

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

Certification Date: 04 Jan 2019 **Expiration Date:** 04 Jan 2024

Certificate of Inspection

Vessel Name	Official Number	IMO Num	ber	Call Sign	Service		
KIRBY 27009	1247208					Barge	
Hailing Port							
HOUMA, LA	Hull Material	Hors	epower	Propulsion			
	Steel						
UNITED STATES							
Place Built				3			
	Delivery Date	Keel Laid Date	Gross Tons	Net Tons	DWT	Length	
GALVESTON, TX	27Nov2013	09Jul2013	R-1619	R-1619		R-297.5	
UNITED STATES	2771012010	000012010	l-	I-		Ю	
5 25 5 25							
Owner		Operato	or				
KIRBY INLAND MARINE LP				MARINE, LP			
55 WAUGH DR STE 1000 HOUSTON, TX 77007			0 Market St				
UNITED STATES			nelview, TX				

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 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

UNITED STATES

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 plus Limited Coastwise---

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 per 46 CFR 31.10-21(a)(2). If this vessel is operated in salt water more than 6 months in any 12 month period, the vessel must be inspected using salt water intervals per 46 CFR 31.10-21(a)(1) and the cognizant OCMI notified in writing as soon as this change in status occurs.

This tank barge is participating in the Eighth Coast Guard District's Tank Barge Streamlined Inspection Program

SEE NEXT PAGE FOR ADDITIONAL CERTIFICATE INFORMATION

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

	Annual/Perio	dic/Re-In	spection	This certificate issued by
Date	Zone	A/P/R	Signature	J.J. ANDREW, CDR, USCG. By direction
12-9-20	HOU IGHL	A	David Warthen	Officer in Charge, Marine Inspection
01-05-22		A	DANNY MURRAY	Marine Safety Unit Port Arthur
11-02-22		A	DANNY MURRAY	Inspection Zone



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

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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

27Nov2023

27Nov2013

Internal Structure

30Nov2023

04Jan2019

27Nov2013

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

Flammable/Combustible Liquids and Specified Hazardous Cargoes

Total Capacity

Units

Highest Grade Type Part151 Regulated Part153 Regulated Part154 Regulated

28198

Barrels

Α

No

Hazardous Bulk Solids Authority

Not Authorized

Loading Constraints - Structural

Tank Location Description	Max Cargo Weight per Tank (short tons)	Maximum Density (lbs/gal)
1 P/S	684	13.58
2 P/S	826	13.58
3 P/S	704	13.58

Loading Constraints - Stability

Hull Type	Maximum Load (short tons)	Maximum Draft (ft/in)	Max Density (lbs/gal)	Route Description
11	3849	10ft 3in	13.58	
II	3849	10ft 3in	13.58	
III.	4221	11ft 0in	13.58	
III	4221	11ft 0in	13.58	

Conditions Of Carriage

Only those specified hazardous cargoes named in the vessel's Cargo Authority Attachment (CAA), Serial # C1-1301546, dated May 10, 2013, 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 39.40, this vessel's vapor control system (VCS) has been inspected to the plans approved by Marine Safety Center letter serial Marine Safety Center letters Serial # C1-1301546, dated May 10, 2013, and found acceptable for collection of bulk liquid cargo vapors annotated with "Yes" in the CAA's VCS column.

Cargo tank maximum design working pressure: 6.32 psig

Per 46 CFR 39.1017 and 39.5000(e), this vessel's VCS has been evaluated and approved for multi-breasted tandem loading

^{*}Vapor Contro! Authorization*



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

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with other vessels specifically approved to tandem load with this vessel.

Stability and Trim

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 7.05 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.

--- Inspection Status --- And grown of the state of the s

Cargo Tanks

	Internal Exam	W	100	External Exam						
Tank Id	Previous Last	Next	Previous	Last	Next					
1 P/S	- 27Nov2013	27Nov2023	_	_	_					
2 P/S	- 27Nov2013	27Nov2023		2	_					
3 P/S	- 27Nov2013			- 0.0	-					
		Hydro Test								
Tank Id	Safety Valves	Previous	Last	Next						
1 P/S	· · · · · · · · · · · · · · · · · · ·	<u>-</u>	_ 2							
2 P/S	-		_	_						
3 P/S			11.00	_						

---Conditional Portable Fire Extinguisher Requirements---

Required Only During Transfer of Cargo or Operation of Barge Machinery

--- Fire Fighting Equipment ---

Fire Extinguishers - Hand portable and semi-portable

Quantity

Class Type

2 .

