

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

Certification Date: 27 Oct 2022 **Expiration Date:** 27 Oct 2027

CMH No JII CALL

Certificate of Inspection

Vessel Name	MERCHANICAL PROPERTY.		Official Number	IMO Nur	nber	Cell Sign	Service	STATE OF STATE
KIRBY 113	23		1197932				Tank 6	Barge
Heiling Port								
WILMINGT	ON, DE		Hull Material Steel		epower	Propulsion		
UNITED ST	TATES							
Place Built			Delivery Date	Keel Leid Date	Gross Tons	Net Tone	DWT	Length
PALACIOS	, IX		20Jul2007	02Apr2007	R-735	R-735		R-200.0
UNITED ST	TATES				•			10
Owner KIRRY INL	AND MARINE L	P		Operet KIRI		MARINE LP		
	DR STE 1000			183	Market S	treet		
HOUSTON						/, TX 77530		
UNITED ST	AIES	Service.		UNI	TED STATE	3		
This vessel 0 Certified L	must be manne lifeboatmen, 0 (d with the f	ollowing licensed	and unilcense Type Rating,	d Personnel and 0 GMD	l. Included in w SS Operators.	hich there m	ust be
0 Masters	Contract to	0 Licensed i	Mates 0 Chief	Engineers	00	Hers		
0 Chief Ma	tes	0 First Class	Pilots 0 First	Assistant Enginee	Ma.			
0 Second N	/lates	0 Radio Offi	cers 0 Seco	nd Assistant Engl	neers	Such disc.		
0 Third Ma	les	0 Able Seam		Assistant Engine	ers			
	irst Class Pilot	0 Ordinary S	the barrier was the last to be	sed Engineers				
0 Mate Fire	t Class Pilots	0 Deckhand	s 0 Quali ssengers, 0 Othe	fled Member Engi		ns in addition to	n crew and a	o Others Total
In addition, Persons allo	wed: 0	carry u Pa	ssengers, o Oute	reisons in G	SW, 0 F 6150	is a accident to	, dien, die	
	mitted And Cor							
Lakes	Bays, and	Sounds	plus Limited	d Coastwis	8			
	in weather on	ly not me	ore than twelve	(12) miles	from shore	between St. M	tarks and Ca	arrabelle,
Plorida.	il weather on	1y, 1100 am						
This vessel	has been grau	nted a fre	ah water servi	ce examination	on interval	per 46 CFR 3	1.10-21(a)	(2). If this
			nore than 6 mon					
salt water change in a	tatus occurs.	40 CFK 3	(,10-21(8)(1)					
this tonk b	arge is partic	cipating i	n the Eighth C	oast Guard D	istrict's 1	Tank Barge Str	reamlined I	nspection Program
***SEE NE	XT PAGE FOR	RADDITIC	NAL CERTIFIC	CATE INFOR	MATION			In Ohanna Marina
nenection N	larine Safety Ur	nit Port Arti	tur certified the v	essel, in an rea	thur, TX, Ur spects, is in	conformity with	the applical	in Charge, Marine ble vessel inspection
aws and the	Annual/Peri	odic/Re-In	cribed thereunde	TABLE TO SET	his certificat	e issued by:	4/1/2	und
D-1-	A ACCES AND SHEET PARTY	A/P/R	Signatu	200	K.	A. Hantal, COR	USCG, By	direction
Date	BTK.LA	A	Daylan La		Scor in Charge, M	erine inspection	11/200	
129/23	Rela.	P	Ander GIL		15.17297	Marine Saleh	Unit Port A	rthur 💎
114	Transact States States St	ON 43480	BATTER BATTER ST	SUPPLIES OF THE PARTY OF THE PA	deter Zens	THE REPORT OF THE PARTY OF THE	CANAL PRINTER	



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(TBSIP). Inspection activities aboard this barge shall be conducted per its Tank Barge Action Plan (TAP). Inspection issues concerning this barge should be directed to OCMI Houston-Galveston.

---Hull Exams---

Exam Type

Next Exam

Last Exam

Prior Exam

DryDock

31Oct2032

27Oct2022

17Jul2017

Internal Structure

31Jul2027

A

27Oct2022

17Jul2017

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

Authorization:

FLAMMABLE/COMBUSTIBLE LIQUIDS AND SPECIFIED HAZARDOUS CARGOES

Total Capacity

Units

Highest Grade Type Part151 Regulated Part153 Regulated

Part154 Regulated

10776

Barrels

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	506	13.6
2	576	13.6
3	477	13.6

Loading Constraints - Stability

Hull Type	Maximum Load (short tons)	Maximum Draft (ft/in)	Max Density (lbs/gal)	Route Description
II	1597	9ft 6in	13.6	R
II	1597	9ft 6in	13.6	LBS
Ш	1752	10ft 4in	13.6	R
Ш	1752	10ft 4in	13.6	LBS
III	1818	10ft 6in	13.6	R

Conditions Of Carriage

Only those specified hazardous cargoes named in the vessel's Cargo Authority Attachment (CAA), serial # C1-2202191, dated 06 Jul 2022, may be carried. The specified hazardous cargoes may be carried only in the tanks indicated.

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

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

Per 46 CFR 39, excluding Part 39.4000, this vessel's vapor control system (VCS) has been inspected to the plans approved by Marine Safety Center letter serial # C2-0700195, dated 22 JAN 2007, and found acceptable for collection of bulk liquid cargo vapors annotated with "Yes" in the CAA's VCS column.

Stability and Trim Dept. of Home Sec., USCG, CG-841 (Rev 4-2000)(v2)

^{*}Vapor Control Authorization*



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

The maximum design density of cargo which may be filled to the tank top is 8.75 lbs/gal. Cargoes with higher densities, up to 13.6 lbs/gal, may be carried as slack loads, but shall not exceed the tank weight limits as listed above.

--- Inspection Status ---

Cargo Tanks

	Internal Exam	1		External Exar	m	
Tank Id	Previous	Last	Next	Previous	Last	Next
1	03Aug2017	27Oct2022	31Oct2032	-	-	-
2	03Aug2017	27Oct2022	31Oct2032	-	-	-
3	03Aug2017	27Oct2022	31Oct2032		-	-
2 2			Hydro Test			
Tank Id	Safety Valves	8	Previous	Last	Next	
1	-		-	18Jul2007	-	
2	-		-	18Jul2007	-	
3	-		-	18Jul2007	-	

---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

Quartit

2

40-B

END



Department of Homeland Security United States Coast Guard

Serial #:

C1-2202191

Dated:

d: 6-Jul-22

Certificate of Inspection

Cargo Authority Attachment

Official #: 1197932

Shipyard: Tres Palacios

Hull #: 104

	k Group Information	Tank Group Characterist nation Cargo Identification		ucs	Cargo	Tanks			Cargo Transfer		Environmental Control		Fire	Special Requirements				
Tnk Grp	Tanks in Group	Density	Press.	Temp.	Hull Typ	Sea	Туре	Vent	Gauge	Pipe Class	Cont	Tanks	Handling Space	Protection Provided	General	Materials of Construction	Elec Haz	Temp Cont
A	#1, #2, #3	13.6	Atmos.	Amb.	П	1ii 2ii	Integral Gravity	PV	Closed	1	G-1	NR	NA	Portable	40-1(f)(1), .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), 58 1(e),	NR 3-	No

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

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

List of Authorized Cargoes

Cargo Identificatio	n					Conditions of Carriage					
	Chem	Compat	Sub		Hull	Tank	Vapor R App'd	ecovery	Special Requirements in 46 CFR	Insp.	
Name	Code	Group No	Chapter	Grade	Туре	Group		Category	151 General and Mat'ls of	Period	
Authorized Subchapter O Cargoes											
Bis(2-ethylhexyl) terephthalate	PEC	34	D/O	E	II	Α	No	N/A	No	G	
Olefins (C13+, all isomers)	OFZ	30	D/O	E	III	Α	Yes	1	F	G	
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	E	II	Α	Yes	1	No	G	
Alkyl (C7-C9) nitrates	AKN	34 2	0	NA	Ш	Α	No	N/A	.50-81, .50-86	G	
Aluminum sulfate solution	ASX	43 2	03	NA	Ш	Α	No	N/A	.58-1(e)	G	
Aminoethyl ethanolamine	AEE	8	0	E	III	Α	Yes	1	.55-1(b)	G	
Ammonium bisulfite solution (70% or less)	ABX	43 2	0	NA	Ш	Α	No	N/A	.50-73, .56-1(a), (b), (c)	G	
Ammonium hydroxide (28% or less NH3)	AMH	6	0	NA	III	Α	No	N/A	.56-1(a), (b), (c), (f), (g)	G	
Anthracene oil (Coal tar fraction)	AHO	33	0	NA	- 11	Α	No	N/A	No	G	
Benzene	BNZ	32	0	С	III	Α	Yes	1	.50-60	G	
Benzene, C10-16 alkyl derivatives	BEN	D 32	0	D	III	Α	No	N/A		G	
Benzene and mixtures having 10% Benzene or more	внв	32 ²	0	С	111	Α	Yes	1	.50-60	G	
Benzene or hydrocarbon mixtures (containing Acetylene and 10% Benzene or more)	ВНА	32 ²	0	С	Ш	Α .	Yes	1	.50-60, .56-1(b), (d), (f), (g)	G	
Benzene, Toluene, Xylene mixtures (10% Benzene or more)	BTX	32	0	B/C	111	Α	Yes	1	.50-60	G	
Butyl acrylate (all isomers)	BAR	14	0	D	III	Α	Yes	2	.50-70(a), .50-81(a), (b)	G	
Butyl methacrylate	ВМН	14	0	D	111	Α	Yes	2	.50-70(a), .50-81(a), (b)	G	
Butyraldehyde (all isomers)	BAE	19	0	С	Ш	Α	Yes	1	.55-1(h)	G	
Camphor oil (light)	CPO	18	0	D	11	Α	No	N/A	No	G	
Carbon tetrachloride	СВТ	36	0	NA	III	Α	Yes	3	No	G	
Caustic potash solution	CPS	5 2	0	NA	III	Α	No	N/A	.50-73, .55-1(j)	G	
Caustic soda solution	CSS	5 2	0	NA	III	Α	No	N/A	.50-73, .55-1(j)	G	
Chlorobenzene	CRB	36	0	D	III	Α	Yes	1	No	G	
Chloroform	CRF	36	0	NA	111	Α	Yes	3	No	G	
Coal tar naphtha solvent	NCT	33	0	D	111	Α	Yes	1	.50-73	G	
Creosote	CCV	V 21 2	0	E	111	Α	Yes	1	No	G	
Cresols (all isomers)	CRS	21	0	Е	III	Α	Yes	1	No	G	
Cresylate spent caustic	CSC	5	0	NA	III	Α	No	N/A	.50-73, .55-1(b)	G	
Cresylic acid tar	CRX	21	0	E	III	Α	Yes	1	.55-1(f)	G	
Crotonaldehyde	СТА		2 0	С	11	Α	Yes	4	.55-1(h)	G	
Crude hydrocarbon feedstock (containing Butyraldehydes and Ethylpropyl acrolein)	CHG			С	III	Α	Yes	1	No	G	

