,55-1(h)	G

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04-Oct-17

Certificate of Inspection

Cargo Authority Attachment

Vessel Name: CBC 1396 Official #: 1276787

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Shipyard: Southwest Shipyard

Cargo Identification						Conditions of Carriage							
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	Vapor F App'd (Y or N)	ecovery VCS Category	Special Requirements in 46 CFR 151 General and Mat'ls of Construction	Insp Period			
Furfural	FFA	19	0	D	III	A	Yes	1	,55-1(h)	G			
Glutaraldehyde solution (50% or less)	GTA	19	0	NA	m	A	No	N/A		G			
Glyoxylic Acid Solution (50% or less)	GAC	4	0	E	100	A	No	N/A		G			
Hexamethylenediamine solution	HMC		0	E	III	A	Yes	1	.55-1(c)	G			
Hexamethyleneimine	НМІ	7	0	C	II	A	Yes	1	56-1(b), (c)	G			
Hydrocarbon 5-9	HFN	31	0	C	 III	A	Yes	1	50-70(a), 50-81(a), (b)	G			
Isoprene	IPR	30	0	A	111	A	No	N/A	50-70(a), 50-81(a), (b)	G			
Isoprene, Pentadiene mixture	IPN	30	0	В	III	A	No	N/A	.50-70(a), .55-1(c)	G			
Kraft pulping liquors (free alkali content 3% or more)(including: Black, Green, or White liquor)	KPL	5	0	NA	111	A	No	N/A		G			
Mesityl oxide	MSO	18 ²	0	D	III	Α	Yes	1	No	G			
Methyl acrylate	MAM	14	0	С	III	Α	Yes	2	50-70(a), 50-81(a), (b)	G			
Methylcyclopentadiene dimer	MCK	30	0	С	III	Α	Yes	1	No	G			
Methyl diethanolamine	MDE	8	0	E	III	Α	Yes	1	56-1(b), (c)	G			
2-Methyl-5-ethylpyridine	MEP	9	0	E	Ш	Α	Yes	1	55-1(e)	G			
Methyl methacrylate	MMM	1 14	0	С	101	Α	Yes	2	50-70(a), 50-81(a), (b)	G			
2-Methylpyridine	MPR	9	0	D	111	Α	Yes	3	.55-1(c)	G			
alpha-Methylstyrene	MSR	30	0	D	III	Α	Yes	2	.50-70(a), .50-81(a), (b)	G			
Morpholine	MPL	7 2	0	D	111	A	Yes	1	.55-1(c)	G			
Naphthalene (molten)	NTM	32	0	C	III	A	Yes	1	No	G			
Nitroethane	NTE	42	0	D	11	A	No	N/A	50-81, 56-1(b)	G			
1- or 2-Nitropropane	NPM	42	0	D	111	A	Yes	1	50-81	G			
1,3-Pentadiene	PDE	30	0	A	III	A	No	N/A	50-70(a), 50-81	G			
Perchloroethylene	PER	36	0	NA	101	A	No	N/A	No	G			
Phthalic anhydride (molten)	PAN	11	0	E	101	Α	Yes	1	No	G			
Polyethylene polyamines	PEB	7 2		E	III	A	Yes	1	55-1(e)	G			
iso-Propanolamine	MPA	8	0	E	111	A	Yes	1	55-1(c)	G			
Propanolamine (iso-, n-)	PAX	8	0	E	III	A	Yes	1	.56-1(b), (c)	G			
Propionic acid	PNA	4	0	D	III	A	Yes	1	50-73, .55-1(g)	G			
iso-Propylamine	IPP	7	0	A	11	A	Yes	5	.55-1(c)	G			
Pyridine	PRD	9	0	C	III	A	Yes	1	.55-1(e)	G			
Sodium acetate, Glycol, Water mixture (3% or more Sodium Hydroxide)	SAP	5	0		III	A	No	N/A	.50-73, .55-1(j)	G			
Sodium aluminate solution (45% or less)	SAU	5	0	NA	III	Α	No	N/A	50-73, 56-1(a), (b), (c)	G			
Sodium chlorate solution (50% or less)	SDD	0 1	² O	NA	111	Α	No	N/A	50-73	G			
Sodium hypochlorite solution (20% or less)	SHQ	5	0	NA	101	Α	No	N/A	50-73, 56-1(a), (b)	G			
Sodium sulfide, hydrosulfide solution (H2S 15 ppm or less)	SSH	0 1	² O	NA	111	Α	Yes	1	.50-73, .55-1(b)	G			
Sodium sulfide, hydrosulfide solution (H2S greater than 15 ppm but less than 200 ppm)	SSI	0 1	² O	NA	Ш	Α	No	N/A	.50-73, .55-1(b)	G			
Sodium sulfide, hydrosulfide solution (H2S greater than 200 ppm)	SSJ	0 1	² O	NA	II	Α	No	N/A	50-73, 55-1(b)	G			
Sodium thiocyanate solution (56% or less)	STS	0 1	² 03	NA	Ш	Α	No	N/A	58-1(a)	G			
Styrene (crude)	STX	30	0	D	111	Α	Yes	2	No	G			
Styrene monomer	STY	30	0	D	Ш	Α	Yes	2	50-70(a), 50-81(a), (b)	G			
1,1,2,2-Tetrachloroethane	TEC	36	0	NA	.111	Α	No	N/A	No	G			
Tetraethylenepentamine	TTP	7	0	E	101	Α	Yes	111	55-1(c)	G			
Tetrahydrofuran	THF	41	0	С	III	Α	Yes	1	.50-70(b)	G			
Toluenediamine	TDA	9	0	E	П	Α	No	N/A	50-73, 56-1(a), (b), (c), (g)	G			
1,2,4-Trichlorobenzene	ТСВ	36	0	E	Ш	Α	Yes	1	No	G			
1,1,2-Trichloroethane	TCM	36	0	NA	Ш	Α	Yes	1	50-73, 56-1(a)	G			



Serial #: C1-1703744

Dated: 04-Oct-17

Certificate of Inspection

Cargo Authority Attachment

Vessel Name: CBC 1396 Official #: 1276787

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Shipyard: Southwest Shipyard

