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

Certification Date:	06 Aug 2020
Expiration Date:	06 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.

Vessel Name	Official Number	IMO Number	Call Sign	Service
CBC 28	970757			Tank Barge

Hailing Port	Hull Material	Horsepower	Propulsion
NEW ORLEANS, LA UNITED STATES	Steel		

Place Built	Delivery Date	Keel Laid Date	Gross Tons	Net Tons	DWT	Length
CARUTHERSVILLE, MO UNITED STATES	28Feb1991	23Jan1991	R-705 I-	R-705 I-		R-200.0 I-0

Owner
CANAL BARGE COMPANY INC
1801 Engineer Rd
Belle Chasse, LA 70037
UNITED STATES

Operator
CANAL BARGE COMPANY
1801 ENGINEERS 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.

0 Masters	0 Licensed Mates	0 Chief Engineers	0 Oilers
0 Chief Mates	0 First Class Pilots	0 First Assistant Engineers	
0 Second Mates	0 Radio Officers	0 Second Assistant Engineers	
0 Third Mates	0 Able Seamen	0 Third Assistant Engineers	
0 Master First Class Pilot	0 Ordinary Seamen	0 Licensed Engineers	
0 Mate First Class Pilots	0 Deckhands	0 Qualified Member Engineer	

In addition, this vessel may carry 0 Passengers, 0 Other Persons in crew, 0 Persons in addition to crew, and no Others. Total Persons allowed: 0

Route Permitted And Conditions Of Operation:

---Lakes, Bays, and Sounds---

This vessel has been granted a fresh water service examination interval as per 46 CFR 31.10-21(b)(2); if this vessel is operated in salt water more than six (6) months in any twelve (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 Inspection Program (TBSIP). Inspection activities aboard this barge shall be conducted in accordance with its Tank Barge Action Plan (TAP). Inspection issues concerning this barge should be directed to Sector New Orleans OCMI.

SEE NEXT PAGE FOR ADDITIONAL CERTIFICATE INFORMATION

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

Annual/Periodic/Re-Inspection

Date	Zone	A/P/R	Signature
27 Nov 21	Canal Barge	A	
27 Jan 22	MSU PITTSBURGH	P	
31 Oct 23	Hou Canal	A	

This certificate issued by:
Nicole D. Rodriguez CDR, USCG, By Direction
Officer in Charge, Marine Inspection
Sector Houston-Galveston
Inspection Zone

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Officer in Charge, Marine Inspection
Sector Houston-Galveston
Inspection Zone

OMB No. 2115-0517

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

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Certificate of Inspection

Vessel Name: CBC 28

---Hull Exams---

Exam Type	Next Exam	Last Exam	Prior Exam
DryDock	30Jul2025	30Jul2015	08Dec2008
Internal Structure	31Aug2025	03Aug2020	30Jul2015

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

Authorization: FLAMMABLE, COMBUSTIBLE AND SPECIFIED HAZARDOUS CARGOES

Total Capacity	Units	Highest Grade Type	Part151 Regulated	Part153 Regulated	Part154 Regulated
11054	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)
1	582	13.500
2	609	13.500
3	668	13.500

Loading Constraints - Stability

Hull Type	Maximum Load (short tons)	Maximum Draft (ft/in)	Max Density (lbs/gal)	Route Description
II	1769	10ft 3in	13.5	LBS+LC
III	1769	10ft 3in	13.5	LBS+LC
II	1769	10ft 3in	13.5	R
III	1769	10ft 3in	13.5	R

Conditions Of Carriage

Only those cargoes named in the vessel's Cargo Authority Attachment (CAA), serial #C2-0601182, dated 02MAY2006, may be carried and then only in the tanks indicated.

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

Vapor Control Authorization

In accordance with 46 CFR, Part 39, excluding part 39.4000, this vessel's vapor control system has been inspected to the plans approved by Marine Safety Center letters Serial # MC-20291 dated 10JUL1992, and Serial # C2-0601182 dated 02MAY2006, and found acceptable for collection of bulk liquid cargo vapors annotated with "Yes" in the CAA's VCS column.