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



Serial #: C1-2202191

6-Jul-22

Certificate of Inspection

Cargo Authority Attachment

Official #: 1197932

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Shipyard: Tres Palacios

Cargo Identification							Conditions of Carriage						
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	App'd	VCS Category	Special Requirements in 46 CFR 151 General and Mat'ls of Construction	Insp. Period			
Cyclohexanone	ССН	18	0	D	Ш	Α	Yes	1	.56-1(a), (b)	G			
Cyclohexanone, Cyclohexanol mixture	CYX	18 ²	0	Е	111	Α	Yes	1	.56-1 (b)	G			
Cyclohexylamine	CHA	7	0	D	III	Α	Yes	1	.56-1(a), (b), (c), (g)	G			
Cyclopentadiene, Styrene, Benzene mixture	CSB	30	0	D	111	Α	Yes	1	.50-60, .56-1(b)	G			
iso-Decyl acrylate	IAI	14	0	E	111	Α	Yes	2	.50-70(a), .50-81(a), (b), .55-1(c)	G			
Dichlorobenzene (all isomers)	DBX	36	0	E	III	Α	Yes	3	.56-1(a), (b)	G			
1,1-Dichloroethane	DCH	36	0	С	111	Α	Yes	1	No	G			
2,2'-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			
2,4-Dichlorophenoxyacetic acid, diethanolamine salt solution	DDE	43	0	E	111	Α	No	N/A	.56-1(a), (b), (c), (g)	G			
2,4-Dichlorophenoxyacetic acid, dimethylamine salt solution	DAD	0 1	2 0	Α	III	A	No	N/A		G			
2,4-Dichlorophenoxyacetic acid, triisopropanolamine salt solution	DTI	43 2		E	III	A	No	N/A	.56-1(a), (b), (c), (g)	G			
1,1-Dichloropropane	DPB	36	0	c	III	A	Yes	3	No	G			
1,2-Dichloropropane	DPP	36	0	c	111	A	Yes	3	No	G			
1,3-Dichloropropane	DPC	36	0	C	111	A	Yes	3	No	G			
1,3-Dichloropropene	DPU	15	0	D	- 11	A	Yes	4	No	G			
Dichloropropene, Dichloropropane mixtures	DMX	15	0	С	11	A	Yes		No				
Diethanolamine	DEA	8	0	E	- "	A		1	.55-1(c)	G			
Diethylamine	DEN	7		C	111		Yes	1	.55-1(c)	G			
Diethylenetriamine	DET	72		E		Α Α	Yes	3		G			
Diisobutylamine	DBU	7	0		111	Α .	Yes	1	.55-1(c)	G			
Diisopropanolamine	DIP	8	0	E	- 111	A	Yes	3	.55-1(c)	G			
Diisopropylamine	DIA	7			- 111	Α	Yes	1	.55-1(c)	G			
N,N-Dimethylacetamide	DAC		0	С	- 11	A	Yes	3	.55-1(c)	G			
Dimethylethanolamine		10	0	E		A	Yes	3	.56-1(b)	G			
Dimethylformamide	DMB	8	0	D	III	Α .	Yes	1	.56-1(b), (c)	G			
	DMF	10	0	D	III	Α	Yes	1	.55-1(e)	G			
Di-n-propylamine 1-Dodecene	DNA	7	0	С	Ш	Α	Yes	3	.55-1(c)	G			
	DDC	30	0	E	11	A	No	N/A	No	G			
Dodecyldimethylamine, Tetradecyldimethylamine mixture	DOT	7	0	E	III	Α	No	N/A	.56-1(b)	G			
Dodecyl diphenyl ether disulfonate solution	DOS	43	0	#	11	Α	No	N/A	No	G			
EE Glycol Ether Mixture	EEG	40	0	D	111	A	No	N/A	No	G			
Ethanolamine	MEA	8	0	E	111	Α	Yes	1	.55-1(c)	G			
Ethyl acrylate	EAC	14	0	С	111	Α	Yes	2	.50-70(a), .50-81(a), (b)	G			
Ethylamine solutions (72% or less)	EAN	7	0	Α	II	Α	No	N/A	.55-1(b)	G			
N-Ethylbutylamine	EBA	7	0	D	Ш	Α	Yes	3	.55-1(b)	G			
N-Ethylcyclohexylamine	ECC	7	0	D	Ш	Α	Yes	1	.55-1(b)	G			
Ethylene cyanohydrin	ETC	20	0	E	III	Α	Yes	1	No	G			
Ethylenediamine	EDA	72	0	D	Ш	Α	Yes	1	.55-1(c)	G			
Ethylene dichloride	EDC	36 ²	0	C	Ш	Α	Yes	1	No	G			
Ethylene glycol hexyl ether	EGH	40	0	E	Ш	Α	No	N/A	No	G			
Ethylene glycol monoalkyl ethers	EGC	40	0	D/E	Ш	Α	Yes	1	No	G			
Ethylene glycol propyl ether	EGP	40	0	E	III	Α	Yes	1	No	G			
2-Ethylhexyl acrylate	EAI	14	0	E	Ш	Α	Yes	2	.50-70(a), .50-81(a), (b)	G			
Ethyl methacrylate	ETM	14	0	D/E	Ш	Α	Yes	2	.50-70(a)	G			
2-Ethyl-3-propylacrolein	EPA	19 ²	0	E	Ш	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	Ш	Α	Yes	1	.55-1(h)	G			



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Cargo Authority Attachment

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Shipyard: Tres Palacios

Cargo Identification								Conditions of Carriage							
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	App'd	Recovery VCS Category	Special Requirements in 46 CFR 151 General and Mat'ls of Construction	Insp. Period					
Glutaraldehyde solutions (50% or less)	GTA	19	0	NA	III	Α	No	N/A	No	G					
Glyoxylic Acid Solution (50% or less)	GAC	4	0	E	III	Α	No	N/A	.50-73, .50-81, .58-1(e)	G					
Hexamethylenediamine solution	НМС	7	0	E	III	Α	Yes	1	.55-1(c)	G					
Hexamethyleneimine	НМІ	7	0	С	II	Α	Yes	1	.56-1(b), (c)	G					
Isoprene	IPR	30	0	Α	III	Α	No	N/A	.50-70(a), .50-81(a), (b)	G					
Isoprene, Pentadiene mixture	IPN	30	0	В	III	Α	No	N/A	.50-70(a), .55-1(c)	G					
Kraft pulping liquors (free alkali content 3% or more)(including: Black, Green, or White liquor)	KPL	5	0	NA	III	Α	No	N/A	.50-73, .56-1(a), (c), (g)	G					
Mesityl oxide	MSO	18 2	0	D	III	Α	Yes	1	No	G					
Methyl acrylate	MAM	14	0	С	111	Α	Yes	2	.50-70(a), .50-81(a), (b)	G					
Methylcyclopentadiene dimer	MCK	30	0	С	III	Α	Yes	1	No	G					
Methyl diethanolamine	MDE	8	0	E	III	. A	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	MMN	1 14	0	С	III	Α	Yes	2	.50-70(a), .50-81(a), (b)	G					
2-Methylpyridine	MPR	9	0	D	III	Α	Yes	3	.55-1(c)	G					
alpha-Methylstyrene	MSR	30	0	D	III	A	Yes	2	.50-70(a), .50-81(a), (b)	G					
Morpholine	MPL	7 2	. 0	D	III	Α	Yes		.55-1(c)	G					
Nitroethane	NTE	42	0	D	11	A	No	N/A	.50-81, .56-1(b)	G					
1- or 2-Nitropropane	NPM	42	0	D	III	A	Yes		.50-81	G					
1,3-Pentadiene	PDE	30	0	Α	111	A	No	N/A	.50-70(a), .50-81	G					
Perchloroethylene	PER	36	0	NA	111	A	No	N/A		G					
Polyethylene polyamines	PEB	72		E	111	A	Yes		.55-1(e)	G					
Potassium chloride solution (brine)	PCSI		0	NA	111	A	No	N/A		G					
iso-Propanolamine	MPA	8	0	E	III	A	Yes		.55-1(c)	G					
Propanolamine (iso-, n-)	PAX	8	0	E	111	A	Yes		.56-1(b), (c)	G					
Isopropylamine	IPP	7	0	A		A	Yes		.55-1(c)	G					
Pyridine	PRD	9	0	C	III	A	Yes		.55-1(e)	G					
Sodium aluminate solution (45% or less)	SAU	5	0	NA	III	A	No	N/A		G					
Sodium chlorate solution (50% or less)	SDD	0 1		NA	III	A	No	N/A		G					
Sodium hypochlorite solution (20% or less)	SHQ	5	0	NA	111	A	No	N/A		G					
Sodium sulfide, hydrosulfide solution (H2S 15 ppm or less)	SSH	0 1		NA	III	A	Yes		.50-73, .55-1(b)	G					
Sodium sulfide, hydrosulfide solution (H2S greater than 15 ppm but less than 200 ppm)	SSI	0 1	5.5	NA	111	A	No	N/A		G					
Sodium sulfide, hydrosulfide solution (H2S greater than 200 ppm)	SSJ	0 1	1,2 0	NA	11	Α	No	N/A	.50-73, .55-1(b)	G					
Spent Caustic Soda Solution (containing up to 0.1% Benzene)	SCS		0	NA	111	A	No	N/A		G					
Styrene monomer	STY	30	0	D	111	A	Yes		.50-70(a), .50-81(a), (b)	G					
Tetrachloroethane	TEC	36	0	NA	III	A	No	N/A		G					
Tetraethylene pentamine	TTP	7	0	E	111	A	Yes		.55-1(c)	G					
Tetrahydrofuran	THE	41	0	C	111	A	Yes		.50-70(b)	G					
1,2,4-Trichlorobenzene	TCB	36	0	E	III	A	Yes		No	G					
1,1,2-Trichloroethane	TCM		0	NA	111	A	Yes		.50-73, .56-1(a)	G					
Trichloroethylene	TCL	36		NA	III	A	Yes	-	No	G					
1,2,3-Trichloropropane	TCN		0	E	11	A	Yes		.50-73, .56-1(a)	G					
Triethanolamine	TEA			E	111	A	Yes		.55-1(b)	G					
Triethylamine	TEN		0		11	A	Yes		.55-1(e)	G					
	TET	7		E	- 111	A	Yes		.55-1(b)	G					
Triethylenetetramine	TPB	5	0	NA.	111	A	No	N/A		G					
Triphenylborane (10% or less), caustic soda solution										G					
Trisodium phosphate solution	TSP	5	0	NA	III	Α	No	N/A							



