

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

Certification Date: 09 Sep 2024 Expiration Date: 09 Sep 2029

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		0	fficial Number	IMO Nur	nher	Call Sine		
KIRBY 28094		1	344136	3410 1401	ibei	Call Sign	Service	
		- 1	344130				Tank Ba	arge
	-							
Hailing Port			11.11.					
WILMINGTON,	DE		Hull Material	Hors	sepower	Propulsion		
			Steel					
UNITED STATE	ES							
Place Built			Delivery Date	K-11-18		Wall of the same o		
GALVESTON,	TX			Keel Laid Date	Gross Tons R-1619	Net Tons	DWT	Length
LINITED OTATE	-0		24Jun2024		K-1019	R-1295		R-297.5
UNITED STATE	=8					5		1-0
Owner KIDDY INII AND	MADINE			Opera		- Walley Control		the state of the s
KIRBY INLAND 55 WAUGH DR						MARINE LP		
HOUSTON, TX		000			50 Market S	treet V, TX 77530		
UNITED STATE	S				TED STATE			
This vessel must	t be manned	with the follo	wing licensed	and unlicense	ed Personne	I. Included in v	which there mu	ist be
U Certified Lifebo	oatmen, 0 C	ertified Tank	ermen, 0 HSC	Type Rating,	and 0 GMD	SS Operators.		
0 Masters		Licensed Mate	o omer	Engineers	00	ilers		
0 Chief Mates		First Class Pil		Assistant Engine				
0 Second Mates		Radio Officers	0 Seco	nd Assistant Eng	ineers			
0 Third Mates		Able Seamen		Assistant Engine	ers			
0 Master First Cl		Ordinary Sear		sed Engineers				
0 Mate First Clas		Deckhands		fied Member Eng				
In addition, this versions allowed	t: 0	arry u Passe	ngers, u Otne	r Persons in c	rew, 0 Perso	ons in addition t	to crew, and n	o Others. Total
Route Permitte	ed And Con	ditions Of O	peration:					
Lakes, Ba				Coastwis	e			
LIMITED COASTW	ISE SERVICE T MORE THAN	: IN SEAS O TWELVE (12	F LESS THAN) MILES FROM	THREE (03) F SHORE BETWE	EET, WIND I EN ST. MARK	ESS THAN TWEN	NTY (20) KNOT ELLE, FLORIDA	IS AND CLEAR
THIS TANK BARGI	E IS PARTIC	IPATING IN	THE EIGHTH-N	INTH COAST G	MARD DISTRI	CT'S TANK DA	DOE CEDERAL S	IED THORNOGTON
FINAL LEDWINE	I LINDEROLL	OH MULLYLLL	ED ABUAKI M	IN HARLIN SHA	I BE COMBI	CTTT TAT ACCOU	TORKING CATINIA	ma masses managem
ACTION PLAN (T)		.100 100020	CONCERNING	inis BARGE S	HOULD BE DI	KECTED TO THE	E OCMI SECTOR	R HOUSTON-
THIS VESSEL HAS	S BEEN GRAN	TED A FRESH	WATER SERVI	CE EXAMINATI	ON INTERVAL	IN ACCORDANG	CE WITH 46 CF	FR TABLE
***SEE NEXT								
With this Inspecti	ion for Certifi	cation having	heen comple	tod at Hauma	LA LINUTE	0.074777	o Office I O	
				espects, is in	conformity w	vith the applical	le Officer in Cl ble vessel incr	narge, Marine
	Annual/Perio	oribod tricici	ariuci.				7/1 #	
Date	Zone				his certificate		Mm	
Date	20116	A/P/R	Signatur			WHALEN, CO	OR USCG, By	Direction
	3			Of	icer in Charge, Ma	rine Inspection		
						Houma	, Louisiana	Ġ.
			-	Ins	pection Zone		1.15	



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Vessel Name: KIRBY 28094

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 PER 46 CFR TABLE 31.10-21(a) AND THE COGNIZANT OCMI NOTIFIED IN WRITING AS SOON AS THIS CHANGE IN STATUS OCCURS.

---Hull Exams---

Exam Type

Next Exam

Last Exam

Prior Exam

DryDock

30Sep2034

09Sep2024

Internal Structure

30Sep2029

09Sep2024

--- 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

29797

Barrel

Yes

No

No

Density (lbs/gal)

Hazardous Bulk Solids Authority

Not Authorized

Loading Constraints - Structural

Tank Number	Max Cargo Weight per Tank (short tons)	Maximum I
1 P/S	635	13.58
2 P/S	756	13.58
3 P/S	654	13.58

Loading Constraints - Stability

Hull Type	Maximum Load (short tons)	Maximum Draft (ft/in)	Max Density (lbs/gal)	Route Description
11	3911	10ft 6in	13.58	R, LBS
III	4157	11ft 0in	13.58	R, LBS

Conditions Of Carriage

ONLY THOSE HAZARDOUS CARGOES NAMED IN THE VESSEL'S CARGO AUTHORITY ATTACHMENT, SERIAL NO. C1-2400751 DATED 01 MAR 2024, MAY BE CARRIED AND THEN ONLY IN THE TANKS INDICATED, SUBJECT TO THE LOADING CONSTRAINTS OF THIS DOCUMENT.

PER 46 CFR 150.130, THE PERSON IN CHARGE OF THE BARGE 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 NUMBER FROM THE "COMPATIBILITY GROUP NO." COLUMN LISTED IN THE VESSEL'S CAA.

PER 46 CFR 151.10-15(c)(2) THE MAX TANK WEIGHTS LISTED BELOW REFLECT UNIFORM (WITHIN 5%) LOADING AT THE DEEPEST DRAFT ALLOWED. WHEN CARRYING SUBCHAPER "O" CARGOES AT SHALLOWER DRAFTS, THE BARGE(S) SHOULD ALWAYS BE LOADED UNIFORMLY.

