

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

Certification Date: 03 Feb 2020 Expiration Date: 03 Feb 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

HFL 449

1300074

Tank Barge

Hailing Port

Hull Material

Horsepower

Propulsion

NASHVILLE, TN

Steel

UNITED STATES

Place Built

Delivery Date

Keel Laid Date

Gross Tons

Net Tons

DWT

Length

1-0

BELLE CHASSE, LA

03Feb2020 19Aug2019

R-1686

R-1686

' '

R-297.5

UNITED STATES

Owner

HINES FURLONG LINE INC 4017 Hillsboro Pike, Suite 402 PO Box 150809 Nashville, TN 37215 UNITED STATES Operator

FLORIDA MARINE LLC 2360 Fifth Street Mandeville, LA 70471 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---

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 in accordance with 46 CFR Table 31.10-21(b); 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 and the cognizant OCMI notified in writing as soon as this change in status occurs.

SEE NEXT PAGE FOR ADDITIONAL CERTIFICATE INFORMATION

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

Date	Zone	A/P/R	Signature

This certificate issued by:

Officer in Charge, Marine Inspection

Sector New Orleans

Inspection Zone



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

Certification Date: 03 Feb 2020 03 Feb 2025 **Expiration Date:**

Certificate of Inspection

Vessel Name: HFL 449

---Hull Exams---

Exam Type

Next Exam

Last Exam

Prior Exam

DryDock

03Feb2030

03Feb2020

Internal Structure

03Feb2025

03Feb2020

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

Grade "A" AND LOWER AND SPECIFIED HAZARDOUS CARGOES

Total Capacity

Units

Highest Grade Type Part151 Regulated Part153 Regulated Part154 Regulated

30523

Barrels

Α

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 P/S

776

13.74

2 P/S

792

13.74

3 P/S

817

13.74

Loading Constraints - Stability

Hull Type

Maximum Load

Maximum Draft

Max Density

Route Description

Ш

(short tons)

(ft/in)

(lbs/gal)

13.74

R, LBS

Ш

3553 4544 9ft 6in 11ft 6in

13.74

R, LBS

Conditions Of Carriage

Only those specified hazardous cargoes named in the vessel's Cargo Authority Attachment (CAA), Serial C1-1901306, dated 01MAY2019 and Grade "A" and lower cargoes may be carried, and then only in the tanks indicated.

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 figures, tables and appendices of 46 CFR 150 in conjunction with the compatibility group numbers from the "COMPAT GRP" column 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.

Stability and Trim

Cargo tanks must be loaded uniformly whenever a 46 CFR Subchapter "O" cargo is carried; for trim purposes, the weight of cargo in each tank may exceed the uniformly loaded tank cargo weight by at most 5 percent.

The maximum density of cargo which may be filled to the tank top is 8.74 lbs/gal. Cargoes with higher densities, up to 13.74 lbs/gal, may be carried as slack loads, but shall not exceed the tank weight limits as listed above.

Vapor Control Authorization

In accordance with 46 CFR 39, excluding 46 CFR 39.4000, this vessel's vapor control system has been inspected to the plans approved by Marine Safety Center letter Serial C1-1901306 dated 01MAY2019 and the list of authorized cargoes on the CAA, Serial C1-1901306 dated May0119 and found acceptable for collection of bulk liquid cargo vapors annotated with "Yes" in the CAA's VCS column.



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

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Certificate of Inspection

Vessel Name: HFL 449

In accordance with 46 CFR Part 39.1017 and 39.5001(e) this vessel's VCS has been evaluated andapproved for multi-breasted tandem loading with other vessels specifically approved to tandem load with this vessel.