B-II

END



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

C1-1301546

Dated: 10-May-13

Certificate of Inspection

Cargo Authority Attachment

Vessel Name: CTCO 319 Official #: 1247208

Shipyard: West Gulf Marine

Hull #: 232

Tank Group Information	Cargo I	dentificati	on		Cargo)			Cargo Environi Transfer Control		Environmental Control		Special Requirements				
Grp Tanks in Group	Density	Press.	Temp.	Hull Typ	Seg Tank	Туре	Vent	Vent Gauge Class Cont Tanks Coops Provided Co	Materials of Construction		Temp						
4 #1P/S, #2P/S, #3P/S	13.6	Atmos.	Amb.	11	1ii 2ii	Integral Gravity	PV	Closed	II	G-1	NR	NA	Portable	.50-60, .50-70(a), .50-70(b), .50-73,	55-1(b), (c), (e), (f), (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	n			6000		Conditions of Carriage					
								ecovery			
Name	Chem	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	App'd (Y or N)	VCS Category	Special Requirements in 46 CFR 151 General and Mat'ls of	Insp. Period	
Authorized Subchapter O Cargoes											
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	11	Α	Yes	1	No	G	
Alkyl(C7-C9) nitrates	AKN	34 ²	0	NA	111	Α	No	N/A	.50-81, .50-86	G	
Aminoethylethanolamine	AEE	8	0	Е	111	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	111	A	Yes	1	.50-60		
Benzene or hydrocarbon mixtures (having 10% Benzene or more)	BHB	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	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	Ш	Α	Yes	1	.50-60	G	
Butyl acrylate (all isomers)	BAR	14	0	D	111	Α	Yes		.50-70(a), .50-81(a), (b)	G	
Butyl methacrylate	ВМН	14	0	D	Ш	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)	СРО	18	0	D	11	A	No	N/A	No	G	
Carbon tetrachloride	СВТ	36	0	NA	111	A	No	N/A	No	G	
Caustic potash solution	CPS	5 2	0	NA	111	Α	No	N/A	.50-73, .55-1(j)	G	
Caustic soda solution	CSS	5 2	0	NA	111	Α	No	N/A	.50-73, .55-1(j)	G	
Chemical Oil (refined, containing phenolics)	COD	21	0	E	 	A	No	N/A	.50-73	G	
Chlorobenzene	CRB	36	0			Α	Yes	1	No	G	
Chloroform	CRF	36	0	NA	Ш	A	Yes	3	No	G	
Coal tar naphtha solvent	NCT	33	0	D	111	Α	Yes	1	.50-73		
Creosote	CCW	21 2	0	E		A	Yes	1	No	G	
Cresols (all isomers)	CRS	21	0	E	Ш	Α	Yes	1	No	G	
Cresylate spent caustic	CSC	5	0	NA	III	Α	No	N/A	.50-73, .55-1(b)		
Cresylic acid tar	CRX		0	E	III	Α	Yes	1	.55-1(f)	G	
Crotonaldehyde	CTA	19 ²	0	C	11	A	Yes	4	.55-1(h)		
Crude hydrocarbon feedstock (containing Butyraldehydes and Ethylpropyl acrolein)	CHG		0	С	III	A	No	N/A	No	G	
Cyclohexanone	ССН	18	0	D	III	A	Yes	1	.56-1(a), (b)	G	
Cyclohexanone, Cyclohexanol mixture	CYX	18 ²	0	E	 III		Yes	1	.56-1 (b)		
			_	-			103			_	
Cyclohexylamine	CHA	7	0	D	Ш	Α	Yes	1	.56-1(a), (b), (c), (g)	G	

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^{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