Benzene Monitoring Program

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

Stability and Trim

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

Vessel is required to undergo mid-body gauging survey and engineering analysis in accordance with 46 CFR 31.10-21a at next scheduled dry dock examination

--- Inspection Status ---

Cargo Tanks

	Internal Exam			External Exam		
Tank Id	Previous	Last	Next	Previous	Last	Next
1	08Dec2008	30Jul2015	30Jul2025	-	-	-
2	08Dec2008	30Jul2015	30Jul2025	-	-	-
3	08Dec2008	30Jul2015	30Jul2025	-	-	-

		Hydro Test		
Tank Id	Safety Valves	Previous	Last	Next
1	-	-	-	-
2	-	-	-	-
3	-	-	-	-

---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	B-II

END

Department of Homeland Security
United States Coast Guard

Serial #: C2-0601182
Generated: 02-May-06

Certificate of Inspection

Cargo Authority Attachment

Vessel Name: **CBC 28**
Official #: 970757

Shipyard: ST LOUIS SHIPYARD
Hull #: 5435

46 CFR 151 Tank Group Characteristics

Tank Group Information		Cargo Identification			Hull Typ	Cargo Seg Tank	Tanks			Cargo Transfer	Environmental Control			Fire Protection Provided	Special Requirements		Elec Haz	Temp Cont
Tnk Grp	Tanks in Group	Density	Press.	Temp.			Type	Vent	Gauge	Pipe Class	Cont	Tanks	Handling Space		General	Materials of Construction		
A	#1, #2, #3	13.5	Atmos.	Amb.	II	1ii 2ii	Integral Gravity	PV	Closed	II	G-1	NR	NA	Portable	40-1(f)(1), .50-60, .50-70(a), .50-70(b), .50-73, .50-81(a), .50-81(b), .50-86,	55-1(b), (c), (e), (f), (h), (j), 56-1(a), (b), (c), (f), (g),	NR	Yes