Cargo Identification	Cargo Identification												
Cargo identification	1			_	_	Conditions of Carriage							
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	App'd	VCS Category	Special Requirements in 46 CFR 151 General and Mat'ls of Construction	Insp. Period			
Trichloroethylene	TCL	36 ²	0	NA	III	А	Yes	1	No	G			
1,2,3-Trichloropropane	TCN	36	0	E	11	Α	Yes	3	50-73, 56-1(a)	G			
Triethanolamine	TEA	8 2	0	E	Ш	Α	Yes	1	55-1(b)	G			
Triethylamine	TEN	7	0	С	- 11	Α	Yes	3	55-1(e)	G			
Triethylenetetramine	TET	7 2	0	E	Ш	Α	Yes	1	55-1(b)	G			
Triphenylborane (10% or less), caustic soda solution	TPB	5	0	NA	III	Α	No	N/A		G			
Trisodium phosphate solution	TSP	5	0	NA	- 111	Α	No	N/A		G			
Urea, Ammonium nitrate solution (containing more than 2% NH3)	UAS	6	0	NA	111	A	No	N/A		G			
Vanillin black liquor (free alkali content, 3% or more). Vinyl acetate	VBL	5	0	NA	- 111	A	No	N/A		G			
Vinyl neodecanate	VAM	13 13	0	C E	III	A	Yes	2	.50-70(a), .50-81(a), (b) .50-70(a), .50-81(a), (b)	G G			
Vinyltoluene	VNT	13	0	D	111	A	No Yes	N/A 2	.50-70(a), .50-81, .56-1(a), (b), (c), (G			
Subchapter D Cargoes Authorized for Vapor Contro	٠. ا												
Acetone	ACT	18 ²	D	С		Α	Yes	1					
Acetophenone	ACP	18	D	E		Α		1					
Alcohol(C12-C16) poly(1-6)ethoxylates	APU						Yes						
Alcohol(C6-C17)(secondary) poly(7-12)ethoxylates		20	D	E		Α	Yes	1					
, , , , , , , , , , , , , , , , , , , ,	AEB	20	D	E		Α	Yes	1					
Amyl acetate (all isomers)	AEC	34	D	D		Α	Yes	1:					
Amyl alcohol (iso-, n-, sec-, primary)	AAI	20	D	D		Α	Yes	1					
Benzyl alcohol	BAL	21	D	Е		Α	Yes	4					
Brake fluid base mixtures (containing Poly(2-8)alkylene(C2-C3) glycols, Polyalkylene(C2-C10) glycol monoalkyl(C1-C4) ethers, and their borate esters)	BFX	20	D	E		Α	Yes	1					
Butyl acetate (all isomers)	BAX	34	D	D		Α	Yes	1					
Butyl alcohol (iso-)	IAL	20 2	D	D		A	Yes	1					
Butyl alcohol (n-)	BAN	20 2		D		A	Yes	1					
Butyl alcohol (sec-)	BAS	20 2		C		A	Yes	1					
Butyl alcohol (tert-)	BAT	20 2		С		A	Yes	1					
Butyl benzyl phthalate	BPH	34	D	E									
Butyl toluene						A	Yes	(1)//					
	BUE	32	D -	D -		A	Yes	1					
Caprolactam solutions	CLS	22	D	Е		Α	Yes	1					
Cyclohexane	CHX	31	D	С		Α	Yes	(1)					
Cyclohexanol	CHN	20	D	E		Α	Yes	1					
1,3-Cyclopentadiene dimer (molten)	CPD	30	D	D/E		Α	Yes	2					
p-Cymene	CMP	32	D	D		Α	Yes	1					
iso-Decaldehyde	IDA	19	D	Е		Α	Yes	1					
n-Decaldehyde	DAL	19	D	E		Α	Yes	- 1					
Decene	DCE	30	D	D		Α	Yes	1					
Decyl alcohol (all isomers)	DAX	20 2		E		A	Yes	1					
n-Decylbenzene, see Aikyl(C9+)benzenes	DBZ	32	D	E				ā					
Diacetone alcohol						A	Yes						
	DAA	20 2	D	D -		Α	Yes	1					
ortho-Dibutyl phthalate	DPA	34	D	E		Α	Yes	1					



Certificate of Inspection

Cargo Authority Attachment

Vessel Name: CBC 1396 Official #: 1276787

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Shipyard: Southwest Shipyard

Serial #: C1-1703744

04-Oct-17

Cargo Identification						Conditions of Carriage					
	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	App'd	lecovery VCS Category	Special Requirements in 46 CFR 151 General and Mat'ls of Construction	Insp. Period	
Diethylbenzene	DEB	32	D			А	Yes	1			
Diethylene glycol	DEG	40 ²	. D	E		Α	Yes	1			
Diisobutylene	DBL	30	D	С		Α	Yes	1			
Diisobutyl ketone	DIK	18	D	D		Α	Yes	1			
Diisopropylbenzene (all isomers)	DIX	32	D	E		Α	Yes	1			
Dimethyl phthalate	DTL	34	D	E		Α	Yes	1			
Dioctyl phthalate	DOP	34	D	Е		Α	Yes	1			
Dipentene	DPN	30	D	D		А	Yes	1			
Diphenyl	DIL	32	D	D/E		Α	Yes	1			
Diphenyl, Diphenyl ether mixtures	DDO	33	D	E		Α	Yes	1			
Diphenyl ether	DPE	41	D	{E}		Α	Yes	1			
Dipropylene glycol	DPG	40	D	E		A	Yes	1			
Distillates: Flashed feed stocks	DFF	33	D	Е		Α	Yes	1			
Distillates: Straight run	DSR	33	D	E		Α	Yes	1			
Dodecene (all isomers)	DOZ	30	D	D		Α	Yes	1			
Dodecylbenzene, see Alkyl(C9+)benzenes	DDB	32	D	Е		Α	Yes	1			
2-Ethoxyethyl acetate	EEA	34	D	D		A	Yes	1			
Ethoxy triglycol (crude)	ETG	40	D	E		A	Yes	1			
Ethyl acetate	ETA	34	D	С		A	Yes	1			
Ethyl acetoacetate	EAA	34	D	E		A	Yes	1			
Ethyl alcohol	EAL	20 2		С		A	Yes	1			
Ethylbenzene	ЕТВ	32	D	С		A	Yes	1			
Ethyl butanol	EBT	20	D	D		A	Yes	1			
Ethyl tert-butyl ether	EBE	41	D	С		A	Yes	1			
Ethyl butyrate	EBR	34	D	D		A	Yes	1			
Ethyl cyclohexane	ECY	31	D	D		A	Yes	1			
Ethylene glycol	EGL	20 2		E		A	Yes	1			
Ethylene glycol butyl ether acetate	EMA	34	D	E		A	Yes	1			
Ethylene glycol diacetate	EGY	34	D	E		A	Yes	1			
Ethylene glycol phenyl ether	EPE	40	D	E		A	Yes	1			
Ethyl-3-ethoxypropionate	EEP	34									
2-Ethylhexanol	EHX	20	D	E		A	Yes	1			
Ethyl propionate	EPR	34	D	C				1			
Ethyl toluene	ETE	32	D	D		Α Δ	Yes	1			
Formamide	FAM	10	D	E		ΑΑ	Yes	1			
Furfuryl alcohol	FAL	20 2	D	E		A	Yes				
Gasoline blending stocks: Alkylates	GAK	33	D	A/C		Α	Yes	1			
Gasoline blending stocks: Reformates	GRF	33	D			Α	Yes	1			
Gasolines: Automotive (containing not over 4.23 grams lead per gallon)	GAT	33	D	A/C C		A	Yes	1			
Gasolines: Aviation (containing not over 4.86 grams of lead per gallon)	GAV	33	D	С		Α	Yes	1			

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Coast Guard Dated:

Certificate of Inspection

Cargo Authority Attachment

Vessel Name: CBC 1396 Official #: 1276787

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Shipyard: Southwest Shipyard