--- Inspection Status ---

Fuel Tanks

I	2	Internal Exam	inations					
	Tank ID	Previous	Last	Next				
	Stern	-	12Nov2019	(#Y			,	
	Cargo Tanks							
I		Internal Exam			External Exan	า		
1	Tank Id	Previous	Last	Next	Previous	Last	Next	
	1 P/S	*	03Feb2020	03Feb2030	7	Ē	-	
	2 P/S	2	03Feb2020	03Feb2030	3	÷	333	
	3 P/S	*	03Feb2020	03Feb2030	2	<u>u</u>	-	
				Hydro Test				
	Tank Id	Safety Valves	5	Previous	Last	Next		
	1 P/S			(m)	963	*		

--- Conditional Portable Fire Extinguisher Requirements---

Required Only During Transfer of Cargo or Operation of Barge Machinery

END

2 P/S 3 P/S

Serial #: Dated:

C1-1901306

01-May-19



Certificate of Inspection

Cargo Authority Attachment

Vessel Name: HFL 449 Official #: 1300074 Shipyard: C & C Marine

Hull #: 334

46 CFR 151 Tank	Group (Chara	cteris	tics													
Tank Group Information	Cargo I	dentificat	ion		0		Tanks		Carg Tran		Environ Control		Fire	Special Require	ments		
Tnk Grp Tanks in Group	Density	Press,	Temp.	Hull Typ	Cargo Seg Tank	Туре	Vent	Gauge	Pipe Class	Conl	Tanks	Handling Space	Protection Provided	General	Materials of Construction	Elec	Temp Cont
A #1P/S, #2P/S, #3P/S	13.74	Atmos.	Amb	11	1ii 2ii	Integral Gravity	PV	Closed	- 11	G-1	NR	NA	Portable	.50-60, .50-70(a), .50-70(b), .50-73,	55-1(b), (c), (e), (f), (h), (j), 56-1(a), (b), (c), (d), (e), (f), (g)	NR	No

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

List of Authorized Cargoes

Cargo Identificatio		Conditions of Carriage								
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	Vapor Re App'd (Y or N)	VCS	Special Requirements in 46 CFR 151 General and Mat'ls of	Insp. Period
Authorized Subchapter O Cargoes										
Sodium acetate solution	SAN	34	D/O 3	#		Α	No	N/A		
Acetonitrile	ATN	37	0	С	Ш	Α	Yes	3	No	G
Acrylonitrile	ACN	15 ²	0	С	11	Α	Yes	4	50-70(a), 55-1(e)	G
Adiponitrile	ADN	37	0	Ε	- 11	Α	Yes	1	No	G
Alkyl (C7-C9) nitrates	AKN	34 2	0	NA	III	Α	No	N/A	50-81, 50-86	G
Aminoethyl ethanolamine	AEE	8	0	Е	111	Α	Yes	1	55-1(b)	G
Ammonium bisulfite solution (70% or less)	ABX	43 2	0	NA	H	Α	No	N/A	50-73, 56-1(a), (b), (c)	G
Ammonium hydroxide (28% or less NH3)	AMH	6	0	NA	111	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	Ш	Α	Yes	1	.50-60	G
Benzene or hydrocarbon mixtures (containing Acetylene and 10% Benzene or more)	вна	32 ²	0	С	111	А	Yes	1	.50-60, .56-1(b), (d), (f), (g)	G
Benzene, Toluene, Xylene mixtures (10% Benzene or more)	BTX	32	0	B/C	III	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	BMH	14	0	D	H	Α	Yes	2	50-70(a), 50-81(a), (b)	G
Butyraldehyde (all isomers)	BAE	19	0	С	III	Α	Yes	1	55-1(h)	G
Camphor oil (light)	CPO	18	0	D	- 11	А	No	N/A	No	G
Carbon tetrachloride	CBT	36	0	NA	III	А	Yes	3	No	G
Caustic potash solution	CPS	5 ²	0	NA	H	Α	No	N/A	50-73, 55-1(j)	G
Caustic soda solution	CSS	5 2	0	NA	III	А	No	N/A	50-73, 55-1(j)	G
Chlorobenzene	CRB	36	0	D	111	Α	Yes	1	No	G
Chloroform	CRF	36	0	NA	H	Α	Yes	3	No	G
Coal tar naphtha solvent	NCT	33	0	D	H1	Α	Yes	1	50-73	G
Creosote	CCV	V 21 2	0	Е	111	А	Yes	1	No	G
Cresols (all isomers)	CRS	21	0	Е	- 111	Α	Yes	- (1	No	G.
Cresylate spent caustic	CSC	5	0	NA	Ш	Α	No	N/A	50-73, (55-1(b)	G
Cresylic acid tar	CRX	21	0	Е	- 111	Α	Yes	1	55-1(f)	G
Crotonaldehyde	СТА	19 2	0	С	11	Α	Yes	4	55-1(h)	G
Crude hydrocarbon feedstock (containing Butyraldehydes and Ethylpropyl acrolein)	CHO	19 2	0	С	Ш	Α	Yes	1	No	G
Cyclohexanone	CCF	l 18	0	D	III	А	Yes	1	56-1(a), (b)	(3)
Cyclohexanone, Cyclohexanol mixture	CYX	18 2	0	E	101	А	Yes	1	56-1 (b)	G
Cyclohexylamine	CHA	7	0	D	111	А	Yes	1	56-1(a), (b), (c), (g)	G