WHEN CARRYING SUBCHAPTER O CARGOES (46 CFR 151) VESSEL'S CARGO TANK INTERNAL EXAMINATION WILL BE REDUCED TO 4 YEARS, AS PER 46 CFR 151.04-5.

WHEN USING THE VAPOR CONTROL SYSTEM TO LOAD HIGHLY TOXIC CARGOES (VCS CATEGORY 3, 4 AND/OR 7 CARGOES), THE VESSEL'S OVERFILL ALARM AND SHUTDOWN SYSTEM SHALL BE USED AS THE PRIMARY CARGO TANK OVERFILL PROTECTION. THE USE OF SPILL VALVES OR RUPTURE DISKS IS PROHIBITED.

WHEN THE VESSEL IS CARRYING CARGOES CONTAINING GREATER THAN 0.5% BENZENE, THE PERSON IN



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

Certification Date: 09 Sep 2024 Expiration Date: 09 Sep 2029

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CHARGE IS RESPONSIBLE FOR ENSURING THE PROVISIONS OF 46 U.S. CODE OF FEDERAL REGUALTIONS PART 197, SUBPART C ARE APPLIED.

THE MAXIMUM DESIGN DENSITY OF CARGO WHICH MAY BE FILLED TO THE TANK TOP IS 8.74 LBS/GAL. CARGOES WITH HIGHER DENSITIES, UP TO 13.58 LBS/GAL, MAY BE CARRIED AS SLACK LOADS, BUT SHALL NOT EXCEED THE TANK WEIGHT LIMITS AS LISTED ABOVE.

IN ACCORDANCE WITH 46 CFR PART 39, EXCLUDING PART 39.4000, THIS VESSEL'S VAPOR CONTROL SYSTEM HAS BEEN INSPECTED TO THE PLANS APPROVED BY MARINE SAFETY CENTER LETTERS SERIAL NO. C1-2400751 DATED 01 MAR 2024, AND FOUND ACCEPTABLE FOR COLLECTION OF BULK LIQUID CARGO VAPORS ANNOTATED WITH "YES" IN THE CAA'S VCS COLUMN.

IN ACCORDANCE WITH 46 CFR PART 39.1017 AND 39.5000 THIS VESSEL'S VCS HAS BEEN EVALUATED AND APPROVED FOR MULTI-BREASTED TANDEM LOADING WITH OTHER VESSELS SPECIFICALLY APPROVED TO TANDEM LOAD WITH THIS VESSEL.

--- Inspection Status ---

Cargo Tanks

	Internal Exa	ım		External Ex	am	
Tank Id	Previous	Last	Next	Previous	Last	Next
1 P/S		09Sep2024	30Sep2034	-	-	-
2 P/S	*	09Sep2024	30Sep2034		=	3 =
3 P/S		09Sep2024	30Sep2034	-	_	
			Hydro Test			
Tank Id	Safety Valv	es	Previous	Last	Next	
1 P/S	*		(Car	200	-	
2 P/S	₩:		l =			
3 P/S	- :			_	_	

---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



01-Mar-24

Certificate of Inspection

Cargo Authority Attachment

Official #: 1344136

Shipyard: West Gulf Marine

Hull #: 328

Tank Group Information	Cargo I	dentificati	on		Cargo	1	Tanks		Carg		Enviror	mental	Fire	Special Require	ments		
Tnk Grp Tanks in Group	Density	Press.	Temp.	Hull Typ	Seq	Туре	Vent	Gauge	Pipe Class	Cont	Tanks	Handling Space	Protection Provided	General	Materials of Construction	Elec	Temp
A #1-3 P/S	13.6	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,		I-D	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

List of Authorized Cargoes

Cargo	Cargo Identification										Conditions of Carriage						
Name	CAS Number	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	Vapor R App'd	Recovery VCS	Special Requirements in 46 CFR 151 General and Mat's of	Insp. Perior						
Authorized Subchapter O Cargoes							182 18										
Bis(2-ethylhexyl) terephthalate	N/A	PEC	34	D/O	E	Ü	А	No	N/A	No	G						
Olefins (C13+, all isomers)	85535-87-1	OFZ	30	D/O	E	Ш	Α	Yes	1		G						
Acetonitrile	75-05-8	ATN	37	0	С	III	Α	Yes	3	No	G						
Acrylonitrile	N/A	ACN	15 ²	0	С	IJ	Α	Yes	4	.50-70(a), .55-1(e)	G						
Adiponitrile	111-69-3	ADN	37	0	Е	Н	А	Yes	1	No	G						
Alkyl (C7-C9) nitrates	20633-12-9*	AKN	34 2	0	NA	Ш	А	Yes	1	.50-81, .50-86	G						
Aminoethyl ethanolamine	111-41-1	AEE	8	0	E	m	Α	Yes	1	.55-1(b)	G						
Ammonium bisulfite solution (70% or less)	10192-30-0	ABX	43 2	0	NA	Ш	А	No	N/A	50-73, .56-1(a), (b), (c)	G						
Ammonium hydroxide (28% or less NH3)	1336-21-6	АМН	6	0	NA	III	А	No	N/A	.56-1(a). (b), (c), (f), (g)	G						
Anthracene oil (Coal tar fraction)	65996-91-0	АНО	33	0	NA	11	А	No	N/A	No	G						
Benzene	71-43-2	BNZ	32	0	С	m	Α	Yes	1	50-60	G						
Benzene, C10-16 alkyl derivatives	N/A	BENI	32	0	D	Ш	Α	No	N/A		G						
Benzene and mixtures having 10% Benzene or more	N/A	внв	32 2	0	С	111	Α	Yes	1	.50-60	G						
Benzene or hydrocarbon mixtures (containing Acetylene and 10% Benzene or more)	N/A	ВНА	32 2	0	С	Ш	Α	Yes	1	.50-60, .56-1(b), (d), (f), (g)	G						
Benzene, Toluene, Xylene mixtures (10% Benzene or more)	N/A	втх	32	0	B/C	Ш	Α	Yes	1	50-60	G						
Butyl acrylate (all isomers)	141-32-2	BAR	14	0	D	ш	Α	Yes	2	.50-70(a), 50-81(a), (b)	G						
Butyl methacrylate	97-88-1	вмн	14	0	D	111	A	Yes	2	.50-70(a), .50-81(a), (b)	G						
Camphor oil (light)	8008-51-3	СРО	18	0	D	П	А	No	N/A	No	G						
Carbon tetrachloride	56-23-5	СВТ	36	0	NA	Ш	Α	Yes	3	No	G						
Caustic potash solution	1310-58-3	CPS	5 2	0	NA	Ш	A	No	N/A	.50-73, .55-1(j)	G						
Caustic soda solution	1310-73-2	css	5 2	0	NA	III	Α	No	N/A	50-73, 55-1(j)	G						



