

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

Certification Date: 12 Dec 2019 Expiration Date: 12 Dec 2024

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.

	Official Num	ber	IMO Numb	er	Call Sign	Service	
HTCO 3073	122272	5				Tank	Barge
Heiling Port	Hul	It Material	Horse	power	Propulaion		
HOUSTON, TX	St	leel					
UNITED STATES							
Place Built	Deliver	ry Date	Keel Laid Date	Gross Tons	Net Tons	DWT	Length
ASHLAND CITY, TN				R-1619	R-1619		R-297.5
	290	ct2009	16Sep2009	-	+		10
UNITED STATES							
Owner LINES I	1110		Operato		MARINE, LP		
HIGMAN BARGE LINES ! 55 WAUGH DR SUITE 10				MARKET			
HOUSTON, TX 77007	The state of the state of				, TX 77530		
UNITED STATES			UNIT	ED STATE	S		
				11,224			
This vessel must be mann 0 Certified Lifeboatmen, C	Certified Tankermen	, 0 HSC	Type Rating, a	and 0 GMD	SS Operators.	nich there n	iust be
0 Masters	0 Licensed Mates	0 Chief	Engineers	00	ilers		
0 Chief Mates	0 First Class Pilots		Assistant Enginee				
U Chier Mates		O Coco	nd Assistant Engir	eers			
O Second Mates	0 Radio Officers		CANADA VALUE OF THE PARTY OF TH			7 1	
0 Second Mates 0 Third Mates	0 Able Seamen	0 Third	Assistant Enginee			12	
0 Second Mates 0 Third Mates 0 Master First Class Pilot	0 Able Seamen 0 Ordinary Seamen	0 Third 0 Lices	Assistant Engineers	ers			
Second Mates Third Mates Master First Class Pilot Mate First Class Pilots	Able Seamen Ordinary Seamen Deckhands	0 Third 0 Licen 0 Quali	Assistant Engineers sed Engineers fied Member Engin	ers neer			
Second Mates Third Mates Master First Class Pilot	Able Seamen Ordinary Seamen Deckhands	0 Third 0 Licen 0 Quali	Assistant Engineers sed Engineers fied Member Engin	ers neer	ns in addition to	o crew, and	no Others. Total
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Marine Sprety Unit Port Arthur



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

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Certificate of Inspection

Vessel Name: HTCO 3073

Inspection Program (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
 26Nov2024
 26Nov2014
 29Oct2009

Internal Structure 30Nov2024 30Nov2019 26Nov2014

--- 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

28200 Barrels A Yes No No

Hazardous Bulk Solids Authority

Not Authorized

Loading Constraints - Structural

Tank Number	Max Cargo Weight per Tank (short tons)	Maximum Density (lbs/gal)
1 P/S	862	13.6
2 P/S	878	13.6
3 P/S	682	13.6

Loading Constraints - Stability

Hull Type	Maximum Load (short tons)	Maximum Draft (ft/in)	Max Density (lbs/gal)	Route Description
11	3747	10ft 0in	13.6	R, LBS, LC
III	4619	11ft 9in	13.6	R, LBS, LC

Conditions Of Carriage

Only those specified hazardous cargoes named in the vessel's Cargo Authority Attachment (CAA), Serial #C1-0902372, dated August 31, 2009, 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 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.

Thermal Fluid Heater

The thermal fluid heater located in the hazardous location does not meet the requirements of 46 CFR 111.105-31(I), and may not be used when carrying cargoes above Grade E. Additionally, in accordance with 46 CFR 111.105-29(c), no cargo may be heated to within 15 degrees Celsius of its flash point.

Vapor Control Authorization

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 #C1-0902372, dated August 31, 2009, and found acceptable for collection of bulk liquid cargo vapors annotated with "Yes" in the CAA's VCS column.



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Cargo tank maximum design working pressure: 3.5 psig.

Per 46 CFR 39.1017 and 39.5000(e), 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.