Cargo Authority Attachment

Vessel Name: CTCO 319 Official #: 1247208

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Shipyard: West Gulf Marine

C1-1301546

10-May-13

			age 2	01 0					Hull #. 232		
Cargo Identificatio	on						Conditions of Carriage				
								Recovery		_	
Name	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	Insp. Period	
iso-Decyl acrylate	IAI	14	0	E	Ш	Α	Yes	2	.50-70(a), .50-81(a), (b), .55-1(c)	G	
Dichlorobenzene (all isomers)	DBX	36	0	Е	111	Α	Yes	3	.56-1(a), (b)	G	
1,1-Dichloroethane	DCH	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		No	G	
2,4-Dichlorophenoxyacetic acid, diethanolamine salt solution	DDE	43	0	Е	Ш	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	Α	No	N/A	.56-1(a), (b), (c), (g)	G	
2,4-Dichlorophenoxyacetic acid, triisopropanolamine salt solution	DTI	43 ²	0	E	111	Α	No	N/A	.56-1(a), (b), (c), (g)	G	
1,1-Dichloropropane	DPB	36	0	С	III	A	Yes	3	No	G	
1,2-Dichloropropane	DPP	36	0	С	III	A	Yes	3	No	G	
1,3-Dichloropropane	DPC	36	0	С	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	1	No	G	
Diethanolamine	DEA	8	0	E	111	A	Yes	1	.55-1(c)	G	
Diethylamine	DEN	7	0	C	111	A	Yes	3	.55-1(c)	G	
Diethylenetriamine	DET	7 2	0	E	111				.55-1(c)	G	
Diisobutylamine	DBU	7	0	D D	III		Yes	1	.55-1(c)		
Diisopropanolamine	DIP	8	0	E	-	A	Yes	3	.55-1(c)	G	
Diisopropylamine	DIA	7	0	C	111	Α	Yes	1	.55-1(c)	G	
N,N-Dimethylacetamide	DAC	10	-0	E	- 11	A	Yes	3	.55-1(b)	G	
Dimethylethanolamine				-	- 111	A	Yes	3		G	
Dimethylformamide	DMB	8	0	D		A	Yes	1	.56-1(b), (c)	G	
Di-n-propylamine	DMF	10	0	D		A	Yes	1	.55-1(e)	G	
	DNA	7	0	C		A	Yes	3	.55-1(c)	G	
Dodecyldimethylamine, Tetradecyldimethylamine mixture	DOT	7	0	Ε	- 111	Α .	No	N/A	.56-1(b)	G	
Dodecyl diphenyl ether disulfonate solution	DOS	43	0	#	- 11	A	No	N/A	No	G	
EE Glycol Ether Mixture	EEG	40	0	D	111	Α	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 solution (72% or less)	EAN	7	0	Α	- 11	Α	No	N/A	.55-1(b)	G	
N-Ethylbutylamine	EBA	7	0	D		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	111	Α	Yes	1	No	G	
Ethylenediamine	EDA	7 2	0	D	Ш	Α	Yes	1	55-1(c)	G	
Ethylene dichloride	EDC	36 ²	0	С	Ш	Α	Yes	1	No	G	
Ethylene glycol hexyl ether	EGH	40	0	E	111	Α	No	N/A	No	G	
Ethylene glycol monoalkyl ethers	EGC	40	0	D/E	III	Α	Yes	1	No	G	
Ethylene glycol propyl ether	EGP	40	0	E	111	A	Yes	1	No	G	
2-Ethylhexyl acrylate	EAI	14	Ö	E	Ш	Α	Yes	2	.50-70(a), .50-81(a), (b)	G	
Ethyl methacrylate	ETM	14	0	D/E	111	Α	Yes	2	.50-70(a)	G	
2-Ethyl-3-propylacrolein	EPA	19 ²	0	E	111	Α	Yes	1	No	G	
Formaldehyde solution (37% to 50%)	FMS	19 ²	0	D/E	111	Α	Yes	1	.55-1(h)	G	
Furfural	FFA	19	0	Þ	III	Α	Yes	1	.55-1(h)	G	
Glutaraldehyde solution (50% or less)	GTA	19	0	NA	111	Α	No	N/A	No	G	
Hexamethylenediamine solution	HMC	7	0	E	Ш	Α	Yes	1	.55-1(c)	G	
Hexamethyleneimine	НМІ	7	0	С	11	Α	Yes	1	.56-1(b), (c)	G	
Hydrocarbon 5-9	HFN		0	С	111	Α	Yes	1	.50-70(a), .50-81(a), (b)	G	
soprene	IPR	30	0	Α	111	Α	No	N/A	.50-70(a), .50-81(a), (b)	G	
Isoprene, Pentadiene mixture	IPN		0	В	Ш	Α	No	N/A	.50-70(a), .55-1(c)	G	