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

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

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

List of Authorized Cargoes

Cargo Identification						Conditions of Carriage			
							Vapor Recovery		
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	App'd (Y or N)	VCS Category	Special Requirements in 46 CFR 151 General and Mat'ls of Construction
Authorized Subchapter O Cargoes									
Acetonitrile	ATN	37	O	C	III	A	No	N/A	No
Acrylonitrile	ACN	15 [2]	O	C	II	A	No	N/A	.50-70(a), .55-1(e)
Adiponitrile	ADN	37	O	E	II	A	No	N/A	No
Alkyl(C7-C9) nitrates	AKN	34 [2]	O	NA	III	A	No	N/A	.50-81, .50-86
Aminoethylethanolamine	AEE	8	O	E	III	A	No	N/A	.55-1(b)
Ammonium bisulfite solution (70% or less)	ABX	43 [2]	O	NA	III	A	No	N/A	.50-73, .56-1(a), (b), (c)
Ammonium hydroxide (28% or less NH3)	AMH	6	O	NA	III	A	No	N/A	.56-1(a), (b), (c), (f), (g)
Anthracene oil (Coal tar fraction)	AHO	33	O	NA	II	A	No	N/A	No
Benzene	BNZ	32	O	C	III	A	No	N/A	.50-60
Benzene or hydrocarbon mixtures (having 10% Benzene or more)	BHB	32 [2]	O	C	III	A	No	N/A	.50-60
Benzene, Toluene, Xylene mixtures (10% Benzene or more)	BTX	32	O	B/C	III	A	No	N/A	.50-60
Butyl acrylate (all isomers)	BAR	14	O	D	III	A	No	N/A	.50-70(a), .50-81(a), (b)
Butyl methacrylate	BMH	14	O	D	III	A	No	N/A	.50-70(a), .50-81(a), (b)
Butyraldehyde (all isomers)	BAE	19	O	C	III	A	No	N/A	.55-1(h)
Camphor oil (light)	CPO	18	O	D	II	A	No	N/A	No
Carbon tetrachloride	CBT	36	O	NA	III	A	No	N/A	No
Caustic potash solution	CPS	5 [2]	O	NA	III	A	No	N/A	.50-73, .55-1(j)
Caustic soda solution	CSS	5 [2]	O	NA	III	A	No	N/A	.50-73, .55-1(j)
Chemical Oil (refined, containing phenolics)	COD	21	O	E	II	A	No	N/A	.50-73
Chlorobenzene	CRB	36	O	D	III	A	No	N/A	No
Chloroform	CRF	36	O	E	III	A	No	N/A	No
Coal tar naphtha solvent	NCT	33	O	D	III	A	No	N/A	.50-73
Creosote	CCW	21 [2]	O	E	III	A	No	N/A	No
Cresols (all isomers)	CRS	21	O	E	III	A	No	N/A	No
Cresylate spent caustic	CSC	5	O	NA	III	A	No	N/A	.50-73, .55-1(b)
Cresylic acid tar	CRX		O	E	III	A	No	N/A	.55-1(f)
Crotonaldehyde	CTA	19 [2]	O	C	II	A	No	N/A	.55-1(h)
Crude hydrocarbon feedstock (containing Butyraldehydes and Ethylpropyl acrolein)	CHG		O	C	III	A	No	N/A	No
Cyclohexanone	CCH	18	O	D	III	A	No	N/A	.56-1(a), (b)
Cyclohexanone, Cyclohexanol mixture	CYX	18 [2]	O	E	III	A	No	N/A	.56-1 (b)
Cyclohexylamine	CHA	7	O	D	III	A	No	N/A	.56-1(a), (b), (c), (g)
Cyclopentadiene, Styrene, Benzene mixture	CSB	30	O	D	III	A	No	N/A	.50-60, .56-1(b)
iso-Decyl acrylate	IAI	14	O	E	III	A	No	N/A	.50-70(a), .50-81(a), (b), .55-1(c)
Dichlorobenzene (all isomers)	DBX	36	O	E	III	A	No	N/A	.56-1(a), (b)