^{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.



Serial #: C1-1901306

Dated: 01-May-19

Certificate of Inspection

Cargo Authority Attachment

Vessel Name: HFL 449 Official #: 1300074

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Shipyard: C & C Marine

Cargo Identification							(Condi	tions of Carriage	
Name	Chem Code	Compat Group No	Sub Chapler	Grade	Hull Type	Tank Group	App'd	VCS	Special Requirements in 46 CFR 151 General and Mat'ls of Construction	Insp. Period

Cyclopentadiene, Styrene, Benzene mixture	CSB	30	0	D	111	Α	Yes	1	50-60, 56-1(b)	G
so-Decyl acrylate	IAI	14	0	Е	111	Α	Yes	2	50-70(a), 50-81(a), (b), 55-1(c)	G
Dichlorobenzene (all isomers)	DBX	36	0	Е	Ш	Α	Yes	3	,56-1(a), (b)	G
,1-Dichloroethane	DCH	36	0	С	Ш	Α	Yes	1	No	G
,2'-Dichloroethyl ether	DEE	41	0	D	- 11	Α	Yes	1	55-1(f)	G
Dichloromethane	DCM	36	0	NA	Ш	Α	Yes	5	No	G
,4-Dichlorophenoxyacetic acid, diethanolamine salt solution	DDE	43	0	Е	Ш	Α	No	N/A	56-1(a), (b), (c), (g)	G
,4-Dichlorophenoxyacetic acid, dimethylamine salt solution	DAD	0 1,2	0	Α	111	Α	No	N/A	56-1(a), (b), (c), (g)	G
,4-Dichlorophenoxyacetic acid, triisopropanolamine salt solution	DTI	43 ²	0	E	Ш	Α	No	N/A	.56-1(a), (b), (c), (g)	a
,1-Dichloropropane	DPB	36	0	С	Ш	Α	Yes	3	No	G
,2-Dichloropropane	DPP	36	0	С	111	Α	Yes	3	No	G
,3-Dichloropropane	DPC	36	0	С	Ш	Α	Yes	3	No	G
,3-Dichloropropene	DPU	15	0	D	Ш	Α	Yes	4	No	G
Dichloropropene, Dichloropropane mixtures	DMX	15	0	С	Ш	Α	Yes	1	No	G
Diethanolamine	DEA	8	0	Е	Ш	Α	Yes	1	55-1(c)	G
Diethylamine	DEN	7	0	С	Ш	Α	Yes	3	.55-1(¢)	G
Diethylenetriamine	DET	72	0	E	Ш	Α	Yes	1	55-1(c)	G
Diisobutylamine	DBU	7	0	D	111	Α	Yes	3	.55-1(c)	G
Diisopropanolamine	DIP	8	0	Е	Ш	Α	Yes	1	55-1(c)	G
Dilsopropylamine	DIA	7	0	С	[]	Α	Yes	3	.55-1(c)	G
N,N-Dimethylacetamide	DAC	10	0	Е	Ш	Α	Yes	3	56-1(b)	G
Dimethylethanolamine	DMB	8	0	D	111	Α	Yes	1	,56-1(b), (c)	G
Dimethylformamide	DMF	10	0	D	Ш	Α	Yes	1	155-1(e)	G
Di-n-propylamine	DNA	7	0	С	П	Α	Yes	3	55-1(c)	G
Dodecyldimethylamine, Tetradecyldimethylamine mixture	DOT	7	0	Е	Ш	Α	No	N/A	.56-1(b)	G
Dodecyl diphenyl ether disulfonate solution	DOS	43	0	#	Ш	Α	No	N/A	No	G
EE Glycol Ether Mixture	EEG	40	0	D	H	Α	No	N/A	No	G
Ethanolamine	MEA	8	0	E	Ш	Α	Yes	1	.55-1(c)	G
Ethyl acrylate	EAC	14	0	С	Ш	А	Yes	2	_50-70(a), _50-81(a), (b)	G
Ethylamine solutions (72% or less)	EAN	7	0	Α	11	Α	Yes	6	,55-1(b)	G
N-Ethylbutylamine	EBA	7	0	D	Ш	Α	Yes	3	,55-1(b)	G
N-Ethylcyclohexylamine	ECC	7	0	D	III	Α	Yes	1	55-1(b)	G
Ethylene cyanohydrin	ETC	20	0	E	111	Α	Yes	1	No	G
Ethylenediamine	EDA	7 2	0	D	Ш	А	Yes	1	55-1(c)	G
Ethylene dichloride	EDC	36 ²	0	С	III	Α	Yes	1	No	G
Ethylene glycol hexyl ether	EGH	40	0	Е	III	A	No	N/A	No	.0
Ethylene glycol monoalkyl ethers	EGC	40	0	D/E	111	Α	Yes	1	No	G
Ethylene glycol propyl ether	EGP	40	0	E	Ш	Α	Yes	1	No	G
2-Ethylhexyl acrylate	EAI	14	0	E	111	Α	Yes	2	.50-70(a), .50-81(a), (b)	G
Ethyl methacrylate	ETM	14	0	D/E	111	A	Yes	2	50-70(a)	G
2-Ethyl-3-propylacrolein	EPA	19 ²	0	E	113	Α	Yes	1	No	G
Formaldehyde solution (37% to 50%)	FMS	19 ²	0	D/E	III	Α	Yes	1	.55-1(h)	G
Furfural	FFA	19	0	D	HI	Α	Yes	1	55-1(h)	G
Glutaraldehyde solutions (50% or less)	GTA	19	0	NA	III	Α	No Yes	N/A	No .55-1(c)	_ G