Serial #: C1-1703744

04-Oct-17

Cargo Identifica	Conditions of Carriage									
Name	Chem Code	Compat Group No	Sub Chapler	Grade	Hull Type	Tank Group	Vapor I App'd	Recovery VCS Category	Special Requirements in 46 CFR	Insp. Period
Gasolines: Casinghead (natural)	GCS	33	D	A/C		A	Yes	1		-1
Gasolines: Polymer	GPL	33	D	A/C		Α	Yes			
Gasolines: Straight run	GSR	33	D	A/C		Α	Yes			
Glycerine	GCR	20	2 D	Е		Α	Yes			
Heptane (all isomers), see Alkanes (C6-C9) (all isomers)	HMX	31	D	С		Α	Yes	1		
Heptanoic acid	HEP	4	D	E		Α	Yes			
Heptanol (all isomers)	HTX	20	D	D/E		Α	Yes			
Heptene (all isomers)	HPX	30	D	С		Α	Yes			
Heptyl acetate	HPE	34	D	Ε		Α	Yes			
Hexane (all isomers), see Alkanes (C6-C9)	HXS	31 2	2 D	B/C		Α	Yes			
Hexanoic acid	НХО	4	D	E		Α	Yes			
Hexanol	HXN	20	D	D		Α	Yes			
Hexene (all isomers)	HEX	30	D	С		Α	Yes			
Hexylene glycol	HXG	20	D	E		Α	Yes			
Isophorone	IPH	18 2		E		Α	Yes			
Jet fuel: JP-4	JPF	33	D	E		A	Yes			
Jet fuel: JP-5 (kerosene, heavy)	JPV	33	D	D		Α	Yes			
Kerosene	KRS	33	D	D		A	Yes			
Methyl acetate	MTT	34	D	D		Α	Yes			
Methyl alcohol	MAL	20 2		С		Α	Yes			
Methylamyl acetate	MAC	34	D	D		Α	Yes			
Methylamyl alcohol	MAA	20	D	D		Α	Yes			
Methyl amyl ketone	MAK		D	 D		Α	Yes			
Methyl tert-butyl ether	MBE	41 2		С		Α	Yes			
Methyl butyl ketone	MBK	18	D	С		Α	Yes			
Methyl butyrate	MBU	34	D	С		A	Yes			
Methyl ethyl ketone	MEK	18 2	. D	С		Α	Yes			
Methyl heptyl ketone	MHK	18	D	D		Α	Yes			
Methyl isobutyl ketone	MIK	18 2	. D	С		Α	Yes			
Methyl naphthalene (molten)	MNA	32	D	E		Α	Yes			
Mineral spirits	MNS					A	Yes			
Myrcene	MRE		D	D		Α	Yes			
Naphtha: Heavy	NAG	33	D	#		A	Yes			
Naphtha: Petroleum	PTN	33	D	#		A	Yes			
Naphtha: Solvent	NSV	33	D	 D		A	Yes			
Naphtha: Stoddard solvent	NSS	33	D	D		A	Yes			
Naphtha: Varnish makers and painters (75%)	NVM		D	С		A	Yes			
Nonane (all isomers), see Alkanes (C6-C9)	NAX	31	D	D		A	Yes			
Nonene (all isomers)	NON	30	D	D		A	Yes			
Nonyl alcohol (all isomers)	NNS	20 2		Ε		A	Yes			
	11170						, 03	'		



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Certificate of Inspection

Cargo Authority Attachment

Vessel Name: CBC 1396 Official #: 1276787

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Shipyard: Southwest Shipyard

Cargo Identificat	ion					Conditions of Carriage						
	Chem	Compat Group	Sub		Hull	Tank	App'd	Recovery VCS	Special Requirements in 46 CFR 151 General and Mat'ls of	Insp.		
Name	Code	No	Chapter	Grade	Туре	Group	(Y or N)	Category	Construction	Period		
Nonyl phenol	NNP	21	D	Е		А	Yes	1				
Nonyl phenol poly(4+)ethoxylates	NPE	40	D	Е		Α	Yes	1				
Octane (all isomers), see Alkanes (C6-C9)	OAX		D	С		A	Yes	1				
Octanoic acid (all isomers)	OAY	4	D	Е		Α	Yes	1				
Octanol (all isomers)	ocx	20	2 D	Е		Α	Yes	1				
Octene (all isomers)	ОТХ	30	D	С		Α	Yes	2				
Oil, fuel: No. 2	OTW	33	D	D/E		Α	Yes	1				
Oil, fuel: No. 2-D	OTD	33	D	D		Α	Yes	4				
Oil, fuel: No. 4	OFR	33	D	D/E		Α	Yes	1				
Oil, fuel: No. 5	OFV	33	D	D/E		Α	Yes	1				
Oil, fuel: No. 6	OSX	33	D	E		Α	Yes	1				
Oil, misc: Crude	OIL	33	D	A/D		Α	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	E		Α	Yes	1				
Oil, misc: Residual	ORL	33	D	E		Α	Yes	1				
Oil, misc: Turbine	ОТВ	33	D	E		A	Yes	1				
Pentane (all isomers)	PTY	31	D	Α		Α	Yes	5				
Pentene (all isomers)	PTX	30	D	A		A	Yes	5				
n-Pentyl propionate	PPE	34	D	D		Α	Yes	1				
alpha-Pinene	PiO	30	D	D		Α	Yes	1				
beta-Pinene	PIP	30	D	D		Α	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	E		A	Yes	1				
Polybutene	PLB	30	D	E		A	Yes	1				
Polypropylene glycol	PGC	40	D	E		Α	Yes	1				
iso-Propyl acetate	IAC	34	D	С		Α	Yes	1				
n-Propyl acetate	PAT	34	D	С		A	Yes	1				
iso-Propyl alcohol	IPA	20	2 D	С		Α	Yes	1				
n-Propyl alcohol	PAL	20	2 D	С		Α	Yes	1				
Propylbenzene (all isomers)	PBY	32	D	D		Α	Yes	1				
iso-Propylcyclohexane	IPX	31	D	D		Α	Yes	1				
Propylene glycol	PPG	20	2 D	Е		Α	Yes	1				
Propylene glycol methyl ether acetate	PGN	34	D	D		Α	Yes	1				
Propylene tetramer	PTT	30	D	D		Α	Yes	1				
Sulfolane	SFL	39	D	E		Α	Yes	1				
Tetraethylene glycol	TTG	40	D	E		A	Yes	1				
Tetrahydronaphthalene	THN	32	D	E		Α	Yes	1				
Toluene	TOL	32	D	С		A	Yes	ાં				
Tricresyl phosphate (less than 1% of the ortho isomer)	TCP	34	D	E		A	Yes	ું લું				



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Dated: 04-Oct-17

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Cargo Authority Attachment

Vessel Name: CBC 1396 Official #: 1276787

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Shipyard: Southwest Shipyard

Cargo Ide	entification					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. Perio		
Triethylbenzene	TEB	32	D	Е		Α	Yes	1				
Triethylene glycol	TEG	40	D	Е		Α	Yes	1				
Triethyl phosphate	TPS	34	D	Е		Α	Yes	1				
Trimethylbenzene (all isomers)	TRE	32	D	{D}		Α	Yes	1				
Trixylenyl phosphate	TRP	34	D	E		Α	Yes	1				
Undecene	UDC	30	D	D/E		Α	Yes	1				
1-Undecyl alcohol	UND	20	D	Е		Α	Yes	1				
Xylenes (ortho-, meta-, para-)	XLX	32	D	D		Α	Yes	1				



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

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Vessel Name: CBC 1396 Official #: 1276787

Shipyard: Southwest Shi

Hull #: 9774

Explanation of terms & symbols used in the Table:

Cargo Identification

Compatability Group No

Name Chem Code

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. The three letter designation assigned to the cargo in the Chemical Hazards Response Information System (CHRIS) Manual Certain mixtures of cargoes may not have a CHRIS Code assigned.

The cargo reactive group number assigned for compatibility determinations in 46 CFR Part 150 Tables I and II. In accordance with 46 CFR 150.130, the Person-in-Charge of the barge is responsible for ensuring that the compatibility requirements of 46 CFR Part 150 are met. Cargoes must be checked for compatibility using the figures, tables

and appendices of 46 CFR 150 in conjunction with the assigned reactive group number.