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

Department of Homeland Security
United States Coast Guard

Serial #: C2-0601182
Generated: 02-May-06

Certificate of Inspection
Cargo Authority Attachment

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Official #: 970757

Shipyard: ST LOUIS SHIPYARD

Hull #: 5435

Cargo Identification						Conditions of Carriage			
							Vapor Recovery		
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	App'd (Y or N)	VCS Category	Special Requirements in 46 CFR 151 General and Mat'ls of Construction
1,1-Dichloroethane	DCH	36	O	C	III	A	No	N/A	No
2,2'-Dichloroethyl ether	DEE	41	O	D	II	A	No	N/A	.55-1(f)
Dichloromethane	DCM	36	O	NA	III	A	No	N/A	No
2,4-Dichlorophenoxyacetic acid, diethanolamine salt solution	DDE	43	O	E	III	A	No	N/A	.56-1(a), (b), (c), (g)
2,4-Dichlorophenoxyacetic acid, dimethylamine salt solution	DAD	0 [1,2]	O	A	III	A	No	N/A	.56-1(a), (b), (c), (g)
2,4-Dichlorophenoxyacetic acid, triisopropanolamine salt solution	DTI	43 [2]	O	E	III	A	No	N/A	.56-1(a), (b), (c), (g)
1,1-Dichloropropane	DPB	36	O	C	III	A	No	N/A	No
1,2-Dichloropropane	DPP	36	O	C	III	A	No	N/A	No
1,3-Dichloropropane	DPC	36	O	C	III	A	No	N/A	No
1,3-Dichloropropene	DPU	15	O	D	II	A	No	N/A	No
Dichloropropene, Dichloropropane mixtures	DMX	15	O	C	II	A	No	N/A	No
Diethanolamine	DEA	8	O	E	III	A	No	N/A	.55-1(c)
Diethylamine	DEN	7	O	C	III	A	No	N/A	.55-1(c)
Diethylenetriamine	DET	7 [2]	O	E	III	A	No	N/A	.55-1(c)
Diisobutylamine	DBU	7	O	D	III	A	No	N/A	.55-1(c)
Diisopropanolamine	DIP	8	O	E	III	A	No	N/A	.55-1(c)
Diisopropylamine	DIA	7	O	C	II	A	No	N/A	.55-1(c)
N,N-Dimethylacetamide	DAC	10	O	E	III	A	No	N/A	.56-1(b)
Dimethylethanolamine	DMB	8	O	D	III	A	No	N/A	.56-1(b), (c)
Dimethylformamide	DMF	10	O	D	III	A	No	N/A	.55-1(e)
Di-n-propylamine	DNA	7	O	C	II	A	No	N/A	.55-1(c)
Dodecyldimethylamine, Tetradecyldimethylamine mixture	DOT	7	O	E	III	A	No	N/A	.56-1(b)
Dodecyl diphenyl ether disulfonate solution	DOS	43	O	#	II	A	No	N/A	No
Ethanolamine	MEA	8	O	E	III	A	No	N/A	.55-1(c)
Ethyl acrylate	EAC	14	O	C	III	A	No	N/A	.50-70(a), .50-81(a), (b)
Ethylamine solution (72% or less)	EAN	7	O	A	II	A	No	N/A	.55-1(b)
N-Ethylbutylamine	EBA	7	O	D	III	A	No	N/A	.55-1(b)
N-Ethylcyclohexylamine	ECC	7	O	D	III	A	No	N/A	.55-1(b)
Ethylene cyanohydrin	ETC	20	O	E	III	A	No	N/A	No
Ethylenediamine	EDA	7 [2]	O	D	III	A	No	N/A	.55-1(c)
Ethylene dichloride	EDC	36 [2]	O	C	III	A	No	N/A	No
Ethylene glycol hexyl ether	EGH	40	O	E	III	A	No	N/A	No
Ethylene glycol monoalkyl ethers	EGC	40	O	D/E	III	A	No	N/A	No
Ethylene glycol propyl ether	EGP	40	O	E	III	A	No	N/A	No
2-Ethylhexyl acrylate	EAI	14	O	E	III	A	No	N/A	.50-70(a), .50-81(a), (b)
Ethyl methacrylate	ETM	14	O	D/E	III	A	No	N/A	.50-70(a)
2-Ethyl-3-propylacrolein	EPA	19 [2]	O	E	III	A	No	N/A	No
Formaldehyde solution (37% to 50%)	FMS	19 [2]	O	D/E	III	A	No	N/A	.55-1(h)
Furfural	FFA	19	O	E	III	A	No	N/A	.55-1(h)
Glutaraldehyde solution (50% or less)	GTA	19	O	NA	III	A	No	N/A	No
Hexamethylenediamine solution	HMC	7	O	E	III	A	No	N/A	.55-1(c)
Hexamethyleneimine	HMI	7	O	C	II	A	No	N/A	.56-1(b), (c)
Hydrocarbon 5-9	HFN		O	C	III	A	No	N/A	.50-70(a), .50-81(a), (b)
Isoprene	IPR	30	O	A	III	A	No	N/A	.50-70(a), .50-81(a), (b)
Isoprene, Pentadiene mixture	IPN		O	B	III	A	No	N/A	.50-70(a), .55-1(c)
Kraft pulping liquors (free alkali content 3% or more)(including: Black, Green, or White liquor)	KPL	5	O	NA	III	A	No	N/A	.50-73, .56-1(a), (c), (g)
Mesityl oxide	MSO	18 [2]	O	D	III	A	No	N/A	No
Methyl acrylate	MAM	14	O	C	III	A	No	N/A	.50-70(a), .50-81(a), (b)
Methylcyclopentadiene dimer	MCK	30	O	C	III	A	No	N/A	No