Official #: 1197932

Dibutyl phthalate

Serial #: C1-2202191

Dated: 6-Jul-22

Certificate of Inspection

Cargo Authority Attachment

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Shipyard: Tres Palacios

Official #. 1197932			raye 4	UI 9					nuii #. 104		
Cargo Identification	n					Conditions of Carriage					
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	App'd	VCS Category	Special Requirements in 46 CFR 151 General and Mat'ls of Construction	In Pe	
Urea, Ammonium nitrate solution (containing more than 2% NH3)	UAS	6	0	NA	111	Α	No	N/A	.56-1(b)	c	
Vanillin black liquor (free alkali content, 3% or more).	VBL	5	0	NA	111	Α	No	N/A	.50-73, .56-1(a), (c), (g)	0	
Vinyl acetate	VAM	13	0	С	III	Α	Yes	2	.50-70(a), .50-81(a), (b)	(
Vinyl neodecanoate	VND	13	0	E	111	Α	No	N/A	.50-70(a), .50-81(a), (b)	(
Vinyltoluene	VNT	13	0	D	- 111	Α	Yes	2	.50-70(a), .50-81, .56-1(a), (b), (c), (
Subchapter D Cargoes Authorized for Vapor Contr		18 ²									
Acetone	ACT			<u> </u>		A	Yes	1		_	
Acetophenone	ACP	18	D	E		A	Yes	1			
Alcohol (C12-C16) poly(20+) ethoxylates	APW	20	D	E		Α	Yes	1			
Alcohol (C6-C17) (secondary) poly(3-6) ethoxylates	AEA	20	D	E		Α	Yes	1			
Alcohol (C6-C17) (secondary) poly(7-12) ethoxylates	AEB	20	D	E		Α	Yes	1	10000 L C 12		
Amyl acetate (all isomers)	AEC	34	D	D		Α	Yes	1	The same		
Amyl alcohol (iso-, n-, sec-, primary)	AAI	20	D	D		Α	Yes	1			
Benzyl acetate	BZE	34	D	E		Α	Yes	1			
Benzyl alcohol	BAL	21	D	Е		Α	Yes	1			
Brake fluid base mixtures (containing Poly(2-8)alkylene(C2-C3) glycols, Polyalkylene(C2-C10) glycol monoalkyl(C1-C4) ethers, and their borate esters)	BFY	20	D	Е		Α	Yes	1			
Butyl acetate (all isomers)	BAX	34	D	D		Α	Yes	1			
Isobutyl alcohol	IAL	20 2	D	D		Α	Yes	1			
Butyl alcohol (n-)	BAN	20 2	D	D		Α	Yes	1			
Butyl alcohol (sec-)	BAS	20 2	D	С		Α	Yes	1			
tert-Butyl Alcohol	BAT	20 2		С		Α	Yes	1		-	
Butyl benzyl phthalate	ВРН	34	D	E		A	Yes	1			
Butyl toluene	BUE	32	D			A	Yes	1			
Caprolactam solutions	CLS	22	D	E		A	Yes	1	1.0		
Cycloheptane	CYE	31	D	С		A	Yes	1			
Cyclohexane	CHX	31	D	С		A	Yes				
Cyclohexanol	CHN	20	D	E				1			
Cyclohexyl acetate	CYC	34	D	D		A	Yes	1			
1,3-Cyclopentadiene dimer (molten)	CPD	30	D	D/E		A	Yes	1			
Cyclopentane Cyclopentane	CYP				<u> </u>	A	Yes	2			
p-Cymene		31	D	В		Α.	Yes	1			
	CMP	32	D	D		A	Yes	1			
iso-Decaldehyde	IDA	19	D	E		A	Yes	1			
n-Decaldehyde	DAL	19	D	E		A	Yes	1			
Decanoic acid	DCO	4	D	#		Α	Yes	1			
Decene	DCE	30	D	D		Α	Yes	1			
Decyl alcohol (all isomers)	DAX	20 2	D	E		Α	Yes	1			
n-Decylbenzene, see Alkyl(C9+)benzenes	DBZ	32	D	E		Α	Yes	1			
Diacetone alcohol	DAA	20 ²	D	D		Α	Yes	1			
Dibuted abthalata											