Serial #: C1-2400751

Certificate of Inspection

Cargo Authority Attachment

Official #: 1344136

Page 2 of 11

Shipyard: West Gulf Marine

Cargo	Identification	n								tions of Carriage	
Name	CAS Number	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	App'd (Y or N)	VCS	Special Requirements in 46 CFR 151 General and Mat'ls of Construction	Insp. Period
Chlorobenzene	108-90-7	CRB	36	0	D	101	Α	Yes	1	No	G
Chloroform	67-66-3	CRF	36	0	NA	Ш	Α	Yes	3	No	G
Coal tar naphtha solvent	8030-30-6	NCT	33	0	D	Ш	А	Yes	1	.50-73	G
Creosote	N/A	ccw	21 2	0	E	Ш	А	Yes	1	No	G
Cresols (all isomers)	1319-77-3	CRS	21	0	E	111	А	Yes	1	No	G
Cresylate spent caustic	N/A	csc	5	0	NA	Ш	Α	No	N/A	.50-73, .55-1(b)	G
Cresylic acid tar	N/A	CRX	21	0	E	111	Α	Yes	1	.55-1(f)	G
Crude hydrocarbon feedstock (containing Butyraldehydes and Ethylpropyl acrolein)	N/A	СНС	19	2 0	С	Ш	Α	Yes	1	No	G
Cyclohexanone	108-94-1	ССН	18	0	D	Ш	Α	Yes	1	.56-1(a), (b)	G
Cyclohexanone, Cyclohexanol mixture	N/A	CYX	18	2 0	E	111	Α	Yes	1	.56-1 (b)	G
Cyclohexylamine	N/A	CHA	. 7	0	D	111	Α	Yes	1	.56-1(a), (b), (c), (g)	G
Cyclopentadiene, Styrene, Benzene mixture	N/A	CSB	30	0	D	111	А	Yes	1	.50-60, .56-1(b)	G
iso-Decyl acrylate	N/A	IAI	14	0	E	111	Α	Yes	2	.50-70(a), .50-81(a), (b), .55-1(c)	G
Dichlorobenzene (all isomers)	25321-22-6	DBX	36	O	E	111	А	Yes	3	.56-1(a), (b)	G
1,1-Dichloroethane	75-34-3	DCH		C	С	111	Α	Yes	1	No	G
Dichloromethane	75-09-2	DCN	и 36	C	NA	111	A	Yes	5	No	G
2,4-Dichlorophenoxyacetic acid, diethanolamine salt solution		DDE				111	Α	No	N/A	Δ .56-1(a), (b), (c), (g)	G
2,4-Dichlorophenoxyacetic acid, dimethylamine salt solution	2008-39-1	DAD	0	1,2	Α	u	Α	No	N/A	4 .56-1(a), (b), (c), (g)	G
2,4-Dichlorophenoxyacetic acid, triisopropanolamine salt solution	34075-45-1	DTI	43	2 () E	III	А	No	N/A	Δ .56-1(a), (b), (c), (g)	G
1,1-Dichloropropane	78-99-9	DPE	3 36	C	С С	111	Α	Yes	3	No	G
1,2-Dichloropropane	78-87-5	DPF	36	C) С	111	Α	Yes	3	No	G
1,3-Dichloropropane	142-28-9	DPC	36) с	111	Α	Yes	3	No	G
1,3-Dichloropropene	N/A	DP	J 15	C	D	11	Α	Yes	5 4	No	G
Dichloropropene, Dichloropropane mixtures	8003-19-8	DM	X 15	(С	11	Α	Yes	s 1	No	G
Diethanolamine	111-42-2	DE	4 8) E	III	Α	Ye:	s 1	.55-1(c)	G
Diethylenetriamine	111-40-0	DE.	г 7	2 () E	III	Α	Ye	s 1	.55-1(c)	G
Diisopropanolamine	110-97-4	DIP	8	() E	111	А	Ye	s 1	.55-1(c)	G
N,N-Dimethylacetamide	127-19-5	DA	C 10	() E	Ш	Α	Ye	s 3	.56-1(b)	G
Dimethylformamide	68-12-2	DM	F 10	(D 0	III	A	Ye	s 1	.55-1(e)	G
1-Dodecene	N/A	DD	C 30) E	н	А	No	N/	A No	G