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Cargo Authority Attachment

Vessel Name: HFL 449 Official #: 1300074

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Shipyard: C & C Marine

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

Hexamethyleneimine	НМІ	7	0	С	Ш	А	Yes	1	,56-1(b), (c)	G
Isoprene	IPR	30	0	A	III	Α	Yes	7	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	0	D	[1]	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	III	Α	Yes	1	No	G
Methyl diethanolamine	MDE	8	0	Е	111	Α	Yes	1	56-1(b), (c)	G
2-Methyl-5-ethyl pyridine	MEP	9	0	E	III	Α	Yes	1	_55-1(e)	G
Methyl methacrylate	MMM	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	[]]	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
Nitroethane	NTE	42	0	D	П	Α	No	N/A	.50-81, .56-1(b)	G
1- or 2-Nitropropane	NPM	42	0	D	III	Α	Yes	1	.50-81	G
1,3-Pentadiene	PDE	30	0	Α	HI	Α	Yes	7	.50-70(a), .50-81	G
Perchloroethylene	PER	36	0	NA	Ш	Α	No	N/A	No	G
Polyethylene polyamines	PEB	7 2	0	Ė	III	А	Yes	1	55-1(e)	G
iso-Propanolamine	MPA	8	0	Е	III	Α	Yes	1	55-1(c)	G
Propanolamine (iso-, n-)	PAX	8	0	E	III	Α	Yes	1	56-1(b), (c)	6
Isopropylamine	IPP	7	0	Α	II.	Α	Yes	5	.55-1(c)	G
Pyridine	PRD	9	0	С	III	Α	Yes	1	.55-1(e)	G
Pyrolysis Gasoline (containing benzene)	PYG	32	0	С	II	Α	No	N/A	50-60	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)	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	0	NA	Ш	Α	No	N/A	-50-73	G
Sodium hypochlorite solution (20% or less)	SHQ	5	0	NA	III	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	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	0	NA	111	А	No	N/A	50-73, 55-1(b)	G
Sodium sulfide, hydrosulfide solution (H2S greater than 200 ppm)	SSJ	0 1,2	0	NA	ļļ.	Α	No	N/A	50-73, 55-1(b)	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		Α	No	N/A	No	G
Tetraethylene pentamine	TTP	7	0	E	III	Α	Yes	1	55-1(c)	6
Tetrahydrofuran	THF	41	0	С	III	Α	Yes	1	50-70(b)	G
1,2,4-Trichlorobenzene	ТСВ	36	0	Е	111	Α	Yes	1	No	G
1,1,1-Trichloroethane	TCE	36 ²	0.3	NA	П	Α	No	N/A	50-73, 56-1(a)	G
1,1,2-Trichloroethane	TCM	36	0	NA	Ш	Α	Yes	1	50-73, 56-1(a)	G
Trichloroethylene	TCL	36 ²	0	NA	111	Α	Yes	1	No	,G
1,2,3-Trichloropropane	TCN	36	0	Е	II	А	Yes	3	50-73, 56-1(a)	G
Triethanolamine	TEA	g 2	0	Е	III	А	Yes	1	55-1(b)	G
Triethylamine	TEN	7	0	С	П	Α	Yes	3	-55-1(e)	G
Triethylenetetramine	TET	7 2	0	E	H	Α	Yes	1	.55-1(b)	G
Triphenylborane (10% or less), caustic soda solution	TPB	5	0	NA	III	Α	No	N/A	56-1(a), (b), (c)	G.