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



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Shipyard: Tres Palacios

C1-2202191

6-Jul-22

Delitylphorazene	Cargo Identification	Conditions of Carriage									
Delin Deli	Name		Group		Grade			App'd	VCS	151 General and Mat'ls of	Insp. Period
Discobutylene	Diethylbenzene	DEB	32	D	D		Α	Yes	1	of dest	
Discorption Dik 18	Diethylene glycol	DEG	40	D	E		Α	Yes	1	110	
Disporting Dis	Diisobutylene	DBL	30	D	С		Α	Yes	1		1,000
Dimethyl phthalate	Diisobutyl ketone	DIK	18	D	D		Α	Yes	1		- 11 ;
Dimetry phthalate	Diisopropylbenzene (all isomers)	DIX	32	D	E		Α	Yes	1		
Dipententene	Dimethyl phthalate	DTL	34	D	E		Α	Yes	1	3.5	18 40.
Diphenyl Diphenyl Dil. 32	Dioctyl phthalate	DOP	34	D	Ε		Α	Yes	1		
Diphenyl	Dipentene	DPN	30	D	D					137	
Diphenyl Diphenyl ether mixtures	Diphenyl	DIL	32	D	D/E					F. 1	
Diplomy either	Diphenyl, Diphenyl ether mixtures	DDO	33	D	-						
Diproprience glycol DPG 40	Diphenyl ether	DPE	41	D							
Distillates: Flashed feed stocks	Dipropylene glycol	DPG									
Distillates: Straight run	Distillates: Flashed feed stocks										100 113
DOZ 30	Distillates: Straight run	mesausia.									
DDB 32 D E	Dodecene (all isomers)										T.
EEHoxyethyl acetate	Dodecylbenzene	37490938									
Ethoxy triglycol (crude) ETG 40 D E A Yes 1 Ethyl acetate ETA 34 D C A Yes 1 Ethyl acetoacetate EAA 34 D E A Yes 1 Ethyl alcohol EAL 20 2 D C A Yes 1 Ethyl butyl but and Ethyl ether EBT 20 D D A Yes 1 Ethyl butyrate EBR 34 D D A Yes 1 Ethyl cyclobexane ECY 31 D D A Yes 1 Ethylene glycol butyl ether acetate EMA 34 D E A Yes 1 Ethylene glycol diacetate EGY 34 D E A Yes 1 Ethylene glycol diacetate EGY 34 D E A Yes 1 Ethylene glycol diacetate EGY 34 D E A Yes 1 Ethylene glycol diacetate EGY 34 D E A Yes 1 Ethylene glycol diacetate EGY 34 D E A Yes 1 Ethylene glycol phenyl ether EBP 40 D E A Yes 1 Ethylene glycol phenyl ether EBP 34 D D D A Yes 1 Ethylene glycol phenyl ether EBP 34 D D D A Yes 1 Ethylene glycol phenyl ether EBP 34 D D D A Yes 1	2-Ethoxyethyl acetate										
Ethyl acetate		100000000									1
Ethyl acetoacetate	Ethyl acetate										
Ethyl alcohol			2000					100			
Ethyl benzene ETB 32 D C A Yes 1 Ethyl butanol EBT 20 D D A Yes 1 Ethyl tert-butyl ether EBE 41 D C A Yes 1 Ethyl butyrate EBR 34 D D A Yes 1 Ethyl cyclohexane ECY 31 D D A Yes 1 Ethylene glycol EGL 20 2 D E A Yes 1 Ethylene glycol butyl ether acetate EMA 34 D E A Yes 1 Ethylene glycol diacetate EMA 34 D E A Yes 1 Ethylene glycol diacetate EMA 34 D E A Yes 1 Ethylene glycol phenyl ether acetate EGY 34 D E A Yes 1 Ethylene glycol phenyl ether EPE 40 D E A Yes 1 Ethylene glycol phenyl ether EPE 40 D E A Yes 1 Ethylene glycol phenyl ether EPE 34 D D A Yes 1 Ethylenanol EHX 20 D E A Yes 1 Ethyl propionate EPR 34 D C A Yes 1 Ethyl propionate EPR 34 D C A Yes 1 Ethyl toluene ETE 32 D D A Yes 1 ETHYL toluene ETE 32 D D A Yes 1 ETHYL toluene ETHYL	Ethyl alcohol	11000000			1000						
Ethyl butanol	•	20000000	5965	7.5							
Ethyl tert-butyl ether EBB 41 D C A Yes 1 Ethyl butyrate EBR 34 D D A Yes 1 Ethyl cyclohexane ECY 31 D D A Yes 1 Ethylene glycol EGL 20 2 D E A Yes 1 Ethylene glycol butyl ether acetate EMA 34 D E A Yes 1 Ethylene glycol diacetate EMA 34 D E A Yes 1 Ethylene glycol phenyl ether Ethylene glycol phenyl ether EPE 40 D E A Yes 1 Ethylene glycol phenyl ether EEthylene glycol phenyl ether EPE 34 D D A Yes 1 Ethylexanol EHX 20 D E A Yes 1 Ethyl propionate EPR 34 D C A Yes 1 Ethyl propionate EPR 34 D C A Yes 1 Ethyl propionate ETH 32 D D A Yes 1 Ethyl toluene ETE 32 D D A Yes 1 Ethyl toluene ETE 32 D D A Yes 1 Ethyl toluene ETE 32 D D A Yes 1 Ethyl toluene ETE 32 D D A Yes 1 Ethyl toluene ETE 32 D D A Yes 1 Ethyl toluene ETE 32 D D A Yes 1 Ethyl toluene ETE 32 D D A Yes 1 Ethyl toluene ETH 32 D D A Yes 1 Ethyl toluene ETH 32 D D A Yes 1 Ethyl toluene ETH 32 D D A Yes 1 Ethyl toluene ETH 32 D D A Yes 1 Ethyl toluene ETH 32 D D A Yes 1 Ethyl toluene ETH 32 D D A Yes 1 Ethyl toluene ETH 32 D D A Yes 1 Ethyl toluene ETH 32 D D A Yes 1 Ethyl toluene ETH 32 D D A Yes 1 Ethyl toluene ETH 32 D D A Yes 1 Ethyl toluene ETH 32 D D A Yes 1 Ethyl toluene ETH 32 D D A Yes 1 Ethylene toluene ETH 32 D D A Yes 1 Ethylene toluene ETH 32 D D A Yes 1 Ethylene toluene ETH 32 D D A Yes 1 Ethylene toluene ETH 32 D D A Yes 1 Ethylene toluene ETH 32 D D A Yes 1 ETHYLENE TO											
Ethyl butyrate							-				
Ethyl cyclohexane	Marin Sak of Tree					TE					
Ethylene glycol butyl ether acetate		2722200	1								
Ethylene glycol butyl ether acetate) paratisation				11		1000			7
Ethylene glycol diacetate										000	-
Ethylene glycol phenyl ether											
Ethyl-3-ethoxypropionate		-									
EHX 20 D E A Yes 1						-					
Ethyl propionate		0.0000000000000000000000000000000000000			942.4						
Ethyl toluene											
Formamide		4-747	0.0000				50				
Furfuryl alcohol FAL 20 2 D E A Yes 1 Gasoline blending stocks: Alkylates GAK 33 D C A Yes 1 Gasoline blending stocks: Reformates GRF 33 D C A Yes 1 Gasolines: Automotive (containing not over 4.23 grams lead per gallon) GAT 33 D A/C A Yes 1						7					
Gasoline blending stocks: Alkylates GAK 33 D C A Yes 1 Gasoline blending stocks: Reformates GRF 33 D C A Yes 1 Gasolines: Automotive (containing not over 4.23 grams lead per gallon) GAT 33 D A/C A Yes 1								1987537			
Gasoline blending stocks: Reformates GRF 33 D C A Yes 1 Gasolines: Automotive (containing not over 4.23 grams lead per gallon) GAT 33 D A/C A Yes 1											
Gasolines: Automotive (containing not over 4.23 grams lead per gallon) GAT 33 D A/C A Yes 1											
	•										
				D	C A/C		A	Yes	1		