Because of the very high reactivity or unusual conditions of carriage or potential compatibility problems, this product is not assigned to a specific group in the Compatibility Chart. For additional compatibility information, contact Commandant (CG-3PSO-3), U.S. Coast Guard, 2100 Second Street, SW, Washington, DC 20593-0001. Telephone

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

Subchapter Subchapter D Note 3

Note 1 Note 2

The subchapter in Title 46 Code of Federal Regulations under which the cargo has been classified

Those flammable and combustible liquids listed in 46 CFR Table 30.25-1.

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

NA

The cargo classification assigned to each flammable or combustible liquid. Grades inside of "{ }" indicate a provisional assignment based upon literature sources which were not verified by manufacturers data. The Person-in-Charge shall verify the cargo grade based on Manufacturers data and ensure that the barge is authorized for carriage of that grade of cargo. Flammable liquid cargoes, as defined in 46 CFR 30-10.22

A. B. C 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. Those subchapter O cargoes which are not classified as a flammable or combustible liquid.

No flammability/combustibility grade has been assigned yet, as the necessary flash point/vapor pressure data for such assignments are presently not available

Hull Type

The required barge hull classification for carriage of the specified Subchapter O hazardous material cargo, see 46 CFR 151 10-1.

Designed to carry products which require the maximum preventive measures to preclude the uncontrolled release of the cargo. See 46 CFR 151.10-1(b)(1) Designed to carry products which require significant preventive measures to preclude the uncontrolled release of cargo. See 46 CFR 151.10-1(b)(3). Designed to carry products of sufficient hazard to require a moderate degree of control. See 46 CFR 151.10-1(b)(4).

Not applicable to barges certificated under Subchapter D.

Conditions of Carriage

Tank Group Vapor 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 specified cargo.

Conditions of Carriage

Tank Group Vapor Recover 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 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 156.170, 46 CFR 35.35 and 46 CFR 39.30-16 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

(Polymerizas) Polymerization and residue build-up of these cargoes can adversely affect the vessel by fouling safety components and restricting vapor flow which could lead to cargo tank overpressurization. The vessel's owner must develop a method of ensuring all VCS safety components are functional and polymer build-up is not causing an unsafe condition due to increased pressure in the vapor control piping and cargo tanks. The method shall be acceptable to the local Officer in Charge, Marine Inspection. This is in addition to the requirements of Category 1. Please note that a material not normally considered a monomer can be a problem in detonation 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

Category 4

Category 5

(Polymerizes and highly toxic) Must comply with requirements of Categories 1, 2 and 3.

(High vapor pressure) VCS pressure drop calculations for cargoes with a vapor pressure greater than 14.7 psia at 115 F must take into account increased vapor-air mixture densities and vapor growth rates as compared to Category 1 cargoes. Consult the Marine Safety Center's VCS Guidelines for further information. This requirement is in addition to the requirements of Category 1

Category 6 Category 7

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

none

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



enar#: C Dated:

C1-1703744 04-Oct-17

Certificate of Inspection

Cargo Authority Attachment

Vessel Name: CBC 1396 Official #: 1276787 Shipyard: Southwest Shipyard

Iull #: 9774

Tar	nk Group Information	Cargo	dentificati	on		Cargo		Tanks		Carg Tran		Enviror Contro		Fire	Special Require	ments		
Tnk Grp	Tanks in Group	Densily	Press.	Temp.	Hull Typ	Seg	T	Vent	Gauge	Pipe Class	Cont	Tanks	Handling Space	Protection Provided	General	Materials of Construction	Elec Haz	Temp
Α :	#1C,#2C,#3C	14.07	Atmos.	Elev	ı	1ii 2ii	Integral Gravity	PV	Closed	II	G-1	NR	NA	Portable	40-1(f)(1), 50-60, 50-70(a), 50-73,	55-1(b), (c), (e), (f), (g), (h), (j), 56-1(a), (b), (c), (d), (e), (f), (g), 58-1(a), (e),	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 Identificatio	n					Conditions of Carriage						
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	App'd	ecovery VCS Category	Special Requirements in 46 CFR 151 General and Mat'ls of	Insp. Period		
Authorized Subchapter O Cargoes												
Acetic acid	AAC	4 2	0	D	III	Α	Yes	1	50-73, 55-1(g)	G		
Acetic anhydride	ACA	11	0	D	III	Α	Yes	1	.50-73, 55-1(g)	G		
Acetonitrile	ATN	37	0	С	111	Α	Yes	3	No	G		
Acrylic acid	ACR	4 2	0	D	111	Α	Yes	2	50-70(a), 50-73, 50-81, 58-1(a)	G		
Acrylonitrile	ACN	15 ²	0	С	- 11	Α	Yes	4	50-70(a), 55-1(e)	G		
Adiponitrile	ADN	37	0	Е	11	Α	Yes	1	No	G		
Alkylbenzenesulfonic acid (greater than 4%)	ABS	0 1,2	2 0	E	111	Α	No	N/A	.50-73, 58-1(e)	G		
Alkyl(C7-C9) nitrates	AKN	34 ²	0	NA	Ш	Α	No	N/A	.50-81, .50-86	G		
Aluminum sulfate solution	ASX	43 ²	0.3	NA	III	Α	No	N/A	.58-1(e)	G		
Aminoethylethanolamine	AEE	8	0	Е	III	Α	Yes	1	.55-1(b)	G		
Ammonium bisulfite solution (70% or less)	ABX	43 ²	0	NA	III	Α	No	N/A	50-73, .56-1(a), (b), (c)	G		
Ammonium hydroxide (28% or less NH3)	AMH	6	0	NA	III	Α	No	N/A	,56-1(a), (b), (c), (f), (g)	G		
Anthracene oil (Coal tar fraction)	AHO	33	0	NA	11	Α	No	N/A	No	G		
Benzene	BNZ	32	0	С	111	Α	Yes	1_	.50-60	G		
Benzene or hydrocarbon mixtures (having 10% Benzene or more)	внв	32 ²	0	С	111	Α	Yes	1	.50-60	G		
Benzene or hydrocarbon mixtures (containing Acetylene and 10% Benzene or more)	ВНА	32 ²	0	.C	111	Α	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	Α	Yes	1	50-60	G		
Butyl acrylate (all isomers)	BAR	14	0	D	III	Α	Yes	2	.50-70(a), 50-81(a), (b)	G		
Butyl methacrylate	вмн	14	0	D	III	Α	Yes	2	50-70(a), 50-81(a), (b)	G		
Butyraldehyde (all isomers)	BAE	19	0	С	. 111	Α	Yes	1	.55-1(h)	G		
Camphor oil (light)	CPO	18	0	D	П	Α	No	N/A	No	G		
Carbon tetrachloride	СВТ	36	0	NA	III	Α	No	N/A	No	G		
Caustic potash solution	CPS	5 ²	0	NA	III	Α	No	N/A	.50-73, 55-1(j)	G		
Caustic soda solution	CSS	5 ²	0	NA	m	Α	No	N/A	50-73, 55-1(j)	G		
Chemical Oil (refined, containing phenolics)	COD	21	0	Е	11.	Α	No	N/A	.50-73	G		
Chlorobenzene	CRB	36	0	D	111	Α	Yes	1	No	G		
Chloroform	CRF	36	0	NA	III	Α	Yes	3	No	G		
Coal tar naphtha solvent	NCT	33	0	D	III	Α	Yes	1	,50-73	G		
Coal tar pitch (molten)	CTP	33	0	Ε	III	Α	No	N/A	50-73	G		
Creosote	ccw	21 ²	0	Ę	III	Α	Yes	1	No	G		
Cresols (all isomers)	CRS	21	0	Е	III	Α	Yes	1	No	G		
Cresylate spent caustic	CSC	5	0	NA	III	Α	No	N/A	50-73, 55-1(b)	G		
Cresylic acid tar	CRX	21	0	Е	10	Α	Yes	1	.55-1(f)	G		