Cargo Authority Attachment

Official #: 1344136

Page 3 of 11

Shipyard: West Gulf Marine

Serial #: C1-2400751

01-Mar-24

	Color and the Color of the	THE RESERVE OF THE PERSON NAMED IN	-	age 3	וו וו					Hull #: 328	
Cargo	Identificati	ion							Condi	tions of Carriage	
Name	CAS Number	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	Vapor F App'd	Recovery	Special Requirements in 46 CFR 151 General and Mat'ls of Construction	Insp
Dodecyldimethylamine, Tetradecyldimethylamine mixture	112-18-5*	DOT	7	0	E	III	A	No	N/A	- M	Peri
Dodecyl diphenyl ether disulfonate solution	N/A	DOS	43	0	#	Н					
Ethanolamine	141-43-5	MEA	8	0	 E		A	No	N/A		G
Ethyl acrylate	140-88-5	EAC	14	0		III	Α .	Yes	1	.55-1(c)	G
Ethylamine solutions (72% or less)	75-04-7	EAN	7		С		A	Yes	2	.50-70(a), .50-81(a), (b)	G
Ethylene cyanohydrin	109-78-4	ETC	20	0	A		Α	No	N/A	.55-1(b)	G
Ethylenediamine	107-15-3	EDA	7 2	0	E	-111	Α	Yes	1	No.	G
Ethylene dichloride	107-06-2			0	D	111	A	Yes	1	.55-1(c)	G
Ethylene glycol hexyl ether	112-25-4	EDC	36 ²	0	С	1111	A	Yes	1	No	G
Ethylene glycol propyl ether	2807-30-9	EGH	40	0	E	111	Α	No	N/A	No	G
2-Ethylhexyl acrylate		EGP	40	0	E	Ш	Α	Yes	11	No	G
Ethyl methacrylate	103-11-7	EAI	14	0	E	Ш	Α	Yes	2	.50-70(a), .50-81(a), (b)	G
	97-63-2	ETM	14	0	D/E	111	Α	Yes	2	.50-70(a)	G
Glutaraldehyde solutions (50% or less)	111-30-8	GTA	19	0	NA	111	Α	No	N/A	No	G
Hexamethylenediamine solution	124-09-4	HMC	7	0	E	111	Α	Yes	1	55-1(c)	G
Isoprene	78-79-5	IPR	30	0	Α	111	Α	No	N/A	50-70(a), 50-81(a), (b)	G
soprene, Pentadiene mixture	N/A	IPN	30	0	В	101	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)	68131-33-9	KPL	5	0	NA	111	Α	No	N/A	.50-73, 56-1(a), (c), (g)	G
Mesityl oxide	141-79-7	MSO	18 ²	0	D	Ш	Α	Yes	1	No	G
Methyl acrylate	96-33-3	MAM	14	0	С	111	Α	Yes	2	.50-70(a), .50-81(a), (b)	G
2-Methyl-5-ethyl pyridine	104-90-5	MEP	9	0	Е	Ш	A	Yes	1	.55-1(e)	
Methyl methacrylate	80-62-6	MMM	14	0	С	Ш	A	Yes		.50-70(a), .50-81(a), (b)	G
2-Methylpyridine	109-06-8	MPR	9	0	D	111	A	recoll	2		G
alpha-Methyistyrene	98-83-9	MSR	30	0	D	111	A	Yes	3	.55-1(c)	G
Corn oil	8001-30-7	осо	34	0	E			Yes	2	.50-70(a), .50-81(a), (b)	G
,3-Pentadiene	1574-41-0	PDE	30	0		11	A	No	N/A	.50-73	G
Perchloroethylene	127-18-4	PER	36	0	A	111	A	No	N/A	.50-70(a) .50-81	G
olyethylene polyamines	109-89-7	PEB	7 2	0	NA E	JII	A	No	N/A	No .	G
otassium chloride solution (brine)	N/A	PCSB	0	0		111	A	Yes	1	.55-1(e)	G
so-Propanolamine	78-96-6	MPA	8	0	NA E	III	A	No	N/A		G
ropanolamine (iso-, n-)	N/A	PAX	8	0		111	A .	Yes	_1	.55-1(c)	G
opropylamine	75-31-0	IPP			E	III	A	Yes	1	.56-1(b), (c)	G