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 8.74 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	l.		External Exan	n	
Tank Id	Previous	Last	Next	Previous	Last	Next
1 P/S	29Oct2009	26Nov2014	26Nov2024	-	-	-
2 P/S	29Oct2009	26Nov2014	26Nov2024	-	-	-
3 P/S	29Oct2009	26Nov2014	26Nov2024	-	-	-
			Hydro Test			
Tank Id	Safety Valves		Previous	Last	Next	
1 P/S	-		-	-	-	
2 P/S	-		-	-	-	
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

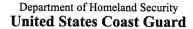
Quantity

Class Type

3

B-II

END





Serial #: C1-0902372 Dated:

31-Aug-09

Certificate of Inspection

Cargo Authority Attachment

Vessel Name: HTCO 3073 Official #: 1222725

Shipyard: TRINITY ASHLAND CITY

Hull #: 4685

Tank Group Information	Cargo lo	dentificati	on		Cargo		Tanks		Carg Tran		Enviror Control		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 Haz	Temp Cont
A #1P/S, #2P/S, #3P/S	13.6	Atmos.	Elev	П	1ii 2ii	Integral Gravity	PV	Closed	И	G-1	NR	NA	Portable	40-1(f)(1), .50-60, .50-70(a), .50- 70(b), .50-73, .50- 81(b),	55-1(b), (c), (e), (f), (h), (j), 56-1(a), (b), (c), (d), (e), (f), (g),	NR	Yes

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

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

List of Authorized Cargoes

Cargo Identificatio	n							Condi	tions of Carriage	
							Vapor R	ecovery		
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
Authorized Subchapter O Cargoes										
Acetonitrile	ATN	37	0	С	111	Α	Yes	3	No	G
Acrylonitrile	ACN	15 ²	0	С	11	Α	Yes	4	.50-70(a), .55-1(e)	G
Adiponitrile	ADN	37	0	Ε	11	Α	Yes	1	No	G
Alkyl(C7-C9) nitrates	AKN	34 2	0	NA	111	Α	No	N/A	.50-81, .50-86	G
Aminoethylethanolamine	AEE	8	0	E	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	Ш	Α	No	N/A	.56-1(a), (b), (c), (f), (g)	G
Anthracene oil (Coal tar fraction)	АНО	33	0	NA	11	Α	No	N/A	No	G
Benzene	BNZ	32	0	С	111	Α	Yes	1	.50-60	G
Benzene or hydrocarbon mixtures (having 10% Benzene or more)	внв	32 ²	0	С	III	Α	Yes	1	.50-60	G
Benzene or hydrocarbon mixtures (containing Acetylene and 10% Benzene or more)	ВНА	32 ²	0	С	111	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	Ш	Α	Yes	2	.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	111	Α	Yes	1	.55-1(h)	G
Camphor oil (light)	СРО	18	0	D	II	Α	No	N/A	No	G
Carbon tetrachloride	CBT	36	0	NA	111	Α	No	N/A	No	G
Caustic potash solution	CPS	5 ²	0	NA	Ш	Α	No	N/A	.50-73, .55-1(j)	G
Caustic soda solution	css	5 ²	0	NA	Ш	Α	No	N/A	.50-73, .55-1(j)	G
Chemical Oil (refined, containing phenolics)	COD	21	0	E	П	Α	No	N/A	.50-73	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
Coal tar pitch (molten)	CTP	33	0	E	111	Α	No	N/A	.50-73	G
Creosote	CCW	21 ²	0	E	Ш	Α	Yes	1	No	G
Cresols (all isomers)	CRS	21	0	Е	Ш	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		0	Е	Ш	Α	Yes	1	.55-1(f)	G
Crotonaldehyde	CTA	19 ²	0	С	11	Α	Yes	4	.55-1(h)	G
Crude hydrocarbon feedstock (containing Butyraldehydes and Ethylpropyl acrolein)	CHG		0	С	111	Α	No	N/A	No	G
Cyclohexanone	ССН	18	0	D	Ш	Α	Yes	1	.56-1(a), (b)	G
Cyclohexanone, Cyclohexanol mixture	CYX	18 ²	0	E	111	Α	Yes	1	.56-1 (b)	G