Serial #: C1-1901306 Dated: 01-May-19

Certificate of Inspection

Cargo Authority Attachment

Vessel Name: **HFL 449**Official #: 1300074

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Shipyard: C & C Marine

Cargo Identification	n					Conditions of Carriage						
Name	Chem Code	Compal 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. Perio		
4)												
Trisodium phosphate solution	TSP	5	0	NA	III	А	No	N/A	,50-73, ₁ ,56-1(a), (c)	G		
Urea, Ammonium nitrate solution (containing more than 2% NH3)	UAS	6	0	NA	Ш	Α	No	N/A	,56-1(b)	G		
Vanillin black liquor (free alkali content, 3% or more).	VBL	5	0	NA	H	Α	No	N/A	.50-73, .56-1(a), (c), (g)	G		
Vinyl acetate	VAM	13	0	С	Ш	Α	Yes	2	50-70(a), 50-81(a), (b)	G		
Vinyl neodecanoate	VND	13	0	E	Ш	Α	No	N/A		G		
Vinyltoluene	VNT	13	0	D	111	А	Yes	2	50-70(a), 50-81, 56-1(a), (b), (c), (G		
Subchapter D Cargoes Authorized for Vapor Contr	ol											
Acetone	ACT	18	2 D	C		Α	Yes	1				
Acetophenone	ACP	18	D	Е		Α	Yes	1				
Alcohol (C12-C16) poly(20+) ethoxylates	APW	/ 20	D	Ε		Α	Yes	1				
Alcohol (C6-C17) (secondary) poly(3-6) ethoxylates	AEA	20	D	Е		А	Yes	1				
Alcohol (C6-C17) (secondary) poly(7-12) ethoxylates	AEB	20	D	Е		А	Yes	1				
Amyl acetate (all isomers)	AEC		D	D		А	Yes	1				
Amyl alcohol (iso-, n-, sec-, primary)	AAI	20	D	D		А	Yes					
	BZE		D	E		A	Yes					
Benzyl acetate						A						
Benzyl alcohol	BAL	21	D	E			Yes					
Brake fluid base mixtures (containing Poly(2-8)alkylene(C2-C3) glycols, Polyalkylene(C2-C10) glycol monoalkyl(C1-C4) ethers, and their borate esters)	BFY	20	D	E		A	Yes	1				
Bulyl acetate (all isomers)	ВАХ	34	D	D		Α	Yes	1				
Isobutyl alcohol	IAL	20	2 D	D		Α	Yes	1				
Butyl alcohol (n-)	BAN	l 20	2 D	D		А	Yes	1				
Butyl alcohol (sec-)	BAS	20	2 D	С		А	Yes	1				
Butyl alcohol (tert-)	BAT	20	2 D	С		A	Yes	1				
Butyl benzyl phthalate	BPH	1 34	D	Е		А	Yes	1				
Butyl toluene	BUE		D	D		А	Yes					
	CLS		D	E		A						
Caprolactam solutions			1111	С		A	Yes					
Cycloheptane	CYE		D									
Cyclohexane	CH>		D	C		A						
Cyclohexanol	CHI		D	E		Α						
Cyclohexyl acetate	CYC					Α						
1,3-Cyclopentadiene dimer (molten)	CPE	30	D	D/E		A	Yes	2				
Cyclopentane	CYF	31	D	В		Α	Yes	1				
p-Cymene	CMI	P 32	D	D		А	Ye	1				
iso-Decaldehyde	IDA	19	D	Е		Α	Ye	3 1				
n-Decaldehyde	DAL	_ 19	D	Е		А	Ye	3 1				
Decanoic acid	DC	0 4	D	#		А	Ye	3 1				
Decene	DCE	∃ 30	D	D_		Α	Ye	3 1				