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Serial #: C1-1301546
Dated: 10-May-13

Certificate of Inspection

Cargo Authority Attachment

Vessel Name: CTCO 319
Official #: 1247208

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Shipyard: West Gulf Marine

Cargo Identification	1					Conditions of Carriage					
	Ch	0		0			Vapor F	Recovery		T	
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	App'd (Y or N)	VCS Category	Special Requirements in 46 CFR 151 General and Mat'ls of	Insp. Period	
Kraft pulping liquors (free alkali content 3% or more)(including: Black, Green, or White liquor)	KPL	5	0	NA	111	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	A	Yes	2	.50-70(a), .50-81(a), (b)	G	
Methylcyclopentadiene dimer	MCK	30	0	C	111	A	Yes		No	G	
Methyl diethanolamine	MDE	8	0	E	3 111	A	Yes	1	.56-1(b), (c)	G	
2-Methyl-5-ethylpyridine	MEP	9	0	E	III	A	Yes	1	.55-1(e)		
Methyl methacrylate	MMM	14	0		III	A	Yes	2	.50-70(a), .50-81(a), (b)	G	
2-Methylpyridine	MPR	9	0	D	111	A	Yes	3	.55-1(c)		
alpha-Methylstyrene	MSR	30	0	D	111	A			.50-70(a), .50-81(a), (b)	G	
Morpholine	MPL	7 2	0	D	111	A	Yes	1	.55-1(c)	G	
Nitroethane	NTE	42	0	D	''' -	A	No		.50-81, .56-1(b)	G	
1- or 2-Nitropropane	NPM	42	0	D				N/A	.50-81	G	
1,3-Pentadiene	PDE	30	0	A	111		Yes	1	.50-70(a), .50-81	G	
Perchloroethylene	PER	36	0	NA	111	A	No	N/A	No	G	
Polyethylene polyamines	PEB	7 ²	0	E	111	Α	No	N/A		G	
iso-Propanolamine	MPA	8	0	E		Α	Yes	11	.55-1(e)	G	
Propanolamine (iso-, n-)	PAX	8	0		111	A	Yes	1	.55-1(c)	G	
iso-Propylamine	IPP	7	0	E	-	A	Yes	1	.56-1(b), (c)	G	
Pyridine	PRD	9		C	- 11	Α	Yes	5	.55-1(c)	G	
Sodium acetate, Glycol, Water mixture (3% or more Sodium Hydroxide)	SAP		0		111	A	Yes No	1 N/A	.55-1(e) .50-73, .55-1(j)	G 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		A	No	N/A	.50-73	G	
Sodium hypochlorite solution (20% or less)	SHQ	5	0	NA	111	A	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	A	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	III	A	No	N/A	.50-73, .55-1(b)	G	
Sodium sulfide, hydrosulfide solution (H2S greater than 200 ppm)	SSJ	0 1,2	0	NA	11	Α	No	N/A	.50-73, .55-1(b)	G	
Styrene (crude)	STX		0	D	111	A	Yes	2	No	G	
Styrene monomer	STY	30	0	D	111	A	Yes	2	.50-70(a), .50-81(a), (b)	G	
1,1,2,2-Tetrachloroethane	TEC	36	0	NA	111	A	No	N/A	No	G	
Tetraethylenepentamine	TTP	7	0	E	111		Yes	1	.55-1(c)	G	
Tetrahydrofuran	THE	41	0	C	111	A	Yes	1	.50-70(b)	G	
Toluenediamine	TDA	9	0		11	A	No		.50-73, .56-1(a), (b), (c), (g)	G	
1,2,4-Trichlorobenzene	TCB	36	0	 E	111	A		N/A	No	G	
1,1,2-Trichloroethane	TCM	36	0	NA	111	A A	Yes	1	.50-73, .56-1(a)	G	
Trichloroethylene	TCL	36 ²	0	NA	111	A	Yes	1	No	G	
1,2,3-Trichloropropane	TCN	36	0	E			Yes		.50-73, .56-1(a)		
Triethanolamine	TEA	8 2	0	E		A	Yes	3	.55-1(b)	G G	
Triethylamine	TEN	7	0	C	Н	A A	Yes	1	.55-1(e)	G	
Triethylenetetramine	TET	7 2	0	E			Yes	3	.55-1(b)	G	
Triphenylborane (10% or less), caustic soda solution	TPB	5	0	NA NA	111	A	Yes	1	.56-1(a), (b), (c)	G	
Trisodium phosphate solution	TSP	5	0	NA			No	N/A	.50-73, .56-1(a), (c).	G	
Urea, Ammonium nitrate solution (containing more than 2% NH3)	UAS	6	0		111	A	No	N/A	.56-1(b)		
Vanillin black liquor (free alkali content, 3% or more).	VBL	5	0	NA NA	111	Α .	No	N/A	.50-73, .56-1(a), (c), (g)	G	
Vinyl acetate	VAM	13	0	NA C	111	A	No	N/A	.50-70(a), .50-81(a), (b)	G	
					III	Α	Yes	2		G	
Vinyl neodecanate	VND	13	0	E	111	Α	No	N/A	.50-70(a), .50-81(a), (b)	G	