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Certificate of Inspection

Cargo Authority Attachment

Vessel Name: CBC 1396 Official #: 1276787

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Shipyard: Southwest Shipyard

Cargo Identificatio	n								tions 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
Crotonaldehyde	СТА	19 ²	0	С	П	Α	Yes	4	.55-1(h)	G
Crude hydrocarbon feedstock (containing Butyraldehydes and Ethylpropyl acrolein)	CHG	19 ²	0	С	Ш	Α	Yes	1	No	G
Cyclohexanone	ССН	18	0	D	III	Α	Yes	1	.56-1(a), (b)	G
Cyclohexanone, Cyclohexanol mixture	CYX	18 ²		E	Ш	Α	Yes		.56-1 (b)	G
Cyclohexylamine	CHA	7	0	D	III	Α	Yes		56-1(a), (b), (c), (g)	G
Cyclopentadiene, Styrene, Benzene mixture	CSB	30	0	D	HI	Α	Yes	1	50-60, 56-1(b)	G
iso-Decyl acrylate	IAI	14	0	E	111	A	Yes	2	.50-70(a), .50-81(a), (b), .55-1(c)	G
Dichlorobenzene (all isomers)	DBX	36	0	Е	111	Α	Yes	3	.56-1(a), (b)	G
1,1-Dichloroethane	DCH		0	С	111	Α	Yes		No	G
2,2'-Dichloroethyl ether	DEE	41	0	D	II	Α	Yes	1	55-1(f)	G
Dichloromethane	DCM		0	NA	III	A	Yes	5	No	G
2,4-Dichlorophenoxyacetic acid, diethanolamine salt solution	DDE	43	0	E	III	A	No	N/A	56-1(a), (b), (c), (g)	G
2,4-Dichlorophenoxyacetic acid, dimethylamine salt solution	DAD	0 1		A	III	A	No	N/A	56-1(a), (b), (c), (g)	G
2,4-Dichlorophenoxyacetic acid, triisopropanolamine salt solution	DTI	43 2	_	E	III	A	No	N/A	.56-1(a), (b), (c), (g)	G
1,1-Dichloropropane	DPB	36	0	c	Ш	A	Yes	3	No	G
1,2-Dichloropropane	DPP	36	0	C	101	A	Yes		No	G
1,3-Dichloropropane	DPC	36	0	C	III	A	Yes	3	No	G
1,3-Dichloropropene	DPU	15	0	D	11	A	Yes	4	No	G
Dichloropropene, Dichloropropane mixtures	DMX		0	С	11	A	Yes	1	No	G
Distribution of the state of th	DEA	8	0	E	10	A	Yes	1	55-1(c)	G
Diethylamine	DEN	7	0	C	111	A	Yes	3	55-1(c)	G
Diethylenetriamine	DET	7 2		E	111	A	Yes	1	55-1(c)	G
Diisobutylamine	DBU	7	0	D	101	A	Yes	3	.55-1(c)	G
Diisopropanolamine	DIP	8	0	E	111	A	Yes	1	55-1(c)	G
	DIA	7	0	c	II	A	Yes	3	55-1(c)	G
Diisopropylaminė	DAC	10	0	E	III	A	Yes	3	_56-1(b)	G
N,N-Dimethylacetamide	DMB	8	0	D	111	A	Yes	1	-56-1(b), (c)	G
Dimethylethanolamine Dimethylformamide	DMF	10	0		111	A	Yes	1	.55-1(e)	G
	DNA	7	0	C	11	A	Yes	3	55-1(c)	G
Di-n-propylamine	DOT	7	0	E	m	A	No	N/A	56-1(b)	G
Dodecyldimethylamine, Tetradecyldimethylamine mixture	DOS	43	0	#	11	A	No	N/A	No	G
Dodecyl diphenyl ether disulfonate solution	EEG	40	0	, D	III	A	No	N/A	No	G
EE Glycol Ether Mixture	MEA	8	0	E	111	A	Yes	1	.55-1(c)	G
Ethanolamine	EAC	14	0	C	III	A	Yes	2	50-70(a), 50-81(a), (b)	G
Ethyl acrylate		7	0		ñ				.55-1(b)	G
Ethylamine solution (72% or less)	EAN		_	A		A	No	N/A	55-1(b)	G
N-Ethylbutylamine	EBA	7	0	D D	101	A	Yes	1	55-1(b)	G
N-Ethylcyclohexylamine	ECC		0		111	Α	Yes		No No	G
Ethylene cyanohydrin	ETC	20	0	E	111	A	Yes	1	_55-1(c)	G
Ethylenediamine	EDA	7 2		D	III	Α	Yes	1	No	G
Ethylene dichloride	EDC	36 ²	0	С	171	Α .	Yes	1		G
Ethylene glycol hexyl ether	EGH	40	0	E	III	A	No	N/A	No	G
Ethylene glycol monoalkyl ethers	EGC	40	0	D/E		A	Yes	1	No	
Ethylene glycol propyl ether	EGP	40	0	E	III	Α .	Yes	1	No	G
2-Ethylhexyl acrylate	EAI	14	0	E	III	Α	Yes	2	.50-70(a), .50-81(a), (b)	G
Ethyl methacrylate	ETM	14	0	D/E	111	Α	Yes	2	.50-70(a)	G
2-Ethyl-3-propylacrolein	EPA	19 ²	0	E	111	Α	Yes	1	No	G
Formaldehyde solution (37% to 50%)	FMS	19 ²	0	D/E	Ш	Α	Yes	1	.55-1(h)	G



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Cargo Authority Attachment

Vessel Name: CBC 1396 Official #: 1276787

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Shipyard: Southwest Shipyard