Department of Homeland Security
United States Coast Guard

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Certificate of Inspection
Cargo Authority Attachment

Vessel Name: **CBC 28**
Official #: 970757

Shipyard: ST LOUIS SHIPYARD
Hull #: 5435

Cargo Identification						Conditions of Carriage			
							Vapor Recovery		
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	App'd (Y or N)	VCS Category	Special Requirements in 46 CFR 151 General and Mat'ls of Construction
Methyl diethanolamine	MDE	8	O	E	III	A	No	N/A	.56-1(b), (c)
2-Methyl-5-ethylpyridine	MEP	9	O	E	III	A	No	N/A	.55-1(e)
Methyl methacrylate	MMM	14	O	C	III	A	No	N/A	.50-70(a), .50-81(a), (b)
2-Methylpyridine	MPR	9	O	D	III	A	No	N/A	.55-1(c)
alpha-Methylstyrene	MSR	30	O	D	III	A	No	N/A	.50-70(a), .50-81(a), (b)
Morpholine	MPL	7 [2]	O	D	III	A	No	N/A	.55-1(c)
1- or 2-Nitropropane	NPM	42	O	D	III	A	No	N/A	.50-81
1,3-Pentadiene	PDE	30	O	A	III	A	No	N/A	.50-70(a), .50-81
Perchloroethylene	PER	36	O	NA	III	A	No	N/A	No
Polyethylene polyamines	PEB	7 [2]	O	E	III	A	No	N/A	.55-1(e)
iso-Propanolamine	MPA	8	O	E	III	A	No	N/A	.55-1(c)
Propanolamine (iso-, n-)	PAX	8	O	E	III	A	No	N/A	.56-1(b), (c)
iso-Propylamine	IPP	7	O	A	II	A	No	N/A	.55-1(c)
Pyridine	PRD	9	O	C	III	A	No	N/A	.55-1(e)
Sodium acetate, Glycol, Water mixture (3% or more Sodium Hydroxide)	SAP		O		III	A	No	N/A	.50-73, .55-1(j)
Sodium aluminate solution (45% or less)	SAU	5	O	NA	III	A	No	N/A	.50-73, .56-1(a), (b), (c)
Sodium chlorate solution (50% or less)	SDD	0 [1,2]	O	NA	III	A	No	N/A	.50-73
Sodium hypochlorite solution (20% or less)	SHQ	5	O	NA	III	A	No	N/A	.50-73, .56-1(a), (b)
Sodium sulfide, hydrosulfide solution (H2S 15 ppm or less)	SSH	0 [1,2]	O	NA	III	A	No	N/A	.50-73, .55-1(b)
Sodium sulfide, hydrosulfide solution (H2S greater than 15 ppm but less than 200 ppm)	SSI	0 [1,2]	O	NA	III	A	No	N/A	.50-73, .55-1(b)
Sodium sulfide, hydrosulfide solution (H2S greater than 200 ppm)	SSJ	0 [1,2]	O	NA	II	A	No	N/A	.50-73, .55-1(b)
Styrene (crude)	STX		O	D	III	A	No	N/A	No
Styrene monomer	STY	30	O	D	III	A	No	N/A	.50-70(a), .50-81(a), (b)
1,1,2,2-Tetrachloroethane	TEC	36	O	NA	III	A	No	N/A	No
Tetraethylenepentamine	TTP	7	O	E	III	A	No	N/A	.55-1(c)
Tetrahydrofuran	THF	41	O	C	III	A	No	N/A	.50-70(b)
Toluenediamine	TDA	9	O	E	II	A	No	N/A	.50-73, .56-1(a), (b), (c), (g)
1,2,4-Trichlorobenzene	TCB	36	O	E	III	A	No	N/A	No
1,1,2-Trichloroethane	TCM	36	O	NA	III	A	No	N/A	.50-73, .56-1(a)
Trichloroethylene	TCL	36 [2]	O	NA	III	A	No	N/A	No
1,2,3-Trichloropropane	TCN	36	O	E	II	A	No	N/A	.50-73, .56-1(a)
Triethanolamine	TEA	8 [2]	O	E	III	A	No	N/A	.55-1(b)
Triethylamine	TEN	7	O	C	II	A	No	N/A	.55-1(e)
Triethylenetetramine	TET	7 [2]	O	E	III	A	No	N/A	.55-1(b)
Triphenylborane (10% or less), caustic soda solution	TPB	5	O	NA	III	A	No	N/A	.56-1(a), (b), (c)
Trisodium phosphate solution	TSP	5	O	NA	III	A	No	N/A	.50-73, .56-1(a), (c).
Urea, Ammonium nitrate solution (containing more than 2% NH3)	UAS	6	O	NA	III	A	No	N/A	.56-1(b)
Vanillin black liquor (free alkali content, 3% or more).	VBL	5	O	NA	III	A	No	N/A	.50-73, .56-1(a), (c), (g)
Vinyl acetate	VAM	13	O	C	III	A	No	N/A	.50-70(a), .50-81(a), (b)
Vinyl neodecanate	VND	13	O	E	III	A	No	N/A	.50-70(a), .50-81(a), (b)
Vinyltoluene	VNT	13	O	D	III	A	No	N/A	.50-70(a), .50-81, .56-1(a), (b), (c), (g)