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Cargo Authority Attachment

Vessel Name: HTCO 3073

Shipyard: TRINITY ASHLAND

31-Aug-09

Hull #: 4685

Official #: 1222725

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Cargo Identification	n					Conditions of Carriage					
							Vapor R			T	
Name Cyclohexylamine	Chem Code CHA	Compat Group No 7	Sub Chapter O	Grade D	Hull Type III	Tank Group A	App'd	VCS Category	Special Requirements in 46 CFR 151 General and Mat'ls of .56-1(a), (b), (c), (g)	Insp. Period G	
Cyclopentadiene, Styrene, Benzene mixture	CSB	30	0	D	Ш	Α	Yes	1	.50-60, .56-1(b)	G	
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	E	III	A	Yes	3	.56-1(a), (b)	G	
1,1-Dichloroethane	DCH	36	0	C	III	A	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	111	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		A	111	Α	No	N/A	.56-1(a), (b), (c), (g)	G	
2,4-Dichlorophenoxyacetic acid, triisopropanolamine salt solution	DTI	43 2	0	E	III	A	No	N/A	.56-1(a), (b), (c), (g)	G	
1,1-Dichloropropane	DPB	36	0	С	III	A	Yes	3	No	G	
	DPP	36	0	C	 III	Α	Yes	3	No	G	
1,2-Dichloropropage	DPC	36	0	C	111	A	Yes	3	No	G	
1,3-Dichloropropane	DPU	15	0	D	11	A	Yes	4	No	G	
1,3-Dichloropropene	DMX	15	0	C		A	Yes	1	No	G	
Dichloropropene, Dichloropropane mixtures		8	0	E	111			1	.55-1(c)	G	
Diethanolamine	DEA					A	Yes		.55-1(c)	G	
Diethylamine	DEN	7	0	C	111	A	Yes	3	.55-1(c)	G	
Diethylenetriamine	DET	7 2	0	E		A	Yes	1	.55-1(c)	- G	
Diisobutylamine	DBU	7	0	D	111	A	Yes	3		G	
Diisopropanolamine	DIP	8	0	E	III	Α .	Yes	1	.55-1(c)		
Diisopropylamine	DIA	7	0	С	11	Α	Yes	3	.55-1(c)	G	
N,N-Dimethylacetamide	DAC	10	0	E	111	Α	Yes	3	.56-1(b)	G	
Dimethylethanolamine	DMB	8	0	D	111	Α	Yes	1	.56-1(b), (c)	G	
Dimethylformamide	DMF	10	0	D	Ш	Α	Yes	1	.55-1(e)	G	
Di-n-propylamine	DNA	7	0	С	!!	Α	Yes	3	.55-1(c)	G	
Dodecyldimethylamine, Tetradecyldimethylamine mixture	DOT	7	0	E	111	Α	No	N/A	.56-1(b)	G	
Dodecyl diphenyl ether disulfonate solution	DOS	43	0	#	II	Α	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	Ш	Α	Yes	1	.55-1(c)	G	
Ethyl acrylate	EAC	14	0	С	Ш	Α	Yes	2	.50-70(a), .50-81(a), (b)	G	
Ethylamine solution (72% or less)	EAN	7	0	Α	11	Α	Yes	6	.55-1(b)	G	
N-Ethylbutylamine	EBA	7	0	D	111	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	Ш	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	111	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	Ш	Α	Yes	1	No	G	
2-Ethylhexyl acrylate	EAI	14	0	E	111	Α	Yes	2	.50-70(a), .50-81(a), (b)	G	
Ethyl methacrylate	ETM	14	0	D/E	Ш	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	D	III	Α	Yes	1	.55-1(h)	G	
Glutaraldehyde solution (50% or less)	GTA	19	0	NA	III	Α	No	N/A	No	G	
Hexamethylenediamine solution	HMC		0	E	111	Α	Yes	1	.55-1(c)	G	
Hexamethyleneimine	HMI	7	0	c	II	A	Yes	1	.56-1(b), (c)	G	
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C1-0902372

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Certificate of Inspection

Cargo Authority Attachment

Vessel Name: HTCO 3073

Shipyard: TRINITY ASHLAND

Hull #: 4685

Official #: 1222725

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Cargo Identification Conditions of Carriage