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Cargo Identification								Condi	tions of Carriage	
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Huli Type	Tank Group	App'd	Recovery VCS Category	Special Requirements in 46 CFR 151 General and Mat'ls of Construction	Insp Period
Furfural	FFA	19	0	D	III	Α	Yes	1	,55-1(h)	G
Glutaraldehyde solution (50% or less)	GTA	19	0	NA	III	Α	No	N/A	No	G
Glyoxylic Acid Solution (50% or less)	GAC	4	0	Е	III	Α	No	N/A	.50-73, 50-81, 58-1(e)	G
Hexamethylenediamine solution	НМС	7	0	Е	111	Α	Yes	1	.55-1(c)	G
Hexamethyleneimine	НМІ	7	0	С	10	Α	Yes	1	56-1(b), (c)	G
Hydrocarbon 5-9	HFN	31	0	С	111	Α	Yes	1	.50-70(a), 50-81(a), (b)	G
Isoprene	IPR	30	0	A	111	Α	No	N/A	.50-70(a), 50-81(a), (b)	G
Isoprene, Pentadiene mixture	IPN	30	0	В	III	Α	No	N/A	50-70(a), 55-1(c)	G
Kraft pulping liquors (free alkali content 3% or more)(including: Black, Green, or White liquor)	KPL	5	0	NA	III	Α	No	N/A	.50-73, .56-1(a), (c), (g)	G
Mesityl oxide	MSO	18 ²	2 0	D	Ш	Α	Yes	1	No	G
Methyl acrylate	MAM	14	0	С	Ш	Α	Yes	2	50-70(a), 50-81(a), (b)	G
Methylcyclopentadiene dimer	MCK	30	0	С	Ш	Α	Yes	1	No	G
Methyl diethanolamine	MDE	8	0	Е	III	Α	Yes	1	56-1(b), (c)	G
2-Methyl-5-ethylpyridine	MEP	9	0	E	III	Α	Yes	1	55-1(e)	G
Methyl methacrylate	MMM	1 14	0	С	111	Α	Yes	2	50-70(a), 50-81(a), (b)	G
2-Methylpyridine	MPR	9	0	D	111	Α	Yes	3	55-1(c)	G
alpha-Methylstyrene	MSR	30	0	D	111	Α	Yes	2	50-70(a), 50-81(a), (b)	G
Morpholine	MPL	7 2	. 0	D	III	Α	Yes	1	55-1(c)	G
Naphthalene (molten)	NTM	32	0	С	Ш	Α	Yes	1	No	G
Nitroethane	NTE	42	0	D	П	Α	No	N/A	.50-81, .56-1(b)	G
1- or 2-Nitropropane	NPM	42	0	D	111	A	Yes	1	50-81	G
1,3-Pentadiene	PDE	30	0	A	III	A	No	N/A	50-70(a), 50-81	G
Perchloroethylene	PER	36	0	NA	111	A	No	N/A	No	G
Phthalic anhydride (molten)	PAN	11	0	E	111	Α	Yes	1	No	G
Polyethylene polyamines	PEB	7 2	0	E	III	A	Yes	1	55-1(e)	G
iso-Propanolamine	MPA	8	0	E	III	Α	Yes	1	55-1(c)	G
Propanolamine (iso-, n-)	PAX	8	0	E	III	A	Yes	1	56-1(b), (c)	G
Propionic acid	PNA	4	0	D	111	A	Yes	1	50-73, .55-1(g)	G
iso-Propylamine	IPP	7	0	A	11	A	Yes	5	55-1(c)	G
Pyridine	PRD	9	0	С	Ш	A	Yes	1	55-1(e)	G
Sodium acetate, Glycol, Water mixture (3% or more Sodium Hydroxide)	SAP	5	0		111	Α	No	N/A	50-73, .55-1(j)	G
Sodium aluminate solution (45% or less)	\$AU	5	0	NA	Ш	Α	No	N/A	50-73, 56-1(a), (b), (c)	G
Sodium chlorate solution (50% or less)	SDD	0 1	,2 0	NA	111	Α	No	N/A	50-73	G
Sodium hypochlorite solution (20% or less)	SHQ	5	0	NA	111	Α	No	N/A	_50-73, .56-1(a), (b)	G
Sodium sulfide, hydrosulfide solution (H2S 15 ppm or less)	SSH	0 1	,2 0	NA	III	Α	Yes	1	50-73, 55-1(b)	G
Sodium sulfide, hydrosulfide solution (H2S greater than 15 ppm but less than 200 ppm)	SSI	0 1		NA	Ш	Α	No	N/A	.50-73, .55-1(b)	G
Sodium sulfide, hydrosulfide solution (H2S greater than 200 ppm)	SSJ	0 1	.2 0	NA	- 11	Α	No	N/A	50-73, 55-1(b)	G
Sodium thiocyanate solution (56% or less)	STS	0 1	,2 0 3	NA	111	Α	No	N/A	.58-1(a)	G
Styrene (crude)	STX	30	0	D	111	Α	Yes	2	No	G
Styrene monomer	STY	30	0	D	111	Α	Yes	2	.50-70(a), .50-81(a), (b)	G
1,1,2,2-Tetrachloroethane	TEC	36	0	NA	m	Α	No	N/A	No	G
Tetraethylenepentamine	TTP	7	0	Е	III	Α	Yes	1	.55-1(c)	G
Tetrahydrofuran	THF	41	0	С	III	Α	Yes	1	.50-70(b)	G
Toluenediamine	TDA	9	0	E	0	Α	No	N/A	50-73, 56-1(a), (b), (c), (g)	G
1,2,4-Trichlorobenzene	тсв	36	0	Ε	101	Α	Yes	1	No	G
1,1,2-Trichloroethane	TCM	36	0	NA	III	Α	Yes	1	50-73, 56-1(a)	G

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



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Certificate of Inspection

Cargo Authority Attachment

Vessel Name: CBC 1396 Official #: 1276787

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Shipyard: Southwest Shipyard

Cargo Identification	1								tions 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. Perio
Trichloroethylene	TCL	36 ²	0	NA	111	Α	Yes	1	No	G
1,2,3-Trichloropropane	TCN	36	0	E	11	Α	Yes	3	50-73, 56-1(a)	G
Triethanolamine	TEA	8 ²	0	E	111	Α	Yes	1	55-1(b)	G
Triethylamine	TEN	7	0	С	11	Α	Yes	3	55-1(e)	G
Triethylenetetramine	TET	7 2	0	Ε	111	Α	Yes	1	55-1(b)	G
Triphenylborane (10% or less), caustic soda solution	TPB	5	0	NA	111	A	No	N/A		G
Trisodium phosphate solution	TSP	5	0	NA	111	Α	No	N/A		G
Urea, Ammonium nitrate solution (containing more than 2% NH3)	UAS	6	0	NA	LII	A	No	N/A		G
Vanillin black liquor (free alkali content, 3% or more).	VBL	5	0	NA	III	A	No	N/A		G
Vinyl acetate	VAM	13	0	С		Α .	Yes	2	50-70(a), .50-81(a), (b)	G
Vinyl neodecanate	VND	13	0	E D	111	A	No Yes	N/A 2	.50-70(a), 50-81(a), (b) _50-70(a), 50-81, 56-1(a), (b), (c), (G
∨inyltoluene Subchapter D Cargoes Authorized for Vapor Contro										-
Acetone	ACT	18 ²	D	С		Α	Yes	1		
Acetophenone	ACP	18	D	Е		Α	Yes	1		
Alcohol(C12-C16) poly(1-6)ethoxylates	APU	20	D	E		Α	Yes	1		
Alcohol(C6-C17)(secondary) poly(7-12)ethoxylates	AEB	20	D	E		Α	Yes	1		
Amyl acetate (all isomers)	AEC	34	D	D		Α	Yes	1		
Amyl alcohol (iso-, n-, sec-, primary)	IAA	20	D	D		Α	Yes	1		
Benzyl alcohol	BAL	21	D	Е		Α	Yes	1		
Brake fluid base mixtures (containing Poly(2-8)alkylene(C2-C3) glycols, Polyalkylene(C2-C10) glycol monoalkyl(C1-C4) ethers, and their borate esters)	BFX	20	D	E		Α	Yes	1		
Butyl acetate (all isomers)	BAX	34	D	D		Α	Yes	1		
Butyl alcohol (iso-)	IAL	20 ²	D	D		Α	Yes	1		
Butyl alcohol (n-)	BAN	20 ²	D	D		Α	Yes	1		
Butyl alcohol (sec-)	BAS	20 ²	D	С		Α	Yes	1		
Butyl alcohol (tert-)	BAT	20 ²	D	С		Α	Yes	1		
Butyl benzyl phthalate	BPH	34	D	E		Α	Yes	1		
Butyl toluene	BUE	32	D	D		A	Yes	1		
•										
Caprolactam solutions	CLS	22	D	E		Α	Yes	1		
Cyclohexane	CHX	31	D	С		Α	Yes	1		_
Cyclohexanol	CHN	20	D	Ε		Α	Yes	1		
1,3-Cyclopentadiene dimer (molten)	CPD	30	D	D/E		Α	Yes	2		
p-Cymene	CMP	32	D	D		Α	Yes	1		
iso-Decaldehyde	IDA	19	D	Е		Α	Yes	1		
n-Decaldehyde	DAL	19	D	E		Α	Yes	1		
Decene	DCE	30	D	D		Α	Yes	1		
Decyl alcohol (all isomers)	DAX	20 2		E		A	Yes	1		
n-Decylbenzene, see Alkyl(C9+)benzenes	DBZ	32	D	E		Α	Yes	1		
Diacetone alcohol	DAA	20 ²		D		A	Yes	1		
				-			100			