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Shipyard: C & C Marine

Cargo Identifica		Conditions of Carriage								
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	App'd	Recovery VCS Category	Special Requirements in 46 CFR 151 General and Mat'ls of Construction	Insp. Period
n-Decylbenzene, see Alkyl(C9+)benzenes	DBZ	32	D	E		А	Yes	1		
Diacetone alcohol	DAA	20	2 D	D		Α	Yes	1		
Dibutyl phthalate	DPA	34	D	E		А	Yes	1		
Diethylbenzene	DEB	32	D	D		Α	Yes	1		
Diethylene glycol	DEG	40	2 D	Е		А	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		А	Yes	1		
Dimethyl phthalate	DTL	34	D	Е		А	Yes	1		
Dioctyl phthalate	DOP	34	D	Е		А	Yes	1		
Dipentene	DPN	30	D	D		А	Yes	1		
Diphenyl	DIL	32	D	D/E		А	Yes	1		
Diphenyl, Diphenyl ether mixtures	DDC	33	D	E		А	Yes	1		
Diphenyl ether	DPE	41	D	{E}		А	Yes	1		
Dipropylene glycol	DPG		D	E		А	Yes	. 1		
Distillates: Flashed feed stocks	DFF	33	D	Е		А	Yes	. 1		
Distillates: Straight run	DSR		D	Е		А	Yes	1		
Dodecene (all isomers)	DOZ		D	D		А	Yes	1		
Dodecylbenzene, see Alkyl(C9+)benzenes	DDE		D	Е		А	Yes	1		
2-Ethoxyethyl acetate	EEA		D	D		Α	Yes			
Ethoxy triglycol (crude)	ETG	40	D	Е		А	Yes	1		
Ethyl acetate	ETA		D	С		А	Yes	1		
Ethyl acetoacetate	EAA		D	Е		А	Yes	1		
Ethyl alcohol	EAL		2 D	С		Α	Yes	1		
Ethylbenzene	ETB		D	С		А	Yes	1		
Ethyl butanol	EBT		D	D		Α	Yes	1		
Ethyl tert-butyl ether	EBE		D	С		А	Yes	3 1		
Ethyl butyrate	EBF		D	D		A	Yes			
Ethyl cyclohexane	ECY		D	D		А	Yes			
Ethylene glycol	EGL		2 D	Е		А	Yes			
Ethylene glycol butyl ether acetate	EMA			E		A				
Ethylene glycol diacetate	EG)			E		Α				
Ethylene glycol phenyl ether	EPE			E		A				
Ethyl-3-ethoxypropionate	EEF			D		А				
2-Ethylhexanol	EH>			E		А				
Ethyl propionate	EPF			С		A				
Ethyl toluene	ETE					A				
Formamide	FAN			E		A				