										ions of Carriage	
Nar	ne	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 .50-70(a), .50-81(a), (b)	Insp.
Isoprene Isoprene, Pentadiene mixture		IPR	30	0	A B	111	A	Yes	7	.50-70(a), .50-81(a), (b)	G
Kraft pulping liquors (free alkali cor Green, or White liquor)	ntent 3% or more)(including: Black,		5	0	NA	111	A	No No	N/A N/A	.50-73, .56-1(a), (c), (g)	G
Mesityl oxide		MSO	18 ²	0	D	111	Α	Yes	1	No	G
Methyl acrylate		MAM	14	0	С	111	A	Yes	2	.50-70(a), .50-81(a), (b)	G
		MCK	30	0	C		A			No	G
Methylcyclopentadiene dimer Methyl diethanolamine		MDE	8	0	E	111	A	Yes Yes	1	.56-1(b), (c)	G
2-Methyl-5-ethylpyridine		MEP	9	0	E	111	A	Yes	1	.55-1(e)	G
		MMM		0	C	111	A	Yes	2	.50-70(a), .50-81(a), (b)	G
Methyl methacrylate 2-Methylpyridine		MPR	9	0	D		A	Yes	3	.55-1(c)	G
		MSR	30	0	D	111	A	Yes	2	.50-70(a), .50-81(a), (b)	G
alpha-Methylstyrene		MPL	7 ²	0	D	<u>'''</u> 	A	Yes	1	.55-1(c)	G
Morpholine		NPM	42	0	D				1	.50-81	G
1- or 2-Nitropropane						111	A	Yes		.50-70(a), .50-81	G
1,3-Pentadiene		PDE	30	0	A	- 111	A	Yes	7	No	G
Perchloroethylene		PER	36	0	NA -	111	A	No	N/A	No	G
Phthalic anhydride (molten)		PAN	11	0	E	III	A	Yes	1		
Polyethylene polyamines		PEB	7 2	0	E	· III	A	Yes	1	.55-1(e)	G
iso-Propanolamine		MPA	8	0	E		A	Yes	1	.55-1(c)	
Propanolamine (iso-, n-)		PAX	8	0	E		A	Yes	1	.56-1(b), (c)	G
iso-Propylamine		IPP	7	0	A		Α .	Yes	5	.55-1(c)	G
Pyridine		PRD	9	0	С	Ш	A	Yes	1	.55-1(e)	G
Sodium acetate, Glycol, Water mixt Hydroxide)	ure (3% or more Sodium	SAP		0		111	Α	No	N/A	.50-73, .55-1(j)	G
Sodium aluminate solution (45% or	less)	SAU	5	0	NA	Ш	Α	No	N/A	.50-73, .56-1(a), (b), (c)	G
Sodium chlorate solution (50% or le	ess)	SDD	0 1,2	0	NA	Ш	Α	No	N/A	.50-73	G
Sodium hypochlorite solution (20%	or less)	SHQ	5	0	NA	Ш	Α	No	N/A	.50-73, .56-1(a), (b)	G
Sodium sulfide, hydrosulfide solutio	n (H2S 15 ppm or less)	SSH	0 1,2	0	NA	Ш	Α	Yes	1	.50-73, .55-1(b)	G
Sodium sulfide, hydrosulfide solutio less than 200 ppm)	n (H2S greater than 15 ppm but	SSI	0 1,2	0	NA	III	Α	No	N/A	.50-73, .55-1(b)	G
Sodium sulfide, hydrosulfide solutio	n (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	Α	Yes	2	No	G
Styrene monomer		STY	30	0	D	III	Α	Yes	2	.50-70(a), .50-81(a), (b)	G
1,1,2,2-Tetrachloroethane		TEC	36	0	NA	111	Α	No	N/A	No	G
Tetraethylenepentamine		TTP	7	0	Ε	Ш	Α	Yes	1	.55-1(c)	G
Tetrahydrofuran	-	THF	41	0	С	111	Α	Yes	1	.50-70(b)	G
Toluenediamine		TDA	9	0	Ε	11	Α	No	N/A	.50-73, .56-1(a), (b), (c), (g)	G
1,2,4-Trichlorobenzene		TCB	36	0	E	III	Α	Yes	1	No	G
1,1,2-Trichloroethane		TCM	36	0	NA	111	Α	Yes	1	.50-73, .56-1(a)	G
Trichloroethylene		TCL	36 ²	0	NA	Ш	Α	Yes	1	No	G
1,2,3-Trichloropropane		TCN	36	0	E	11	Α	Yes	3	.50-73, .56-1(a)	G
Triethanolamine		TEA	8 ²	0	Е	Ш	Α	Yes	1	.55-1(b)	G
Triethylamine		TEN	7	0	С	11	Α	Yes	3	.55-1(e)	G
Triethylenetetramine		TET	7 ²	0	E	III	Α	Yes	1	.55-1(b)	G
Triphenylborane (10% or less), cau	stic soda solution	TPB	5	0	NA	Ш	Α	No	N/A	.56-1(a), (b), (c)	G
Trisodium phosphate solution		TSP	5	0	NA	111	Α	No	N/A	.50-73, .56-1(a), (c).	G
Urea, Ammonium nitrate solution (c	ontaining more than 2% NH3)	UAS	6	0	NA	Ш	Α	No	N/A	.56-1(b)	G
Vanillin black liquor (free alkali cont	ent, 3% or more).	VBL	5	0	NA	111	Α	No	N/A	.50-73, .56-1(a), (c), (g)	G
											G