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Cargo Authority Attachment

Vessel Name: CBC 1396 Official #: 1276787

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Shipyard: Southwest Shipyard

Cargo Identification	7					Conditions of Carriage						
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Huli Type	Tank Group	App'd (Y or N)	Recovery VCS Category	Special Requirements in 46 CFR 151 General and Mat'ls of Construction	Insp. Period		
Diethylbenzene	DEB	32	D	D		Α	Yes	1				
Diethylene glycol	DEG	40	2 D	Е		Α	Yes	1				
Diisobutylene	DBL	30	D	С		Α	Yes	1				
Diisobutyl ketone	DIK	18	D	D		Α	Yes	1				
Diisopropylbenzene (all isomers)	DIX	32	D	Е		Α	Yes	1				
Dimethyl phthalate	DTL	34	D	Е		Α	Yes	1				
Dioctyl phthalate	DOP	34	D	Е		Α	Yes	1				
Dipentene	DPN	30	D	D		Α	Yes	1				
Diphenyl	DIL	32	D	D/E		Α	Yes	1				
Diphenyl, Diphenyl ether mixtures	DDO	33	D	E		Α	Yes	1				
Diphenyl ether	DPE	41	D	{E}		Α	Yes	1				
Dipropylene glycol	DPG	40	D	E		Α	Yes	1				
Distillates: Flashed feed stocks	DFF	33	D	Е		Α	Yes	1				
Distillates: Straight run	DSR	33	D	Е		Α	Yes	1				
Dodecene (all isomers)	DOZ	30	D	D		Α	Yes	1				
Dodecylbenzene, see Alkyl(C9+)benzenes	DDB	32	D	E		Α	Yes	1				
2-Ethoxyethyl acetate	EEA	34	D	D		Α	Yes	1				
Ethoxy triglycol (crude)	ETG	40	D	Е		Α	Yes	1				
Ethyl acetate	ETA	34	D	С		Α	Yes	1				
Ethyl acetoacetate	EAA	34	D	Е		Α	Yes	1				
Ethyl alcohol	EAL	20	2 D	С		Α	Yes	1				
Ethylbenzene	ETB	32	D	С		Α	Yes	1				
Ethyl butanol	EBT	20	D	D		Α	Yes	1				
Ethyl tert-butyl ether	EBE	41	D	С		Α	Yes	1				
Ethyl butyrate	EBR	34	D	D		Α	Yes					
Ethyl cyclohexane	ECY	31	D	D		Α	Yes	1				
Ethylene glycol	EGL	20		Е		Α	Yes	1				
Ethylene glycol butyl ether acetate	EMA	34	D	E		Α	Yes	1				
Ethylene glycol diacetate	EGY	34	D	E		A	Yes	1				
Ethylene glycol phenyl ether	EPE	40	D	Е		Α	Yes	1				
Ethyl-3-ethoxypropionate	EEP	34	D	D		A	Yes	1				
2-Ethylhexanol	EHX		D	E		Α	Yes	1				
Ethyl propionate	EPR	34	D	С		Α	Yes					
Ethyl toluene	ETE	32	D	D		A	Yes					
Formamide	FAM		D	E		A	Yes					
Furfuryl alcohol	FAL	20		E		A	Yes					
Gasoline blending stocks: Alkylates	GAK		D	A/C		A	Yes					
Gasoline blending stocks: Reformates	GRF	33	D	A/C		A	Yes					
Gasolines: Automotive (containing not over 4.23 grams lead per gallon)	GAT	33	D	c		A	Yes					
Gasolines: Aviation (containing not over 4.86 grams of lead per gallon		33	D	С		A	Yes	1				



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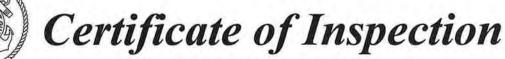
Shipyard: Southwest Shipyard

Cargo Identifica	ition					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		
Gasolines: Casinghead (natural)	gcs	33	D	A/C		Α	Yes	1				
Gasolines: Polymer	GPL	33	D	A/C		Α	Yes	1				
Gasolines: Straight run	GSR	33	D	A/C		Α	Yes	1				
Glycerine	GCR	20 ²	D	E		Α	Yes	1				
Heptane (all isomers), see Alkanes (C6-C9) (all isomers)	НМХ	31	D	С		Α	Yes	1				
Heptanoic acid	HEP	4	D	Е		Α	Yes	1				
Heptanol (all isomers)	НТХ	20	D	D/E		Α	Yes	1				
Heptene (all isomers)	HPX	30	D	С		Α	Yes	2				
Heptyl acetate	HPE	34	D	Е		Α	Yes	1				
Hexane (all isomers), see Alkanes (C6-C9)	HXS	31 ²	D	B/C		Α	Yes	1				
Hexanoic acid	нхо	4	D	E		Α	Yes	1				
Hexanol	HXN	20	D	D		Α	Yes	1				
Hexene (all isomers)	HEX	30	D	С		А	Yes	2				
Hexylene glycol	HXG	20	D	E		Α	Yes	1				
Isophorone	IPH	18 ²	D	Е		Α	Yes	1				
Jet fuel: JP-4	JPF	33	D	Е		Α	Yes	1				
Jet fuel: JP-5 (kerosene, heavy)	JPV	33	D	D		Α	Yes	1				
Kerosene	KRS	33	D	D		Α	Yes	1				
Methyl acetate	MTT	34	D	D		Α	Yes	1				
Methyl alcohol	MAL	20 ²	D	С		Α	Yes	1				
Methylamyl acetate	MAC	34	D	D		Α	Yes	1				
Methylamyl alcohol	MAA	20	D	D		Α	Yes	1				
Methyl amyl ketone	MAK	18	D	D		Α	Yes	1				
Methyl tert-butyl ether	MBE	41 ²	D	С		Α	Yes	1				
Methyl butyl ketone	МВК	18	D	С		Α	Yes	1				
Methyl butyrate	MBU	34	D	С		Α	Yes	1				
Methyl ethyl ketone	MEK	18 ²		С		Α	Yes	1				
Methyl heptyl ketone	MHK	18	D	D		Α	Yes	1				
Methyl isobutyl ketone	MIK	18 ²		С		Α	Yes	1				
Methyl naphthalene (molten)	MNA	32	D	E		Α	Yes	1				
Mineral spirits	MNS	33	D	D		Α	Yes	1				
Myrcene	MRE	30	D	D		Α	Yes	1				
Naphtha: Heavy	NAG	33	D	#		A	Yes	1				
Naphtha: Petroleum	PTN	33	D	#		A	Yes					
Naphtha: Solvent	NSV	33	D	 D		A	Yes	1				
Naphtha: Stoddard solvent	NSS	33	D	D		A	Yes	1				
Naphtha: Varnish makers and painters (75%)	NVM	33	D	С		A	Yes	1				
Nonane (all isomers), see Alkanes (C6-C9)	NAX	31	D	D		A	Yes					
Nonene (all isomers)	NON	30	D	D		A	Yes	2				
Nonyl alcohol (all isomers)	NNS	20 ²		E		A	Yes	1				
Nonyi alconol (ali isonicis)	Criri	20 -	U				168					