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Cargo Authority Attachment

Vessel Name: CTCO 319
Official #: 1247208

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Shipyard: West Gulf Marine

Serial #: C1-1301546

10-May-13

Cargo Identificati						Conditions of Carriage					
			1	T				Recovery	Gons of Carriage		
Name	Chem Code	Compat Group No	Sub Chapte	Grade	Hull Type	Tank Group	App'd	VCS Category	Special Requirements in 46 CFR 151 General and Mat'ls of	Insp. Period	
Subchapter D Cargoes Authorized for Vapor Con	trol	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	A STATE OF STREET	Mark Contract	10001216	a. Marie P. W.	var remediate	2:			
Acetone	ACT	18 ²	D	С	-	Α	Yes	1			
Acetophenone	ACP	18	D	E		Α	Yes	1			
Alcohol(C12-C16) poly(1-6)ethoxylates	APU	20	D	E		Α	Yes	1			
Alcohol(C6-C17)(secondary) poly(7-12)ethoxylates	AEB	20	D	E		Α	Yes	1			
Amyl acetate (all isomers)	AEC	34	D	D	-	Α	Yes	1			
Amyl alcohol (iso-, n-, sec-, primary)	AAI	20	D	D		Α	Yes	1			
Benzyl alcohol	BAL	21	D	E		Α	Yes	1			
Brake fluid base mixtures (containing Poly(2-8)alkylene(C2-C3) glycols, Polyalkylene(C2-C10) glycol monoalkyl(C1-C4) ethers, and heir borate esters)	BFX d	20	D	E		Α	Yes	1			
Butyl acetate (all isomers)	BAX	34	D	D		Α	Yes	1			
Butyl alcohol (iso-)	IAL	20 2	D	D		A	Yes	1			
Butyl alcohol (n-)	BAN	20 2	D	D	-	A	Yes	1		10	
Butyl alcohol (sec-)	BAS	20 2	D	С		Α	Yes	1			
Butyl alcohol (tert-)	BAT		D	C		Α	Yes	1			
Butyl benzyl phthalate	BPH	34	D	E		A	Yes	1	7.7		
Butyl toluene	BUE	32	D	D		A	Yes	1			
Caprolactam solutions	CLS	22) D	E		- A	Yes	-1			
Cyclohexane	CHX	31	D .	c		A	Yes	1			
Cyclohexanol	CHN	20	D	E		A	Yes	1			
,3-Cyclopentadiene dimer (molten)	CPD	30	D	D/E		A	Yes	2	No. 10 March 1997	-	
o-Cymene	CMP	32	D	D		Α	Yes	1	CHRICAR CONTRACTOR OF THE	and the same	
so-Decaldehyde	IDA	19	D	E	Access to the	Α	Yes		LA CONTRACTOR OF THE CONTRACTO		
i-Decaldehyde	DAL	19	D	E		A	Yes		Effective of the control of the cont		
Decene	DCE	30	D	D		A		1			
Decyl alcohol (all isomers)	DAX	20 2	D	E	-	A	Yes	1		-	
-Decylbenzene, see Alkyl(C9+)benzenes	DBZ	32	D	E	2 2-10	t-we territor	Yes	1	Andrew Committee of the	1.1.1.1.	
Diacetone alcohol	DAA	20 ²	D	D		A	Yes	11			
rtho-Dibutyl phthalate	DPA	34	D	E		Α	Yes	1			
Diethylbenzene	DEB	32	D	D		A	Yes	1			
Diethylene glycol	DEG	40 ²		1000		Α	Yes	1			
Diisobutylene	DBL		D	E		A	Yes	1			
Disobutyl ketone		30	D	С		A	Yes	1			
Disopropylbenzene (all isomers)	DIK	18	D	D	-	Α	Yes	1			
Dimethyl phthalate	DIX	32	D	E		Α	Yes	1			
Dioctyl phthalate	DTL	34	D	E		A	Yes	1			
pipentene	DOP	34	D	E		A	Yes	1			
piphenyl	DPN	30	D	D		Α	Yes	11			
liphenyl, Diphenyl ether mixtures	DIL	32	D	D/E	19.19	Α	Yes	1			
liphenyl ether	DDO	33	D.	E		A .	Yes	1			
ipropylene glycol	DPE	41	D	{E}		A	Yes	1			
istillates: Flashed feed stocks	DPG	40	D	E		A	Yes	1			
istillates: Straight run	DFF	33	D	E	- 1	A	Yes	1			
	DSR	33	Ď	E	10	Α	Yes	1			
odecene (all isomers)	DOZ	30	D	D		Α	Yes	1		1 45 5	
odecylbenzene, see Alkyl(C9+)benzenes	DDB	32	D		4. A	A	Yes	. 1			
-Ethoxyethyl acetate	EÉA	34	D	D		A	Yes	1			
thoxy triglycol (crude)	ETG	40	D	Ē		A	Yes	1			