Serial #: C1-0902372

31-Aug-09

Certificate of Inspection

Cargo Authority Attachment

Vessel Name: HTCO 3073

Shipyard: TRINITY ASHLAND

Hull #: 4685

Official #: 1222725

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Cargo Identificatio	n			***************************************				Condi	tions of Carriage	
	T	_				_ s	Vapor R	Recovery		\top
Name Vinyl neodecanate	Chem Code VND	Compat Group No 13	Sub Chapter O	Grade E	Hull Type III	Tank Group A	App'd (Y or N) No	VCS Category N/A	Special Requirements in 46 CFR 151 General and Mat'ls of .50-70(a), .50-81(a), (b)	Insp. Period G
Vinyltoluene	VNT	13	0		111	A	Yes	2	.50-70(a), .50-81, .56-1(a), (b), (c), (G
Subchapter D Cargoes Authorized for Vapor Contr	ACT	18 ²	D	С		Α	Yes	1		
Acetone	ACP	18	D	E		A	Yes	1		
Acetophenone	APU	20	D	E		A	Yes	1		
Alcohol(C12-C16) poly(1-6)ethoxylates	AEB	20	D	E		A	Yes	1		
Alcohol(C6-C17)(secondary) poly(7-12)ethoxylates	AEC	34		D		A	Yes	1		
Amyl alcebel (ice. p. acc. primary)	AAI	20	D	D		A	Yes	1		
Amyl alcohol (iso-, n-, sec-, primary)	BAL	21	D	E		A	Yes	1		
Benzyl alcohol Brake fluid base mixtures (containing Poly(2.8)alkylone(C2.C3)	BFX	20	D 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)	ых	20	,	_		Α	103	,		
Butyl acetate (all isomers)	BAX	34	D	D		Α	Yes	11		
Butyl alcohol (iso-)	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		
Butyl alcohol (tert-)	BAT		D	С		Α	Yes	1		
Butyl benzyl phthalate	BPH	34	D	E		Α	Yes	1		
Butyl toluene	BUE	32	D	D		Α	Yes	1		
Caprolactam solutions	CLS	22	D	E		Α	Yes	1		
Cyclohexane	CHX	31	D	С		Α	Yes	1		
Cyclohexanol	CHN	20	D	E		Α	Yes	1		
1,3-Cyclopentadiene dimer (molten)	CPD	30	D	D/E		Α	Yes	2		
p-Cymene	CMP	32	D	D		Α	Yes	11		
iso-Decaldehyde	IDA	19	D	E		Α	Yes	1		
n-Decaldehyde	DAL	19	D	E		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		
ortho-Dibutyl phthalate	DPA	34	D	E		Α	Yes	1		
Diethylbenzene	DEB	32	D	D		Α	Yes	1		
Diethylene glycol	DEG	40 ²	D	E		Α	Yes	1		
Diisobutylene	DBL	30	D	С		Α	Yes	1		
Diisobutyl ketone	DIK	18	D	D		Α	Yes	1		
Diisopropylbenzene (all isomers)	DIX	32	D	E		Α	Yes	1		
Dimethyl phthalate	DTL	34	D	E		Α	Yes	1		
Dioctyl phthalate	DOP	34	D	E		Α	Yes	1		
Dipentene	DPN	30	D	D		A	Yes			
Diphenyl	DIL	32	D	D/E		Α	Yes	1		
Diphenyl, Diphenyl ether mixtures	DDO	33	D	E		A	Yes	1		
Diphenyl ether	DPE	41	D	{E}		A	Yes	1		
Dipropylene glycol	DPG	40	D	E		Α	Yes	1		
Distillates: Flashed feed stocks	DFF	33	D	E		A	Yes	1		
Distillates: Straight run	DSR	33	D	E		Α	Yes	1		
Dodecene (all isomers)	DOZ	30	D	D		Α	Yes	1		
Dodecylbenzene, see Alkyl(C9+)benzenes	DDB	32	D	E	-	Α	Yes	1		