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



Cargo Authority Attachment

Official #: 1344136

Page 4 of 11

Shipyard: West Gulf Marine

Serial #: C1-2400751

01-Mar-24

Cargo	Identification	1						C	Condit	ions of Carriage	
Name	CAS Number	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 Construction	Insp. Period
Pyridine	110-86-1	PRD	9	0	С	Ш	Α	Yes	1	.55-1(e)	G
Solution containing ammonium hiosulfate (≤60%), ammonium sulfate ≤6%) and ammonium sulfite (≤5%) ≤6%) and ammonium sulfite (≤5%)		ATAS	0	0	NA	Ш	А	No	N/A	:	G
Sodium aluminate solution (45% or less)	11138-49-1	SAU	5	0	NA	III	Α	No	N/A	.50-73, .56-1(a), (b), (c)	G
Sodium chlorate solution (50% or less)	7775-09	SDD	0 1	,2 O	NA	Ш	Α	No	N/A	.50-73	G
Sodium hypochlorite solution (20% or less)	7681-52-9	SHQ	5	О	NA	111	Α	No	N/A	.50-73, .56-1(a), (b)	G
Sodium Methylate (30% or less) in Methyl Alcoho Mixture	N/A	SMS	20	0	D	111	A	No	N/A	No	4 уг
Sodium sulfide, hydrosulfide solution (H2S 15 opm or less)	N/A	SSH	0 1	i,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)	N/A	SSI	0 1	1,2 0	NA	111	Α	No	N/A	.50-73, .55-1(b)	G
Sodium sulfide, hydrosulfide solution (H2S greater than 200 ppm)	N/A	SSJ	0	1,2 O	NA	11	Α	No	N/A	.50-73, .55-1(b)	G
Spent Caustic Soda Solution (containing up to 0.1% Benzene)	N/A	scs	S 5	0	NA	III	Α	No	N/A	.50-60, .50-73, .55-1(j)	G
Styrene monomer	100-42-5	STY	30	0	D	Ш	Α	Yes	2	.50-70(a), .50-81(a), (b)	G
Tetrachloroethane	79-34-5	TEC	36	0	NA	Ш	Α	No	N/A	No	G
1,2,4-Trichlorobenzene	120-82-1	тсв	36	0	Е	111	Α	Yes	1	No	G
1,1,2-Trichloroethane	79-00-5	TCM	1 36	0	NA	111	Α	Yes	1	.50-73, .56-1(a)	G
Trichloroethylene	79-01-6	TCL	36	2 0	NA	111	Α	Yes	1	No	G
1,2,3-Trichloropropane	96-18-4	TCN	36	0	Е	11	Α	Yes	3	.50-73, .56-1(a)	G
Triphenylborane (10% or less), caustic soda solution	960-71-4	TPB	5	0	NA	181	Α	No	N/A	λ .56-1(a), (b), (c)	G
Trisodium phosphate solution	10101-89-0	TSP	5	0	NA	111	Α	No	N/A	50-73, .56-1(a), (c).	G
Urea, Ammonium nitrate solution (containing more than 2% NH3)	N/A	UAS	6	0	NA	III	Α	No	N/A	Δ .56-1(b)	G
Vanillin black liquor (free alkali content, 3% or more).	68514-06-7	VBL	. 5	C	NA	111	Α	No	N/	Δ .50-73, .56-1(a), (c), (g)	G
Vinyl acetate	108-05-4	VAN	A 13	C	С	Ш	Α	Yes	5 2	.50-70(a), .50-81(a), (b)	G
Vinyl neodecanoate	51000-52-3	VNE	13	С	E	111	Α	No	N/	Δ .50-70(a), .50-81(a), (b)	G
Vinyltoluene	25013-15-4	VNT	13	С	D	111	Α	Yes	2	.50-70(a), .50-81, .56-1(a), (b), (c), (G
Subchapter D Cargoes Authorized fo	or Vapor Cont	rol									
Acetone	67-64-1	ACT	18	2 [C		Α	Yes	1		
Acetophenone	98-86-2	ACF	18		E		Α	Yes	1		
Alcohol (C12-C16) poly(20+) ethoxylates	68551-12-2*	APV	V 20		E		А	Yes	1	•	



Cargo Authority Attachment

Official #: 1344136

Page 5 of 11

Shipyard: West Gulf Marine

Serial #: C1-2400751

01-Mar-24

Cargo	Identification	711					Conditions of Carriage						
Name	CAS Number	Chem	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	Vapor F App'd	Recovery	Special Requirements in 46 CFR 151 General and Mat'ls of Construction	Insp.		
Alcohol (C6-C17) (secondary) poly(3-6) ethoxylates	84133-50-6*	AEA	20	D	E		А	Yes	1		T GITO		
Alcohol (C6-C17) (secondary) poly(7-12) ethoxylates	84133-50-6*	AEB	20	D	Ε		А	Yes	1				
Alcohols (C13+)	112-70-9*	ALY	20	D	E		Α	Yes					
Amyl acetate (all isomers)	628-63-7	AEC	34	D	D		A	Yes	1	The state of the s			
Amyl alcohol (iso-, n-, sec-, primary)	N/A	AAI	20	D	D		A	Yes	1				
Benzyl acetate	140-11-4	BZE	34	D	E		A	Yes	1				
Benzyl alcohol	100-51-6	BAL	21	D	E		A	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)	N/A	BFY	20	D	E		A	Yes	1		-15		
Butyl acetate (all isomers)	123-86-4	BAX	34	D	D		А	Yes	1				
Isobutyl alcohol	78-83-1	IAL	20 2		D		A	Yes	1				
Butyl alcohol (n-)	N/A	BAN	20 2		D		A	Yes	1				
Butyl alcohol (sec-)	N/A	BAS	20 2	D	С		Α	Yes	1				
tert-Butyl Alcohol	N/A	BAT	20 2		С		Α	Yes	1				
Butyl benzyl phthalate	85-68-7	ВРН	34	D	E		A	Yes	1				
Butyl toluene	1595-05-7	BUE	32	D	D		A	Yes	1				
Caprolactam solutions	105-60-2	CLS	22	D	Ε		А	Yes	1				
Cycloheptane	291-64-5	CYE	31	D	С	-	A	Yes	1				
Cyclohexane	110-82-7	СНХ	31	D	С		А	Yes	1				
Cyclohexanol	108-93-0	CHN	20	D	E		А	Yes	1				
Cyclohexyl acetate	622-45-7	CYC	34	D	D		A	Yes	1				
1,3-Cyclopentadiene dimer (molten)	7313-32-8	CPD	30	D	D/E		A	Yes	2				
Cyclopentane	287-92-3	CYP	31	D	В		Α	Yes	1				
p-Cymene	99-87-6	CMP	32	D	D		A	Yes	1				
iso-Decaldehyde	N/A	IDA	19	D	E		A	Yes	1				
n-Decaldehyde	N/A	DAL	19	D	E		A	Yes	1				
Decanoic acid	334-48-5	DCO	4	D	#		A	Yes	1				
Decene	872-05-9	DCE	30	D	D		A	Yes	1				
Decyl alcohol (all isomers)	85566-12-7	DAX	20 ²	D	E		A	Yes	1				
n-Decylbenzene, see Alkyl(C9+)benzenes	104-72-3	DBZ	32	D	E		A	Yes	1				
Diacetone alcohol	123-42-2	DAA	20 2	D	D		A	Yes	1				
Dibutyl phthalate	84-74-2	DPA-	34	D	E		· A	Yes	1				