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Shipyard: C & C Marine

Cargo Identification							Conditions of Carriage					
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	Vapor Recovery Special Requirements in 46 CFR App'd VCS 151 General and Mat'ls of (Y or N) Category Construction	Insp. Period				

rfuryl alcohol	FAL	20 ²	D	E	А	Yes	1	
asoline blending stocks: Alkylates	GAK	33	D	A/C	А	Yes	1	
asoline blending stocks: Reformates	GRF	33	D	A/C	А	Yes	1	
asolines: Automotive (containing not over 4.23 grams lead per	GAT	33	D	С	А	Yes	1	
asolines: Aviation (containing not over 4.86 grams of lead per gallo	on) GAV	33	D	С	Α	Yes	1	
asolines: Casinghead (natural)	GCS	33	D	A/C	А	Yes	1	
asolines: Polymer	GPL.	33	D	A/C	Α	Yes	1	
asolines: Straight run	GSR	33	D	A/C	Α	Yes	1	
ycerine	GCR	20 2	D	E	А	Yes	1	
eptane (all isomers), see Alkanes (C6-C9) (all isomers)	HMX	31	D	С	Α	Yes	1	
Heptanoic acid	HEN	4	D	E	А	Yes	1	
eptanol (all isomers)	HTX	20	D	D/E	Α	Yes	1	
eptene (all isomers)	HPX	30	D	С	Α	Yes	2	
eptyl acetate	HPE	34	D	E	Α	Yes	1_	
exane (all isomers), see Alkanes (C6-C9)	HXS	31 ²	D	B/C	Α	Yes	1	
exanoic acid	НХО	4	D	E	А	Yes	1	
exanol	HXN	20	D	D	Α	Yes	1	
exene (all isomers)	HEX	30	D	С	А	Yes	2	
exylene glycol	HXG	20	D	E	А	Yes	1	
ophorone	IPH	18 2	D	E	Α	Yes	1_	
et fuel: JP-4	JPF	33	D	Е	Α	Yes	1	
et fuel: JP-5 (kerosene, heavy)	JPV	33	D	D	А	Yes	1	
erosene	KRS	33	D	D	А	Yes	1	
ethyl acetate	MTT	34	D	D	А	Yes	1	
ethyl alcohol	MAL	20 ²	D	С	А	Yes	1	
ethylamyl acetate	MAC	34	D	D	Α	Yes	1	
ethylamyl alcohol	MAA	20	D	D	Α	Yes	1	
ethyl amyl ketone	MAK	18	D	D	Α	Yes	3	
ethyl tert-butyl ether	MBE	41 2	D	С	Α	Yes	1	
ethyl butyl ketone	MBK	18	D	С	А	Yes	1	
ethyl butyrate	MBU	34	D	С	Α	Yes	_ 1	
ethylcyclohexane	MCY	31	D	C	Α	Yes	11	
ethyl ethyl ketone	MEK	18 ²	D	C .	А	Yes	1	
ethyl heptyl ketone	MHK	18	D	D	Α	Yes	1	
lethyl isobutyl ketone	MIK	18 ²	D	С	А	Yes	1	
lineral spirits	MNS	33	D	D	А	Yes	1	
yrcene	MRE	30	D	D	А	Yes	1	
aphtha: Heavy	NAG	33	D	#	А	Yes	1	

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Shipyard: C & C Marine

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Cargo Identification						Conditions of Carriage					
	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank	App'd VCS	151 General and Mat'ls of	Insp. Period		