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Certificate of Inspection
Cargo Authority Attachment

Vessel Name: **CBC 28**
Official #: 970757

Shipyard: ST LOUIS SHI
Hull #: 5435

Explanation of terms & symbols used in the Table:

Cargo Identification

Name	The proper shipping name as listed in 46 CFR Table 30.25-1, 46 CFR Table 151.05, and 46 CFR Part 153 Table 2.
Chem Code	The three letter designation assigned to the cargo in the Chemical Hazards Response Information System (CHRIS) Manual.
none	Certain mixtures of cargoes may not have a CHRIS Code assigned.
Compatability Group No.	The cargo reactive group number assigned for compatibility determinations in 46 CFR Part 150 Tables I and II. In accordance with 46 CFR 150.130, the Person-in-Charge of the barge is responsible for ensuring that the compatibility requirements of 46 CFR Part 150 are met. Cargoes must be checked for compatibility using the figures, tables, and appendices of 46 CFR 150 in conjunction with the assigned reactive group number.
Note 1	Because of the very high reactivity or unusual conditions of carriage or potential compatibility problems, this product is not assigned to a specific group in the Compatibility Chart. For additional compatibility information, contact Commandant (G-MSO-3), U.S. Coast Guard, 2100 Second Street, SW, Washington, DC 20593-0001. Telephone (202) 267-1217.
Note 2	See Appendix I to 46 CFR Part 150 - exceptions to the compatability chart.
Subchapter	The subchapter in Title 46 Code of Federal Regulations under which the cargo has been classified.
Subchapter D	Those flammable and combustible liquids listed in 46 CFR Table 30.25-1.
Subchapter O	Those hazardous cargoes listed in 46 CFR Table 151.05 and 46 CFR Part 153 Table 2.
Note 3	Those cargoes listed in 46 CFR Part 153 Table 2 are non-regulated cargoes when carried in bulk on non-oceangoing barges.
Grade	The cargo classification assigned to each flammable or combustible liquid. Grades inside of "{ }" indicate a provisional assignment based upon literature sources which were not verified by manufacturers data. The Person-in-Charge shall verify the cargo grade based on Manufacturers data and ensure that the barge is authorized for carriage of that grade of cargo.
A, B, C	Flammable liquid cargoes, as defined in 46 CFR 30-10.22.
D, E	Combustible liquid cargoes, as defined in 46 CFR 30-10.15.
Note 4	The flammability/combustibility grade of these cargoes may vary depending upon the flashpoint and Reid vapor pressure. The Person-in-Charge shall verify the cargo grade based on Manufacturers data and ensure that the barge is authorized for carriage of that grade of cargo.
NA	Those subchapter O cargoes which are not classified as a flammable or combustible liquid.
#	No flammability/combustibility grade has been assigned yet,as the necessary flash point/vapor pressure data for such assignments are presently not available.
Hull Type	The required barge hull classification for carriage of the specified Subchapter O hazardous material cargo, see 46 CFR 151.10-1.
I	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).
II	Designed to carry products which require significant preventive measures to preclude the uncontrolled release of cargo. See 46 CFR 151.10-1(b)(3).
III	Designed to carry products of sufficeint hazard to require a moderate degree of control. See 46 CFR 151.10-1(b)(4).
NA	Not applicable to barges certificated under Subchapter D.