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Cargo Identificatio	n					3		Condi	tions of Carriage	
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	App'd	Recovery VCS Category	Special Requirements in 46 CFR 151 General and Mat'ls of Construction	Insp. Period
Gasolines: Casinghead (natural)	GCS	33	D	A/C		^	Yes	1		
Gasolines: Polymer	GPL	33	D	c		A	Yes	1		
Gasolines: Straight run	GSR		D	A/C		A	Yes	1		
Glycerine	GCR			E		A	Yes	1		
Heptane (all isomers)	НМХ		D	C		A	Yes	1		
n-Heptanoic acid	HEN		D	E		A	Yes	1		160
Heptanol (all isomers)	HTX	20	D	D/E		A	Yes	1		
Heptene (all isomers)	HPX	30	D	C		A	Yes	2		
Heptyl acetate	HPE	34	D	E		A	Yes	1		
Hexane (all isomers)	HXS			B/C		A	Yes	<u>'</u>		
Hexanoic acid	нхо		D	E		A	Yes	1		
Hexanol	HXN		D		-	A	Yes	1		
Hexene (all isomers)	HEX		D	С		A	Yes	2		
Hexylene glycol	HXG		D	E		A	Yes	1		
Isophorone	IPH	18 2		E		A	Yes	1	,	
Jet fuel: JP-4	JPF	33	D	E		A	Yes	1		
Jet fuel: JP-5 (kerosene, heavy)	JPV	33	D	D		A	Yes	1		
Kerosene	KRS	33	D	D		A	Yes	1		
Lauric acid	LRA	34	D	#		A	Yes	1		
Methyl acetate	MTT	34	D			A	Yes	1		
Methyl alcohol	MAL	20 2		C		A	Yes	1		
Methylamyl acetate	MAC		D	D		A	Yes	1		
Methylamyl alcohol	MAA		D	D		A	Yes	1		
Methyl amyl ketone	MAK		D	D		A	Yes	1		
Methyl tert-butyl ether	MBE			С		A	Yes	1		
Methyl butyl ketone	MBK		D	С		A	Yes	1		
Methyl butyrate	MBU		D	c		A	Yes	1		
Methylcyclohexane	MCY		D	c		A	Yes	1		
Methyl ethyl ketone	MEK			С		A	Yes	1		
Methyl heptyl ketone	МНК		D	D		A	Yes	1		
2-Methyl-2-hydroxy-3-butyne	мнв		D	С		A	Yes	1		
Methyl isobutyl ketone	MIK	18 2		C		A	Yes	1		
Mineral spirits	MNS		D	D		A	Yes	1		
Myrcene	MRE		D	D		A	Yes	1		
Naphtha: Heavy	NAG		D	#		A	Yes	1		
Naphtha: Petroleum	PTN	33	D	#		A	Yes	1		
Naphtha: Solvent	NSV		D			A	Yes	1		
Naphtha: Stoddard solvent	NSS		D	D		A	Yes	1		
Naphtha: Varnish makers and painters (75%)	NVM		D	С		A	Yes	1		
Neodecanoic acid	NEA		D	E		A	Yes	1		
		•					103			