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Vessel Name: CBC 1396 Official #: 1276787

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Shipyard: Southwest Shipyard

Cargo Identifica	tion					Conditions of Carriage							
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	App'd (Y or N)	Recovery VCS Category	Special Requirements in 46 CFR 151 General and Mat'ls of Construction	Insp Period			
Nonyl phènol	NNP	21	Đ	Ε		Α	Yes	1					
Nonyl phenol poly(4+)ethoxylates	NPE	40	D	E		Α	Yes	1					
Octane (all isomers), see Alkanes (C6-C9)	OAX	31	D	С		Α	Yes	1					
Octanoic acid (all isomers)	OAY	4	D	Е		Α	Yes	1					
Octanol (all isomers)	OCX	20	2 D	Е		Α	Yes	1					
Octene (all isomers)	ОТХ	30	D	С		Α	Yes	2					
Oil, fuel: No. 2	OTW	33	D	D/E		Α	Yes	1					
Oil, fuel: No. 2-D	OTD	33	D	D		Α	Yes	1					
Oil, fuel: No. 4	OFR	33	D	D/E		Α	Yes	1					
Oil, fuel: No. 5	OFV	33	D	D/E		Α	Yes	1					
Oil, fuel: No. 6	osx	33	D	E		Α	Yes	1					
Oil, misc: Crude	OIL	33	D	A/D		Α	Yes	1					
Oil, misc: Diesel	ODS	33	D	D/E		Α	Yes	1					
Oil, misc: Gas, high pour	OGP	33	D	Ε		А	Yes	1					
Oil, misc: Lubricating	OLB	33	D	E		Α	Yes	1					
Oil, misc: Residual	ORL	33	D	Ε		Α	Yes	1					
Oil, misc: Turbine	ОТВ	33	D	E		Α	Yes	1					
Pentane (all isomers)	PTY	31	D	Α		Α	Yes	5					
Pentene (all isomers)	PTX	30	D	Α		Α	Yes	5					
n-Pentyl propionate	PPE	34	D	D		Α	Yes	1					
alpha-Pinene	PIO	30	D	D		Α	Yes	1					
beta-Pinene	PIP	30	D	D		Α	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		Α	Yes	1					
Polybutene	PLB	30	D	E		Α	Yes	1					
Polypropylene glycol	PGC	40	D	E		Α	Yes	1					
iso-Propyl acetate	IAC	34	D	С		Α	Yes	1					
n-Propyl acetate	PAT	34	D	С		Α	Yes	1					
iso-Propyl alcohol	IPA	20 2		С		Α	Yes						
n-Propyl alcohol	PAL	20 2		С		Α	Yes	1					
Propylbenzene (all isomers)	PBY	32	D	D		A	Yes	1					
iso-Propylcyclohexane	IPX	31	D	D		A	Yes	1					
Propylene glycol	PPG	20 2		E		A	Yes	1					
Propylene glycol methyl ether acetate	PGN	34	D	D		A	Yes	1					
Propylene tetramer	PTT	30	D	D		A	Yes	1					
Sulfolane	SFL	39	D	E		A	Yes	1					
Tetraethylene glycol	TTG	40	D	E			Yes	1					
	THN	32	D	E			Yes	1		-			
Tetrahydronaphthalene Toluene			D	C		A		1					
Toluene	TOL	32	U	C		Α	Yes						



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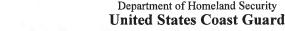
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Shipyard: Southwest Shipyard

Cargo Ide	entification					Conditions of Carriage						
Name	Chem	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. Perio		
Triethylbenzene	TEB	32	D	Е		Α	Yes	1				
Triethylene glycol	TEG	40	D	Е		Α	Yes	1				
Triethyl phosphate	TPS	34	D	Е		Α	Yes	1				
Trimethylbenzene (all isomers)	TRE	32	D	{D}		Α	Yes	1				
Trixylenyl phosphate	TRP	34	D	E		Α	Yes	1				
Undecene	UDC	30	D	D/E		Α	Yes	1				
1-Undecyl alcohol	UND	20	D	Ε		Α	Yes	1				
Xylenes (ortho-, meta-, para-)	XLX	32	D	D		Α	Yes	1				



Dated: 04-Oct-17



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Cargo Authority Attachment

Vessel Name: CBC 1396 Official #: 1276787

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Shipyard: Southwest Shi

Hull #: 9774

Explanation of terms & symbols used in the Table:

Cargo Identification

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 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.

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

Note 1

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

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

Subchapter Subchapter D Subchapter C Note 3

Note 4

The subchapter in Title 46 Code of Federal Regulations under which the cargo has been classified

Those flammable and combustible liquids listed in 46 CFR Table 30 25-1.

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 venified by manufacturers data. The Person-in-Charge shall verify the cargo grade based on Manufacturers data and ensure that the barge is authorized for camage of that grade of cargo

A, B, C

Flammable liquid cargoes, as defined in 46 CFR 30-10 22.

Combustible liquid cargoes, as defined in 46 CFR 30-10 15

The flammability/combustibility grade of these cargoes may vary depending upon the flashpoint and Reid vapor pressure The Person-in-Charge shall verify the

cargo grade based on Manufacturers data and ensure that the barge is authorized for carriage of that grade of cargo

Those subchapter O cargoes which are not classified as a flammable or combustible liquid.

No flammability/combustibility grade has been assigned yet as the necessary flash point/vapor pressure data for such assignments are presently not available.

Hull Type

NA

The required barge hull classification for carriage of the specified Subchapter O hazardous material cargo, see 46 CFR 151 10-1
Designed to carry products which require the maximum preventive measures to preclude the uncontrolled release of the cargo
See 46 CFR 151 10-1(b)(1)

Designed to carry products which require significant preventive measures to preclude the uncontrolled release of cargo See 46 CFR 151 10-1(b)(3) Designed to carry products of sufficeint hazard to require a moderate degree of control. See 46 CFR 151 10-1(b)(4)

Not applicable to barges certificated under Subchapter D

Conditions of Carriage

Tank Group 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 specified cargo

Conditions of Carriage

Vapor Recovery 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 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 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

Category 5

(High yapor pressure) VCS pressure drop calculations for cargoes with a vapor pressure greater than 14.7 psia at 115 F must take into account increased vapor-air mixture densities and vapor growth rates as compared to Category 1 cargoes Consult the Marine Safety Center's VCS Guidelines for further information This requirement is in addition to the requirements of Category 1

Category 6 Category 7 (High vapor pressure and highly toxic) Must comply with requirements of Categories 1, 3 and 5 (High vapor pressure and polymerizes) Must comply with requirements of Categories 1, 2 and 5

(Polymerizes and highly toxic) Must comply with requirements of Categories 1, 2 and 3.

none

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