erial #: C1-2400751 Dated: 01-Mar-24

Certificate of Inspection

Cargo Authority Attachment

Official #: 1344136

Page 6 of 11

Shipyard: West Gulf Marine

Ca	argo Identification	n			,		Conditions of Carriage						
Name	CAS Number	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		
Diethylbenzene	25340-17-4	DEB	32	D	D		Α	Yes	1				
Diethylene glycol	111-46-6	DEG	40	2 D	Е		Α	Yes	1				
Diisobutylene	25167-70-8	DBL	30	D	С		Α	Yes	1				
Diisobutyl ketone	108-83-8	DIK	18	D	D		Α	Yes	1		and A Constitute of		
Diisopropylbenzene (all isomers)	25321-09-9	DIX	32	D	E		Α	Yes	1				
Dimethyl phthalate	131-11-3	DTL	34	D	Е		Α	Yes	1				
Dioctyl phthalate	117-84-0	DOP	34	D	Е		Α	Yes	1				
Dipentene	138-86-3	DPN	30	D	D		Α	Yes	1				
Diphenyl	92-52-4	DIL	32	D	D/E		Α	Yes	1				
Diphenyl, Diphenyl ether mixtures	8004-13-5	DDC	33	D	Е		А	Yes	1				
Diphenyl ether	101-84-8	DPE	41	D	{E}		Α	Yes	1				
Dipropylene glycol	25265-71-8	DPG	40	D	Е		Α	Yes	1				
Distillates: Flashed feed stocks	8002-05-9	DFF	33	D	Е	- Calman Sancras III Inc.	Α	Yes	1				
Distillates: Straight run	68814-87-9	DSF	33	D	Е		Α	Yes	1				
Dodecene (all isomers)	25378-22-7	DOZ	30	D	D		Α	Yes	1				
Dodecylbenzene	123-01-3	DDE	32	D	Е		А	Yes	1				
2-Ethoxyethyl acetate	111-15-9	EEA	34	D	D		А	Yes	1				
Ethoxy triglycol (crude)	112-50-5	ETG	40	D	Ε		Α	Yes	. 1				
Ethyl acetate	141-78-6	ETA	34	D	С		А	Yes	1				
Ethyl acetoacetate	141-97-9	EAA	34	D	E		А	Yes	. 1				
Ethyl alcohol	64-17-5	EAL	. 20	2 D	С		А	Yes	s 1				
Ethylbenzene	100-41-4	ETE	3 32	D	С		А	Yes	s 1				
Ethyl butanol	97-95-0	EBT	20	D	D		Α	Yes	s 1				
Ethyl tert-butyl ether	637-92-3	EBE	∃ 41	D	С		Α	Yes	s 1				
Ethyl butyrate	105-54-4	EBF	R 34	D	D		А	Ye	s 1				
Ethyl cyclohexane	1678-91-7	EC.	Y 31	D	D		А	Ye	s 1				
Ethylene glycol	107-21-1	EGI	_ 20	2 D	Е		А	Ye	s 1				
Ethylene glycol butyl ether acetate	112-07-2	EM		D			А	Ye	s 1				
Ethylene glycol diacetate	111-55-7	EG			E		А	Ye	s 1				
Ethylene glycol phenyl ether	122-99-6	EPE					А	Ye	s 1				
Ethyl-3-ethoxypropionate	763-69-9	EEF					А						
2-Ethylhexanol	104-76-7	EH	X 20	D	Е		Α	Ye	s 1				
Ethyl propionate	105-37-3	EPF					А	Ye					



Serial #: C1-2400751 Dated:

Certificate of Inspection

Cargo Authority Attachment

Official #: 1344136

Page 7 of 11

Shipyard: West Gulf Marine

01-Mar-24

Cargo	Identification	on					Conditions of Carriage						
	CAS Number	Chan	Compat					Vapor I	Recovery	The state of the s			
Name	O'NO HUMBER	Chem	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.		
Ethyl toluene	25550-14-5	ETE	32	D	D						Perio		
Formamide	75-12-7	FAM	10	D	E		A	Yes	1				
Furfuryl alcohol	98-00-0	FAL	20 2				Α	Yes	1				
Gasoline blending stocks: Alkylates	64741-64-6	GAK	33		E		Α	Yes	1				
Gasoline blending stocks: Reformates	8006-61-9	GRF	33	D	С		A	Yes	1		-		
Gasolines: Automotive (containing not over 4.23 grams lead per gallon)	86290-81-5	GAT	33	D	C A/C		A	Yes	1				
Gasolines: Aviation (containing not over 4.86 grams of lead per gallon)	N/A	GAV	33	D	С		А	Yes	1				
Gasolines: Casinghead (natural)	68425-31-0	GCS	33	D	A/C		^						
Gasolines: Polymer	8006-61-9	GPL	33	D	C		A	Yes					
Gasolines: Straight run	68606-11-1	GSR	33	D	A/C		A	Yes	1				
Glycerine	56-81-5	GCR	20 2	D	E		A	Yes	1				
Heptane (all isomers)	142-82-5	НМХ	31	D	C		A	Yes	1				
n-Heptanoic acid	111-14-8	HEN	4	D	E		A	Yes	1				
Heptanol (all isomers)	111-70-6	HTX	20	D	D/E		Α	Yes	1				
Heptene (all isomers)	592-76-7	HPX	30	D	C		Α	Yes	1				
Heptyl acetate	112-06-1	HPE	34	D			A	Yes	2				
Hexane (all isomers)	110-54-3	HXS	31 2	D	E		Α .	Yes	1				
Hexanoic acid	142-62-1	нхо	4	D	B/C E		A	Yes	1				
Hexanol	N/A	HXN	20	D			A	Yes	1				
Hexene (all isomers)	592-41-6	HEX	30		D		A	Yes	11		-		
Hexylene glycol	107-41-5	HXG	20	D	C		A	Yes	2		-		
sophorone	78-59-1	IPH		D	E _		Α	Yes	1				
Jet fuel: JP-4	50815-00-4		18 2	D	E		Α	Yes	1				
Jet fuel: JP-5 (kerosene, heavy)	8008-20-6	JPF	33	D	E		Α	Yes	1				
(erosene		JPV	33	D.	D		Α	Yes	1				
auric acid	8008-20-6 143-07-7	KRS	33	D	D		Α	Yes	1				
Methyl acetate	79-20-9	LRA	34	D	#		A	Yes	1				
Methyl alcohol	67-56-1	MTT	34	D	D		A	Yes	1				
Methylamyl acetate	7789-99-3	MAL	20 2	D	С		Α	Yes	1				
Methylamyl alcohol	108-11-2	MAC	34	D	D		Α	Yes	1				
fethyl amyl ketone	110-43-0	MAA	20	D	D		Α	Yes	1				
lethyl tert-butyl ether		MAK	18	D	D		Α	Yes	1				
	1634-04-4	MBE	41 2	D	С		Α	Yes	1				

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Serial #: C1-2400751 Dated: 01-Mar-24

Certificate of Inspection

Cargo Authority Attachment

Official #: 1344136

Page 8 of 11

Shipyard: West Gulf Marine

Cargo Identification								Conditions of Carriage						
Name	CAS Number	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			
Methyl butyl ketone	N/A	MBK	18	D	С		А	Yes	1					
Methyl butyrate	623-42-7	MBU	34	D	С		Α	Yes	1_					
Methylcyclohexane	591-47-9	MCY	31	D	С		А	Yes	1					
Methyl ethyl ketone	78-93-3	MEK	18	2 D	С		Α	Yes	1					
Methyl heptyl ketone	821-55-6	мнк	18	D	D		Α	Yes	1					
2-Methyl-2-hydroxy-3-butyne	115-19-5	МНЕ	20	D	С		А	Yes	1					
Methyl isobutyl ketone	108-10-1	MIK	18	2 D	С		Α	Yes	1					
Mineral spirits	64475-85-0	MNS	33	D	D		Α	Yes	1_					
Myrcene	123-35-3	MRE	30	D	D		Α	Yes	1					
Naphtha: Heavy	64742-94-5	NAG	33	D	#		Α	Yes	1					
Naphtha: Petroleum	64742-94-5	PTN	33	D	#		Α	Yes	1					
Naphtha: Solvent	64742-94-5	NSV	33	D	D		Α	Yes	1					
Naphtha: Stoddard solvent	8052-41-3	NSS	33	D	D		А	Yes	1					
Naphtha: Varnish makers and painters (75%)	8032-32-4	NVN	A 33	D	С		Α	Yes	1					
Neodecanoic acid	26896-20-8	NEA	4	D	Е		Α	Yes	1					
Nonane (all isomers)	111-84-2	NAX	31	D	D		Α	Yes	1					
Nonene (all isomers)	N/A	NOI	۷ 30	D	D		Α	Yes	3 2					
Nonyl alcohol (all isomers)	143-08-8	NN	5 20	2 D	Е		А	Ye	5 1					
Nonyl phenol	25154-52-3	NN	21		E		А	Ye	s 1	and representation and the second second				
Nonyl phenol poly(4+)ethoxylates	9016-45-9	NP	€ 40		E		А	Ye	s 1					
Octane (all isomers)	111-65-9	OA	X 31	C	С		Α	Ye	s 1	- 10 10-10 10-10 10 10 10 10				
Octanoic acid (all isomers)	124-07-2	OA	Y 4		E		Α	Ye	s 1					
Octanol (all isomers)	111-87-5	ос	X 20	2 [E		A	Ye	s 1					
Octene (all isomers)	111-66-0	OT.	X 30		С		А	Ye	s 2					
Oil, fuel: No. 2	68476-30-2	ОТ	W 33) D/	E	Α	. Ye	s 1					
Oil, fuel: No. 2-D	N/A	ОТ	D 33	t	D D		Α	Ye	s 1		non-arriva			
Oil, fuel: No. 4	68553-00-4	OF	R 33	Ι	D D	Έ	Α	Ye	s 1					
Oil, fuel: No. 5	70892-11-4	OF	V 33	ľ	D D	E	A	Ye	s 1					
Oil, fuel: No. 6	68553-00-4	os	X 33	ι) E		Д	Ye	s 1					
Oil, misc: Crude	N/A	OIL	. 33) A	D	А	Ye.	s 1					
Oil, misc: Diesel	68334-30-5	OD	S 33	ι	D.	E	A	Ye	s 1					
Oil, misc: Gas, high pour	8006-61-9	OG	P 33) E		Α	Ye	s 1					
Oil, misc: Lubricating	93572-43-1	OL	в 33	t	E		Д	Ye	s 1					