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Dated: 10-May-13

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Cargo Authority Attachment

Official #: 1247208

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Shipyard: West Gulf Marine

Cargo Identificati	on					Conditions of Carriage					
		1	T.	T	1.0		Vapor Recovery				
Name	Chem Code	Compat Group No	Sub Chapte	er Grade	Hull Type	Tank Group	App'd (Y or N)	VCS	Special Requirements in 46 CFR 151 General and Mat'ls of	Insp.	
Ethyl acetate	ETA	34	D	С		Α	Yes	1		1 01100	
Ethyl acetoacetate	EAA	34	D	E		A	Yes	1			
Ethyl alcohol	EAL	20 ²	D	C		A	Yes	1			
Ethylbenzene	ETB	32	D	С		A	Yes	1			
Ethyl butanol	EBT	20	D	D		A	Yes	1			
Ethyl tert-butyl ether	EBE	41	D	C		A	Yes				
Ethyl butyrate	EBR	34		D		A	Yes	1			
Ethyl cyclohexane	ECY	31		D			Yes				
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	EGY	34	D	E		A		1			
Ethylene glycol phenyl ether	EPE	40	D	 E		A	Yes				
Ethyl-3-ethoxypropionate	EEP	34	D	D		A A		1			
2-Ethylhexanol	EHX	20	D	E		A	Yes	1			
Ethyl propionate	EPR	34	D	C		A	Yes	1	1		
Ethyl toluene	ETE	32	D	D			Yes	1			
Formamide	FAM	10	D	E		A	Yes	1			
Furfuryl alcohol	FAL	20 2	D				Yes	1		-	
Gasoline blending stocks: Alkylates	GAK	33	D	A/C		A	Yes	1			
Gasoline blending stocks: Reformates	GRF	33	D	A/C		A	Yes	1			
Gasolines: Automotive (containing not over 4.23 grams lead per gallon)	GAT	33	D	C		A	Yes	1			
Gasolines: Aviation (containing not over 4.86 grams of lead per gallon)	GAV	33	D	С		Α	Yes	1			
Gasolines: Casinghead (natural)	GCS	33	D	A/C		A	Yes	1			
Gasolines: Polymer	GPL	33	D	A/C		Α	Yes	<u>'</u>			
Gasolines: Straight run	GSR	33	D	A/C		A	Yes	1			
Glycerine	GCR	20 2	D	E		Α	Yes	1			
Heptane (all isomers), see Alkanes (C6-C9) (all isomers)	HMX	31	D	С		Α	Yes	1			
Heptanoic acid	HEP	4	D	E		Α	Yes	1			
Heptanol (all isomers)	HTX	20	D	D/E		A	Yes	1			
Heptene (all isomers)	HPX	30	D	С		A	Yes	2			
Heptyl acetate	HPE	34	D	E	-	Α	Yes	1			
Hexane (all isomers), see Alkanes (C6-C9)	HXS	31 ²	D	B/C		A	Yes	1			
Hexanoic acid	НХО	4	D	E		Α	Yes	1			
Hexanol	HXN	20	D	D		A	Yes	1			
Hexene (all isomers)	HEX	30	D	С		A	Yes	2			
Hexylene glycol	HXG	20	D	E		A	Yes	1			
Isophorone	IPH	18 ²	D	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			
Methyl acetate	MTT	34	D	D		A	Yes	1			
Methyl alcohol	MAL	20 ²	D	C	10	A	Yes	1			
Methylamyl acetate	MAC	34	D	D		A	Yes	1			
Methylamyl alcohol	MAA	20	D	D		A	Yes	1	-		
Methyl amyl ketone	MAK	18	D	D		A	Yes	1			
Methyl tert-butyl ether	MBE	41 2	D	С		A	Yes	1			
Methyl butyl ketone	MBK	18	D	C		A	Yes	1			