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Shipyard: Tres Palacios

Nonane (all isomers)	Cargo Identification	Conditions of Carriage									
Name		Chem	Compat	Sub		Hull	Tank	Vapor F	Recovery	Special Requirements in 46 CFR	
None (all isomers)	Name				Grade			(Y or N)	Category	Construction	Period
None (all isomers)	Nonane (all isomers)	NAX	31	D	D		Α	Yes	1		ALÉ .
Nonyl phenol	Nonene (all isomers)	NON	30	D	D		Α	Yes	2		E7
Nonyl phenol poly(4+)ethoxylates	Nonyl alcohol (all isomers)	NNS	20 2	. D	E		Α	Yes	1	in the state of	
Octane (all isomers)	Nonyl phenol	NNP	21	D	E		Α	Yes	1 -	The second second	- 1
Octanoic acid (all isomers)	Nonyl phenol poly(4+)ethoxylates	NPE	40	D	E		Α	Yes	1		10
Octanol (all isomers)	Octane (all isomers)	OAX	31	D	С		Α	Yes	1	i a Switch	1 10 10
Octame (all isomers)	Octanoic acid (all isomers)	OAY	4	D	Е		Α	Yes	1		
Oil, fuel: No. 2 OTW 33 D D/E A Yes 1 Oil, fuel: No. 2-D OTD 33 D D A Yes 1 Oil, fuel: No. 4 OFR 33 D D/E A Yes 1 Oil, fuel: No. 5 OFV 33 D D/E A Yes 1 Oil, fuel: No. 6 OSX 33 D E A Yes 1 Oil, misc: Crude OIL 33 D A/D A Yes 1 Oil, misc: Diesel ODS 33 D D/E A Yes 1 Oil, misc: Diesel OBS 33 D E A Yes 1 Oil, misc: Cash, high pour OGP 33 D E A Yes 1 Oil, misc: Eubricating OLB 33 D E A Yes 1 Oil, misc: Turbine ORL 33 D E A Yes 1 Oil, misc: Turbine OTB 33 D E A Yes 1 Pentane (all isomers) PTY 31 D A A Ye	Octanol (all isomers)	осх	20 2	. D	E		Α	Yes	1		Anger
Oil, fuel: No. 2-D	Octene (all isomers)	ОТХ	30	D	С		Α	Yes	2		
Oil, fuel: No. 4	Oil, fuel: No. 2	ОТИ	/ 33	D	D/E		Α	Yes	1	, le 1	
Oil, fuel: No. 5	Oil, fuel: No. 2-D	OTD	33	D	D		Α	Yes	1		
Oil, fuel: No. 6 OSX 33 D E A Yes 1 Oil, misc: Crude Oil, misc: Diesel ODS 33 D A/D A Yes 1 Oil, misc: Diesel ODS 33 D D/E A Yes 1 Oil, misc: Gas, high pour OGP 33 D E A Yes 1 Oil, misc: Lubricating OLB 33 D E A Yes 1 Oil, misc: Residual ORL 33 D E A Yes 1 Oil, misc: Turbine OTB 33 D E A Yes 1 Oil, misc: Cescidual ORL 33 D E A Yes 1 Oil, misc: Cescidual ORL 33 D E A Yes 1 Oil, misc: Cescidual ORL 33 D E A Yes 1 Oil, misc: Cescidual ORL	Oil, fuel: No. 4	OFR	33	D	D/E		Α	Yes	1		4 1 0
Oil, misc: Crude	Oil, fuel: No. 5	OFV	33	D	D/E		Α	Yes	1		
Oil, misc: Diese ODS 33	Oil, fuel: No. 6	OSX	33	D	E		Α	Yes	1		
Oil, misc: Gas, high pour OGP 33 D E A Yes 1 Oil, misc: Lubricating OLB 33 D E A Yes 1 Oil, misc: Residual ORL 33 D E A Yes 1 Oil, misc: Turbine OTB 33 D E A Yes 1 alpha-Olefins (C6-C18) mixtures OAM 30 D E A Yes 1 Pentane (all isomers) PTY 31 D A A Yes 5 Pentane (all isomers) PTX 30 D A A Yes 5 Pentane (all isomers) PTX 30 D A A Yes 5 Pentane (all isomers) PTX 30 D A A Yes 5 Pentane (all isomers) PTX 30 D A A Yes 5 n-Pentyl propionate PPE	Oil, misc: Crude	OIL	33	D	A/D		Α	Yes	1		
Oil, misc: Lubricating OLB 33 D E A Yes 1 Oil, misc: Residual ORL 33 D E A Yes 1 Oil, misc: Turbine OTB 33 D E A Yes 1 alpha-Olefins (C6-C18) mixtures OAM 30 D E A Yes 1 Pentane (all isomers) PTY 31 D A A Yes 5 Pentene (all isomers) PTX 30 D A A Yes 5 Pentene (all isomers) PTX 30 D A A Yes 5 Pentene (all isomers) PTX 30 D A A Yes 5 Pentene (all isomers) PTX 30 D A Yes 1 alpha-Pinene PPE 34 D D A Yes 1 beta-Pinene PIP 30 D	Oil, misc: Diesel	ODS	33	D	D/E		Α	Yes	1	2.	
Oil, misc: Residual ORL 33 D E A Yes 1 Oil, misc: Turbine OTB 33 D E A Yes 1 alpha-Olefins (C6-C18) mixtures OAM 30 D E A Yes 1 Pentane (all isomers) PTY 31 D A A Yes 5 Pentene (all isomers) PTX 30 D A A Yes 5 Pentene (all isomers) PTX 30 D A A Yes 5 Pentene (all isomers) PTX 30 D A A Yes 5 n-Pentene (all isomers) PTX 30 D A A Yes 5 n-Pentene (all isomers) PTX 30 D D A Yes 1 alpha-Pinene PPE 34 D D A Yes 1 Polyc2-8)alkylene glycol monoalkyl (C1-C6) ether acetate	Oil, misc: Gas, high pour	OGP	33	D	Е		Α	Yes	1		
Oil, misc: Turbine OTB 33 D E A Yes 1 alpha-Olefins (C6-C18) mixtures OAM 30 D E A Yes 1 Pentane (all isomers) PTX 31 D A A Yes 5 Pentene (all isomers) PTX 30 D A A Yes 5 n-Pentyl propionate PPE 34 D D A Yes 1 alpha-Pinene PIO 30 D D A Yes 1 beta-Pinene PIO 30 D D A Yes 1 beta-Pinene PIO 30 D D A Yes 1 beta-Pinene PIO 30 D D A Yes 1 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	Oil, misc: Lubricating	OLB	33	D	E		Α	Yes	. 1		
A Yes 1	Oil, misc: Residual	ORL	33	D	Е		Α	Yes	1		
Pentane (all isomers) PTY 31 D A A Yes 5 Pentene (all isomers) PTX 30 D A A Yes 5 n-Pentyl propionate PPE 34 D D A Yes 1 alpha-Pinene PIO 30 D D A Yes 1 beta-Pinene PIP 30 D D A Yes 1 Poly(2-8)alkylene glycol monoalkyl (C1-C6) ether PAG 40 D E A Yes 1 Polybutene PLB 30 D E A Yes 1 Polypropylene glycol PGC 40 D E A Yes 1 Propionaldehyde PAD 19 D C A Yes 1 Propionaldehyde PAD 19 D C A Yes 1 Isopropyl acetate PAT 34 D <td>Oil, misc: Turbine</td> <td>ОТВ</td> <td>33</td> <td>D</td> <td>E</td> <td></td> <td>Α</td> <td>Yes</td> <td>1</td> <td></td> <td></td>	Oil, misc: Turbine	ОТВ	33	D	E		Α	Yes	1		
Pentene (all isomers) PTX 30 D A A Yes 5 n-Pentyl propionate PPE 34 D D A Yes 1 alpha-Pinene PIO 30 D D A Yes 1 beta-Pinene PIP 30 D D A Yes 1 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 A Yes 1 Polypropylene glycol PLB 30 D E A Yes 1 Propionaldehyde PAD 19 D C A Yes 2 Isopropyl acetate IAC 34 D C A Yes 1 Isopropyl alcohol IPA 20 2.3 D C A Yes 1 Isopropyl alcohol <t< td=""><td>alpha-Olefins (C6-C18) mixtures</td><td>OAM</td><td>30</td><td>D</td><td>Е</td><td></td><td>Α</td><td>Yes</td><td>1</td><td></td><td></td></t<>	alpha-Olefins (C6-C18) mixtures	OAM	30	D	Е		Α	Yes	1		
n-Pentyl propionate PPE 34 D D A Yes 1 alpha-Pinene PIO 30 D D A Yes 1 beta-Pinene PIP 30 D D A Yes 1 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 A Yes 1 Polypubutene PLB 30 D E A Yes 1 Polypropylene glycol PGC 40 D E A Yes 1 Propionaldehyde PAD 19 D C A Yes 2 Isopropyl acetate IAC 34 D C A Yes 1 n-Propyl alcohol IPA 20 2.3 D C A Yes 1 Isopropyl alcohol PAL	Pentane (all isomers)	PTY	31	D	Α		Α	Yes	5		
alpha-Pinene PIO 30 D D A Yes 1 beta-Pinene PIP 30 D D D A Yes 1 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 A Yes 1 Polybutene PLB 30 D E A Yes 1 Polypropylene glycol PGC 40 D E A Yes 1 Propionaldehyde PAD 19 D C A Yes 2 Isopropyl acetate IAC 34 D C A Yes 1 Isopropyl alcohol IPA 20 2.3 D C A Yes 1 Isopropyl alcohol PAL 20 2 D C A Yes 1	Pentene (all isomers)	PTX	30	D	Α		Α	Yes	5		
beta-Pinene PIP 30 D D A Yes 1 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 A Yes 1 Polybutene PLB 30 D E A Yes 1 Polypropylene glycol PGC 40 D E A Yes 1 Propionaldehyde PAD 19 D C A Yes 2 Isopropyl acetate IAC 34 D C A Yes 1 n-Propyl acetate PAT 34 D C A Yes 1 Isopropyl alcohol IPA 20 2.3 D C A Yes 1 n-Propyl alcohol PAL 20 2 D C A Yes 1	n-Pentyl propionate	PPE	34	D	D		Α	Yes	1		
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 A Yes 1 Polyptoutene PLB 30 D E A Yes 1 Polypropylene glycol PGC 40 D E A Yes 1 Propionaldehyde PAD 19 D C A Yes 2 Isopropyl acetate IAC 34 D C A Yes 1 n-Propyl acetate PAT 34 D C A Yes 1 Isopropyl alcohol IPA 20 2.3 D C A Yes 1 n-Propyl alcohol PAL 20 2 D C A Yes 1	alpha-Pinene	PIO	30	D	D		Α	Yes	1		
Poly(2-8)alkylene glycol monoalkyl (C1-C6) ether acetate PAF 34 D E A Yes 1 Polybutene PLB 30 D E A Yes 1 Polypropylene glycol PGC 40 D E A Yes 1 Propionaldehyde PAD 19 D C A Yes 2 Isopropyl acetate IAC 34 D C A Yes 1 n-Propyl acetate PAT 34 D C A Yes 1 Isopropyl alcohol IPA 20 2.3 D C A Yes 1 n-Propyl alcohol PAL 20 2 D C A Yes 1	beta-Pinene	PIP	30	D	D		Α	Yes	1		
Polybutene PLB 30 D E A Yes 1 Polypropylene glycol PGC 40 D E A Yes 1 Propionaldehyde PAD 19 D C A Yes 2 Isopropyl acetate IAC 34 D C A Yes 1 n-Propyl acetate PAT 34 D C A Yes 1 Isopropyl alcohol IPA 20 2.3 D C A Yes 1 n-Propyl alcohol PAL 20 2 D C A Yes 1	Poly(2-8)alkylene glycol monoalkyl (C1-C6) ether	PAG	40	D	E		Α	Yes	1		
Polypropylene glycol PGC 40 D E A Yes 1 Propionaldehyde PAD 19 D C A Yes 2 Isopropyl acetate IAC 34 D C A Yes 1 n-Propyl acetate PAT 34 D C A Yes 1 Isopropyl alcohol IPA 20 2.3 D C A Yes 1 n-Propyl alcohol PAL 20 2 D C A Yes 1	Poly(2-8)alkylene glycol monoalkyl (C1-C6) ether acetate	PAF	34	D	E		Α	Yes	1		
Propionaldehyde PAD 19 D C A Yes 2 Isopropyl acetate IAC 34 D C A Yes 1 n-Propyl acetate PAT 34 D C A Yes 1 Isopropyl alcohol IPA 20 2.3 D C A Yes 1 n-Propyl alcohol PAL 20 2 D C A Yes 1	Polybutene	PLB	30	D	E		Α	Yes	1		
Isopropyl acetate	Polypropylene glycol	PGC	40	D	E		Α	Yes	1	¥	
n-Propyl acetate PAT 34 D C A Yes 1 Isopropyl alcohol IPA 20 ^{2,3} D C A Yes 1 n-Propyl alcohol PAL 20 ² D C A Yes 1	Propionaldehyde	PAD	19	D	С		Α	Yes	2		
Isopropyl alcohol	Isopropyl acetate	IAC	34	D	С		Α	Yes	1		
n-Propyl alcohol PAL 20 ² D C A Yes 1	n-Propyl acetate	PAT	34	D	С		Α	Yes	1		
	Isopropyl alcohol	IPA	20	2,3 D	С		Α	Yes	1		
	n-Propyl alcohol	PAL	20	2 D	С		Α	Yes	1		
Propylbenzene (all isomers) PBY 32 D D A Yes 1	Propylbenzene (all isomers)	PBY	32	D	D		Α	Yes	1		
Isopropylcyclohexane IPX 31 D D A Yes 1	Isopropylcyclohexane	IPX	31	D	D		Α	Yes	1		
Propylene glycol PPG 20 ² D E A Yes 1	Propylene glycol	PPG	20	2 D	E		Α	Yes	1		
Propylene glycol methyl ether acetate PGN 34 D D A Yes 1	Propylene glycol methyl ether acetate	PGN	34	D	D		Α	Yes	1		
Propylene tetramer PTT 30 D D A Yes 1	Propylene tetramer	PTT	30	D	D		Α	Yes	1		