Cargo Authority Attachment

Official #: 1344136

Page 9 of 11

Shipyard: West Gulf Marine

Serial #: C1-2400751

01-Mar-24

Cargo Identification								Conditions					
	Compat							Conditions of Carriage Vapor Recovery Special Regulations					
Name	CAS Number	Chem Code	Group	Sub Chapter	Grade	Hull Type	Tank Group	App'd	VCS	Special Requirements in 46 CFR 151 General and Mat'ls of Construction	Insp. Perio		
Oil, misc: Residual	68476-33-5	ORL	33	D	Е		А	Van			1 3.00		
Oil, misc: Turbine	N/A	ОТВ	33	D	E			Yes	1				
alpha-Olefins (C6-C18) mixtures	592-41-6	OAM		D	E		A	Yes	1				
Pentane (all isomers)	109-66-0	PTY	31	D	A			Yes	1				
Pentene (all isomers)	109-67-1	PTX	30	D	Α		A	Yes	5				
n-Pentyl propionate	624-54-4	PPE	34	D	D		A	Yes	5				
alpha-Pinene	7785-26-4	PIO	30	D	D		A	Yes	1				
beta-Pinene	127-91	PIP	30	D	D		A	Yes	1				
Poly(2-8)alkylene glycol monoalkyl (C1-C6) ether	N/A	PAG	40	D			A	Yes	1				
Poly(2-8)alkylene glycol monoalkyl (C1-C6) ether acetate		PAF	34	D	E		A	Yes	1				
Polybutene	9003-29-6	PLB	30	D	E		Α	Yes					
Polypropylene glycol	25322-69-4	PGC	40	D	E		Α		1				
Propionaldehyde	123-38-6	PAD	19	D	С		A	Yes	2				
Isopropyl acetate	108-21-4	IAC	34	D	С		A	Yes	1				
n-Propyl acetate	109-60-4	PAT	34	D	С		A	Yes	1				
Isopropyl alcohol	67-63-0	IPA	20 2,		С		A	Yes	1				
n-Propyl alcohol	71-23-8	PAL	20 2	D	С		A	Yes	1				
Propylbenzene (all isomers)	103-65-1	PBY	32	D	D		A	Yes	1				
sopropylcyclohexane	696-29-7	IPX	31	D	D		A	Yes	1				
Propylene glycol	57-55-6	PPG	20 2	D	E		A	Yes	1				
Propylene glycol methyl ether acetate	108-65-6	PGN	34	D	D		A	Yes	1				
Propylene tetramer	6842-15-5	PTT	30	D	D		A	Yes	1				
Sulfolane	126-33-0	SFL	39	D	E		A	Yes	1				
Fetraethylene glycol	112-60-7	TTG	40	D	E		A	Yes	1				
Fetrahydronaphthalene	119-64-2	THN	32	D	E		Α						
Fetramethylbenzene (all isomers)	527-53-7	TTC	32	D	#		A	Yes	1				
oluene	108-88-3	TOL	32	D	c			Yes					
ricresyl phosphate (containing less than 1% rtho isomer)	1330-78-5	TCP	34	D	E		A	Yes Yes	1				
riethylbenzene	102-25-0 (1,3,5)	TEB	32	D	E		A	Yes	1				
riethylene glycol	112-27-6	TEG	40	D	E		A	Yes	1				
riethyl phosphate	78-40-0	TPS	34	D	E		A		1				
rimethylbenzene (all isomers)	95-63-6 (1,2,4)	TRE	32	D	{D}		Α	Yes					

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United States Coast Guard

Certificate of Inspection

Cargo Authority Attachment

Official #: 1344136

Page 10 of 11

Shipyard: West Gulf Marine

Serial #: C1-2400751

Cargo Identification								Conditions of Carriage					
Name	CAS Number	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		
2,2,4-Trimethyl-1,3-pentanediol-1-isobutyrate	18491-15-1	TMP	34	D	E		Α	Yes	1				
Trixylyl phosphate	N/A	TRP	34	D	E		Α	Yes	111				
1-Undecene	821-95-4	UDC	30	D	D/E		Α	Yes	1				
Undecyl alcohol	112-42-5	UND	20	D	E		Α	Yes	1				
Xylenes	106-42-3	XLX	32	D	D		Α	Yes	1				



Department of Homeland Security United States Coast Guard

Serial #: C1-2400751

Dated: 01-Mar-24

Certificate of Inspection

Cargo Authority Attachment

Official #: 1344136

Page 11 of 11

Shipyard: West Gulf Mari

Hull #: 328

Explanation of terms & symbols used in the Table:

Cargo Identification Name

The propper shipping name as listed in 46 CFR Table 30.25-1, 46 CFR Table 151.05, and 46 CFR Part 153 Table 2.

Chem Code

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 daily reactive group number assigned for compatibility requirements of 46 CFR Part 150 (rables) range is responsible for ensuring that the compatibility requirements of 46 CFR Part 150 are met. Cargoes must be checked for compatibility using the figures, table and appendices of 46 CFR 150 in conjunction with the assigned reactive group number.

Note 1 Note 2 d appendices of 40 CFR 130 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 and the compatibility information, contact Commandant (CG-ENG-5), 2703 Martin Luther King Jr. Ave SE Stop 7509, Washington DC 20593-7509, Email:

hazmatstandards@uscg.mil. See Appendix I to 46 CFR Part 150 - exceptions to the compatability chart.

Subchapter Subchapter D 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.

Subchapter O Note 3

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

A, B, C

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

D. E Note 4 Flammable liquid cargoes, as defined in 46 CFR 30-10.22

Combustible liquid cargoes, as defined in 46 CFR 30-10.15

Combustole 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)(1).

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

Approved (Y or N)

Tank Group Vapor Recover

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 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 39.2011) and the pressure drop calculations (46 CFR 39.3001) 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 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 39.2009 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 (High vapor pressure) VCS pressure drop calculations for dargoes with a vapor pressure greater than 14.7 psid at 110 F must take into account increased vapor 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.

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