Conditions of Carriage

Tank Group	The vessel's tank group (as defined in Section 4) which is authorized for carriage of the named cargo.
Vapor Recovery Approved (Y or N)	Yes: The vessel's VCS has been reviewed and approved by the MSC to control vapors of the specified cargo. No: The vessel's VCS has been reviewed and is not approved by the MSC to control vapors of the specified cargo.

Conditions of Carriage

Tank Group	The vessel's tank group (as defined under the "46 CFR Tank Group Characteristics" listed on page 1) which is authorized for carriage of the named cargo.
Vapor Recovery Approved (Y or N)	Yes: The vessel's VCS has been reviewed and approved by the MSC to control vapors of the specified cargo. No: The vessel's VCS has been reviewed and is not approved by the MSC to control vapors of the specified cargo.
VCS Category:	The specified cargo's provisional classification for vapor control systems.
Category 1	(No additional VCS requirements above those for benzene, gasolines and crude oil) All requirements applying to the handling of oil and hazardous materials in Titles 33 and 46 Code of Federal Regulations (CFR) apply to these cargoes. Those specifically dealing with vapor control systems are in 33 CFR 155.750, 33 CFR 156.120, 33 CFR 156.170, 46 CFR 35.35 and 46 CFR 39. The cargo tank venting system calculations (46 CFR 39.20-11) and the pressure drop calculations (46 CFR 39.30-1(b)) must use appropriate friction factors, vapor densities and vapor growth rates.
Category 2	(Polymerizes) Polymerization and residue build-up of these cargoes can adversely affect the vessel by fouling safety componenets and restricting vapor flow which could lead to cargo tank overpressurization. The vessel's owner must develop a method of ensuring all VCS safety components are functional and polymer build-up is not causing an unsafe condition due to increased pressure in the vapor control piping and cargo tanks. The method shall be acceptable to the local Officer in Charge, Marine Inspection. This is in addition to the requirements of Category 1. Please note that a material not normally considered a monomer can be a problem in detonation arrester.
Category 3	(Highly toxic) VCSs for these toxic cargoes cannot use a spill valve or rupture disk as the primary means to meet the overfill protection requirement of 46 CFR 39.20-9. This requirement is in addition to the requirements of Category 1.
Category 4	(Polymerizes and highly toxic) Must comply with requirements of Categories 1, 2 and 3.
Category 5	(High vapor pressure) VCS pressure drop calculations for cargoes with a vapor pressure greater than 14.7 psia at 115 F must take into account increased vapor-air mixture densities and vapor growth rates as compared to Category 1cargoes. Consult the Marine Safety Center's VCS Guidelines for further information. This requirement is in addition to the requirements of Category 1.
Category 6	(High vapor pressure and highly toxic) Must comply with requirements of Categories 1, 3 and 5.
Category 7	(High vapor pressure and polymerizes) Must comply with requirements of Categories 1, 2 and 5.
none	The cargo has not been evaluated/classified for use in vapor control systems.