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Serial #: C1-2202191 Dated: 6-Jul-22

Certificate of Inspection

Cargo Authority Attachment

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Shipyard: Tres Palacios

Cargo Identification						Conditions of Carriage				
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	App'd	Recovery VCS Category	Special Requirements in 46 CFR 151 General and Mat'ls of Construction	Insp. Period
Sulfolane	SFL	39	D	E		Α	Yes	1		
Tetraethylene glycol	TTG	40	D	E		Α	Yes	1		
Tetrahydronaphthalene	THN	32	D	E		Α	Yes	1		
Tetramethylbenzene (all isomers)	TTC	32	D	#		Α	Yes	1		
Toluene	TOL	32	D	С		Α	Yes	1		
Tricresyl phosphate (containing less than 1% ortho isomer)	TCP	34	D	E		Α	Yes	1		1 %
Triethylbenzene	TEB	32	D	E		Α	Yes	1		
Triethylene glycol	TEG	40	D	E		Α	Yes	1		
Triethyl phosphate	TPS	34	D	E		Α	Yes	1		
Trimethylbenzene (all isomers)	TRE	32	D	{D}		Α	Yes	1		141
2,2,4-Trimethyl-1,3-pentanediol-1-isobutyrate	TMP	34	D	E		Α	Yes	1		
Trixylyl phosphate	TRP	34	D	E		Α	Yes	1		49
1-Undecene	UDC	30	D	D/E		Α	Yes	1		
Undecyl alcohol	UND	20	D	Е		Α	Yes	1	8	
Xylenes	XLX	32	D	D		Α	Yes	1		



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Shipyard: Tres Palacios

Hull #: 104

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 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 problems.

Note 1

Subchapter D

Subchapter O

atibility problems, this product is not assigned to a specific group in the Compatibility Chart. For additional compatibility information, contact Commandant (CG-ENG-5), 2703 Martin Luther King Jr. Ave SE Stop 7509, Washington DC 20593-7509. Email:

Note 2

hazmatstandards@uscg.mil.

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

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

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

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

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

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

Grade

Subchapter

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

A. B. C Note 4 Flammable liquid cargoes, as defined in 46 CFR 30-10.22. Combustible liquid cargoes, as defined in 46 CFR 30-10.15.

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

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

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

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

Hull Type

NA

The required barge hull classification for carriage of the specified Subchapter O hazardous material cargo, see 46 CFR 151.10-1.

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

Designed to carry products which require significant preventive measures to preclude the uncontrolled release of cargo. See 46 CFR 151.10-1(b)(3) Designed to carry products of 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

Vapor Recovery Approved (Y or N) The vessel's tank group (as defined in Section 4) which is authorized for carriage of the named cargo

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

Conditions of Carriage

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

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

VCS Category:

The specified cargo's provisional classification for vapor control systems

Category 1

(No additional VCS requirements above those for benzene, gasolines and crude oil) All requirements applying to the handling of oil and hazardous materials in Titles 33 and 46 Code of Federal Regulations (CFR) apply to these cargoes. Those specifically dealing with vapor control systems are in 33 CFR 155.750, 33 CFR 156.120, 33 CFR 156.170, 46 CFR 35.35 and 46 CFR 39. The cargo tank venting system calculations (46 CFR 39.2011) 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 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 39.2009. 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 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

(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.

Category 7

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