Naphtha: Petroleum	PTN	33	D	#	А	Yes	1
Naphtha: Solvent	NSV	33	D	D	A	Yes	1
Naphtha: Stoddard solvent	NSS	33	D	D	Α	Yes	1
Naphtha: Varnish makers and painters (75%)	NVM	33	D	С	А	Yes	1
Nonane (all isomers), see Alkanes (C6-C9)	NAX	31	D	D	Α	Yes	1
Nonene (all isomers)	NON	30	D	D	А	Yes	2
Nonyl alcohol (all isomers)	NNS	20 ²	D	E	Α	Yes	1
Nonyl phenol	NNP	21	D	E	Α	Yes	1
Nonyl phenol poly(4+)ethoxylates	NPE	40	D	E	А	Yes	1
Octane (all isomers), see Alkanes (C6-C9)	OAX	31	D	С	А	Yes	1
Octanoic acid (all isomers)	OAY	4	D	E	А	Yes	1
Octanol (all isomers)	OCX	20 ²	D	E	А	Yes	1
Octene (all isomers)	ОТХ	30	D	С	А	Yes	2
Oil, fuel: No. 2	OTW	33	D	D/E	А	Yes	1
Oil, fuel: No. 2-D	OTD	33	D	D	Α	Yes	1
Oil, fuel: No. 4	OFR	33	D	D/E	Α	Yes	1
Oil, fuel: No. 6	OSX	33	D	Е	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	Е	Α	Yes	_1
Oil, mise: Lubricating	OLB	33	D	E	А	Yes	1
Oil, misc: Residual	ORL	33	D	Е	А	Yes	1
Oll, misc: Turbine	ОТВ	33	D	Е	Α	Yes	1
alpha-Olefins (C6-C18) mixtures	OAM	30	D	E	А	Yes	1
Olefins (C13+, all isomers)	OFZ	30	D	E	Α	Yes	1
Pentane (all isomers)	PTY	31	D	A	A	Yes	5
Pentene (all isomers)	PTX	30	D	А	А	Yes	5
n-Pentyl propionate	PPE	34	D	D	A.	Yes	1
alpha-Pinene	PIO	30	D	D	А	Yes	4
beta-Pinene	PIP	30	D	D	Α	Yes	3
Poly(2-8)alkylene glycol monoalkyl (C1-C6) ether	PAG	40	D	E	A	Yes	1
Poly(2-8)alkylene glycol monoalkyl (C1-C6) ether acetate	PAF	34	D	E	А	Yes	8
Polybutene	PLB	30	D	E	А	Yes	ii .
Polypropylene glycol	PGC	40	D	E	Α	Yes	1
Isopropyl acetate	IAC	34	D	С	А	Yes	1
n-Propyl acetate		34	D	С	А	Yes	1
iii iopji doctato	PAT	34			- ' '		
Isopropyl alcohol	IPA	20 2,3	D	С	А	Yes	1



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Shipyard: C & C Marine

Cargo Identification Conditions of Carriage													
Cargo Identification													
Name	Chem Code	Compal Group No	Sub Chapter	Grade	Hull Type	Tank Group	App'd	VCS	Special Requirements in 46 CFR 151 General and Mat'ls of Construction	Insp. Period			
Propylbenzene (all isomers)	PBY	32	D	D		Α	Yes	11					
Isopropylcyclohexane	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	Е		Α	Yes	1					
Tetraethylene glycol	TTG	40	D	Е		Α	Yes	1					
Tetrahydronaphthalene	THN	32	D	Е		Α	Yes	1					
Toluene	TOL	32	D	С		Α	Yes	1					
Tricresyl phosphate (containing less than 1% ortho isomer)	TCP	34	D	Е		Α	Yes	1					
Triethylbenzene	TEB	32	D	Е		Α	Yes	1					
Triethylene glycol	TEG	40	D	Е		Α	Yes	1					
Triethyl phosphate	TPS	34	D	E		Α	Yes	1					
Trimethylbenzene (all isomers)	TRE	32	D	{D}		Α	Yes	1					
Trixylyl phosphate	TRP	34	D	E		Α	Yes	1					
1-Undecene	UDO	30	D	D/E		Α	Yes	1					
1-Undecyl alcohol	UND	20	D	E		Α	Yes	1					
Xylenes (ortho-, meta-, para-)	XLX	32	D	D		Α	Yes	1					



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Shipyard: C & C Marine

Hull #: 334

Explanation of terms & symbols used in the Table:

Cargo Identification

Name Chem Code

Compatability Group No.

Note 1

Note 2

Subchapter D

Subchapter O

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 cargoes listed in 46 CFR Part 153 Table 2 are non-regulated cargoes when carried in bulk on non-oceangoing barges.

Note 3

Grade

A. B. C.

Note 4 NA

Hull Type

NA

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

Those hazardous cargoes listed in 46 CFR Table 151.05 and 46 CFR Part 153 Table 2.

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. 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.

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 the 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

Tank Group Vapor Recovery Approved (Y or N) The yessel'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

Category 1

The specified cargo's provisional classification for vapor control systems

(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 rales.

Category 2

(Polymerizes) 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

(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 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.

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