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Cargo Authority Attachment

Vessel Name: CTCO 319
Official #: 1247208

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Shipyard: West Gulf Marine

10-May-13

						11411 #. 232					
Cargo Identifica	tion					Conditions of Carriage					
							_	Recovery		1	
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	App'd (Y or N)	VCS Category	Special Requirements in 46 CFR 151 General and Mat'ls of	Insp. Period	
Methyl butyrate	MBU	34	D	С		A	Yes	1		renod	
Methyl ethyl ketone	MEK	18 ²	D	С		. A	Yes	1	6 V		
Methyl heptyl ketone	MHK	18	D	D		A	Yes	1			
Methyl isobutyl ketone	MIK	18 ²	D	C		Α	Yes	1	* * * * * * * * * * * * * * * * * * *		
Methyl naphthalene (molten)	MNA	32	D	E	0.7	A	Yes	1			
Mineral spirits	MNS	33	D	D		Α	Yes	1			
Myrcene	MRE	30	D	 D		A	Yes	1			
Naphtha: Heavy	NAG	33	D	#		A	Yes	1			
Naphtha: Petroleum	PTN	33	D	#		A	Yes	1			
Naphtha: Solvent	NSV	33		 D		A	Yes	1			
Naphtha: Stoddard solvent	NSS	33	D	D		A	Yes	1	a as x &		
Naphtha: Varnish makers and painters (75%)	NVM	33	D	С		A	Yes	1			
Nonane (all isomers), see Alkanes (C6-C9)	NAX	31	D	D		Α	Yes	1			
Nonene (all isomers)	NON	30	D	D		A	Yes	2			
Nonyl alcohol (all isomers)	NNS	20 ²	D	E			Yes	1			
Nonyl phenol	NNP	21	D	E	14.54 J. A	A .	Yes				
Nonyl phenol poly(4+)ethoxylates	NPE	40	D	E		A	Yes	1			
Octane (all isomers), see Alkanes (C6-C9)	OAX	31	D	C	.60	A					
Octanoic acid (all isomers)	OAY	4	D	E		A	Yes	1			
Octanol (all isomers)	OCX	20 2	D	E		A	Yes	1			
Octene (all isomers)	OTX	30	D	C	****		Yes	1			
Oil, fuel: No. 2	OTW	33	D	D/E	-	A	Yes	2			
Oil, fuel: No. 2-D	OTD	33	D	D	The second	Α	Yes	1 1			
Oil, fuel: No. 4	OFR	33	D	D/E	26 2 2	Α	Yes	1		0	
Oil, fuel: No. 5	OFV	33	D	D/E		A	Yes	1			
Oil, fuel: No. 6	OSX	33	D			A	Yes	1			
Oil, misc: Crude	OIL	33		E	- 1.1	Α	Yes	1			
Oil, misc: Diesel	ODS	33	D	C/D		A	Yes	1			
Oil, misc: Gas, high pour	OGP	33	D	D/E		Α .	Yes	1			
Oil, misc: Lubricating	OLB		D	E		A .	Yes	1			
Oil miss: Pasidual		33	D	E		A	Yes	1			
Oil, misc. Turbine	ORL	33	D	E		Α	Yes	1	!		
Pentane (all isomers)	OTB	33	D	E		Α	Yes	1			
Pentene (all isomers)	PTY	31	D	A		A	Yes	5			
n-Pentyl propionate	PTX	30	D	Α		Α	Yes	5			
alpha-Pinene	PPE	34	D	D		A	Yes	1			
beta-Pinene	PIO	30	D	D	100	Α	Yes	1			
	PIP	30	D	D		Α	Yes	1			
Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether	PAG	40	D	E		Α	Yes	11			
Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether acetate Polybutene	PAF	34	D	E		Α	Yes	1			
	PLB	30	D	E		Α	Yes	1			
Polypropylene glycol iso-Propyl acetate	PGC	40	D	E		A	Yes	1			
n-Propyl acetate	IAC	34	D	С		A	Yes	1			
	PAT	34	D	С		A	Yes	1			
iso-Propyl alcohol	IPA	20 2	_ D	С		A	Yes	1 .			
n-Propyl alcohol	PAL	20 2	D ·	С		Α	Yes	1			
Propylbenzene (all isomers)	PBY	32	D	D		Α	Yes	1			
iso-Propylcyclohexane Propylene glycol	IPX	31	D	D		Α	Yes	11		_	
Propyletie glycol	PPG	20 ²	D	E		Α	Yes	1			

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Cargo Authority Attachment

Vessel Name: CTCO 319 Official #: 1247208

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Shipyard: West Gulf Marine

Cargo Identification									Conditions of Carriage				
		48.4								Vapor Recovery		g	1
Name	V.	4.4		Chem	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	App'd	VCS	Special Requirements in 46 CFR 151 General and Mat'ls of	Insp.
Propylene glycol methyl ether acetate	1	12		PGN	34	D	D		Α	Yes			1 Choc
Propylene tetramer		200	ia .	PTT	30	D	D				1		
Sulfolane		171		SFL	39				Α	Yes	1		
Tetraethylene glycol			. 1.			D	E		Α	Yes	1		
Tetrahydronaphthalene				TTG	40	D	E		Α	Yes	1		
Toluene				THN	32	D	E		Α	Yes	1	9	
	<u> </u>			TOL	32	D	С		Α	Yes	1		
Tricresyl phosphate (less than 1% of the ortho isomer)				TCP	34	D	E		Α	Yes	1		
Triethylbenzene		1.2		TEB	32	D	E		Α	Yes	1		
Triethylene glycol				TEG	40	D	E		A	Yes	1		
Triethyl phosphate		ê .	i	TPS	34	D							
Trimethylbenzene (all isomers)				TRE	32	D	-		A	Yes	1		
Trixylenyl phosphate				TRP			{D}		Α	Yes	1		
Undecene	7				34	D	E		Α	Yes	1	<u> </u>	
1-Undecyl alcohol				UDC	30	D	D/E		Α	Yes	1		
				UND	20	D	Е		Α	Yes	1		
Xylenes (ortho-, meta-, para-)				XLX	32	D	D		Α	Yes	1		





Cargo Authority Attachment

Vessel Name: CTCO 319 Official #: 1247208

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Shipyard: West Gulf Mari

C1-1301546

10-May-13

Hull #: 232

Dated:

Explanation of terms & symbols used in the Table:

Cargo Identification

Chem Code

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

Note 1 Note 2

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.

Note 3

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.

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

A. B. C 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.

NA Hull Type

NA

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

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

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

Designed to carry products of sufficeint hazard to require a moderate degree of control. See 46 CFR 151.10-1(b)(4). Not applicable to barges certificated under Subchapter D.

Conditions of Carriage

Tank Group Vapor 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

Tank Group 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: 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 rates.

Category 2

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

Category 3

(Highly toxic) VCSs for these toxic cargoes cannot use a spill valve or rupture disk as the primary means to meet the overfill protection requirement of 46 CFR 39.20-9. This requirement is in addition to the requirements of Category 1.

Category 4

(Polymenzes 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.

Category 7

(High vapor pressure and polymerizes) Must comply with requirements of Categories 1, 2 and 5, 1982 to 1982 to

Cont. Grant Street

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

Abore the 14 City has not a gap and but to the 15 for a