Serial #: C1-0902372

Certificate of Inspection

Cargo Authority Attachment

Vessel Name: HTCO 3073

Shipyard: TRINITY ASHLAND

Hull #: 4685

Official #: 1222725

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Cargo Identification	on					=		Condi	tions of Carriage	
							l	Recovery		
Name	Chem	Compat Group No		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
2-Ethoxyethyl acetate	EEA	34	D	D		Α	Yes	1		
Ethoxy triglycol (crude)	ETG	40	D	E		Α	Yes	1		
Ethyl acetate	ETA	34	D	С		Α	Yes	1		
Ethyl acetoacetate	EAA	34	D	E		Α	Yes	1		
Ethyl alcohol	EAL	20 ²	D	С		Α	Yes	1		
Ethylbenzene	ETB	32	D	С		Α	Yes	11		
Ethyl butanol	EBT	20	D	D		Α	Yes	1		
Ethyl tert-butyl ether	EBE	41	D	С		Α	Yes	1		
Ethyl butyrate	EBR	34	D	D		Α	Yes	1		
Ethyl cyclohexane	ECY	31	D	D		Α	Yes	1		
Ethylene glycol	EGL	20 ²	D	Ε		Α	Yes	1		
Ethylene glycoi butyl ether acetate	EMA	34	D	Ε		Α	Yes	1		
Ethylene glycol diacetate	EGY	34	D	E		Α	Yes	1		
Ethylene glycol phenyl ether	EPE	40	D	E		Α	Yes	. 1		
Ethyl-3-ethoxypropionate	EEP	34	D	D		Α	Yes	1		
2-Ethylhexanol	EHX	20	D	E		Α	Yes	1		
Ethyl propionate	EPR	34	D	С		Α	Yes	1		
Ethyl toluene	ETE	32	D	D		Α	Yes	1		
Formamide	FAM	10	D	E		Α	Yes	1		
Furfuryl alcohol	FAL	20 ²	D	E		Α	Yes	1		
Gasoline blending stocks: Alkylates	GAK	33	D	A/C		Α	Yes	1		
Gasoline blending stocks: Reformates	GRF	33	D	A/C		Α	Yes	1		***************************************
Gasolines: Automotive (containing not over 4.23 grams lead per gallon)	GAT	33	D	С		Α	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		Α	Yes	1		
Gasolines: Polymer	GPL	33	D	A/C		Α	Yes	1		
Gasolines: Straight run	GSR	33	D	A/C		Α	Yes	1		
Glycerine	GCR	20 ²	D	E		Α	Yes	1		
Heptane (all isomers), see Alkanes (C6-C9) (all isomers)	НМХ	31	D	С		Α	Yes	1	7	
Heptanoic acid	HEP	4	D	E		Α	Yes	1		
Heptanol (all isomers)	HTX	20	D	D/E		Α	Yes	1		
Heptene (all isomers)	HPX	30	D	С		Α	Yes	2		
Heptyl acetate	HPE	34	D	E	-	Α	Yes	1		
Hexane (all isomers), see Alkanes (C6-C9)	HXS	31 ²	D	B/C		Α	Yes	1		
Hexanoic acid	НХО	4	D	Е		Α	Yes	1		
Hexanol	HXN	20	D	D		Α	Yes	1		
Hexanol Hexanol	HEX	30	D	С		Α	Yes	2		
Hexylene glycol	HXG	20	D	 E		A	Yes	1	The second secon	
	IPH	18 ²	D	E		Α	Yes	1		
Isophorone	JPF	33	D	E		A	Yes	<u>.</u>		
Jet fuel: JP-4	JPV	33	D	D		A	Yes	1		
Jet fuel: JP-5 (kerosene, heavy)	KRS	33	D	D		A	Yes	1		
Kerosene			D	D		A	Yes	1		
Methyl acetate	MTT	34 20 ²		С		A	Yes	1		
Methyl alcohol	MAL		D					1		
Methylamyl acetate	MAC	34	D	D		Α	Yes			
Methylamyl alcohol	MAA	20	D	D		Α	Yes	11		
Methyl amyl ketone	MAK	18	D	D		Α	Yes	1		



nited States Coast Guard

Certificate of Inspection Cargo Authority Attachment

Vessel Name: HTCO 3073

Shipyard: TRINITY ASHLAND

Dated:

C1-0902372

31-Aug-09

CITY

Hull #: 4685

Official #: 1222725

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Chem Conspart Sub Chem Conspart Sub Chem Conspart Sub Chem Conspart Chem Conspart Chem Conspart Chem Conspart Chem Che	Cargo Identifica	ation					11	Condi	tions of Carriage	
Name										
Methyl butyl ketone		Code	Group No	Chapter		Group	(Y or N)	Category		Insp. Period
Methyl bulyrate						 				
Methyl ethyl ketone MEK 18 ² D C A Yes 1 Methyl heptyl ketone MKK 18 ² D D A Yes 1 Methyl jabobyl ketone MK 18 ² D C A Yes 1 Methyl papthalene (molten) MMX 32 ° D E A Yes 1 Merchyl papthalene (molten) MMX 32 ° D E A Yes 1 Microsia (molten) MMX 32 ° D E A Yes 1 Mproan MRE 30 ° D D A Yes 1 Naphtha: Stodent NSV 33 ° D # A Yes 1 Naphtha: Stodent solvent NSV 33 ° D A Yes 1 Naphtha: Stodent solvent makers and painters (75%) NVM 33 ° D A Yes 1 Naphtha: Stodent solvent solvent solvent solvent solvent solvent s						 				
Methyl heptyl ketone						 				
Methyl isoburyl ketone MIK 18 ² D C A Yes 1 Methyl naphthalene (molten) MNA 32 D E A Yes 1 Mincreal spirits MNS 33 D D A Yes 1 Mycrone NAG 33 D D A Yes 1 Naphthar Petroleum PTN 33 D # A Yes 1 Naphthar Solvent NSV 33 D D A Yes 1 Naphthar Solvent NSS 33 D D A Yes 1 Naphthar Solderd Solvent NSS 33 D D A Yes 1 Naphthar Varnish makers and painters (75%) NNM 33 D C A Yes 1 Nonnea (all isomers) NS 20 D E A Yes 2 Nonyl alcohol (all isomers) NS <td< td=""><td></td><td></td><td></td><td></td><td></td><td> </td><td></td><td></td><td></td><td></td></td<>						 				
Methyl naphthalene (molten) MANA 32 D E A Yes 1 Mineral spirits MNS 33 D D A Yes 1 Naphtna: Heavy NAG 33 D B A Yes 1 Naphtha: Heavy NAG 33 D # A Yes 1 Naphtha: Stoddard solvent NSV 33 D D A Yes 1 Naphtha: Stoddard solvent NSS 33 D D A Yes 1 Naphtha: Varnish makers and painters (75%) NVM 33 D D A Yes 1 Nonnea (all isomers) NSV 30 D D A Yes 1 Nonnea (all isomers) NSV 30 D D A Yes 1 Nonnea (all isomers) NSV 30 D D A Yes 1 Nonpl phenol obyl(+)-bitoxylates										
Mineral spirits						 				
Myroane MRE 30 D D A Yes 1 Naphtha: Heavy NAG 33 D # A Yes 1 Naphtha: Solvent NSV 33 D D A Yes 1 Naphtha: Solvent NSV 33 D D A Yes 1 Naphtha: Solvent NSV 33 D D A Yes 1 Naphtha: Stoddard solvent NSV 33 D D A Yes 1 Naphtha: Stoddard solvent NSV 33 D D A Yes 1 Nonand Stoddard solvent NSP 20 D A Yes 1 Nonand Stoddard solvent NSP 20 D A Yes 1 Nonand Stoddard Solvent NSP 20 D E A Yes 1 Nonyl phenol Nyley Stoddard D D E A <td></td>										
Naphtha: Petroleum	S					 				
Naphtha: Solvent	8					 				
Naphtha: Solvent	avy		33		#	Α	Yes	1		
Naphtha: Stoddard solvent	troleum	PTN	33	D	#	Α	Yes	1		
Naphtha: Vamiah makers and painters (75%) NVM 33 D C A Yes 1 Nonane (all isomers), see Alkanes (C6-C9) NAX 31 D D A Yes 1 Nonnene (all isomers) NNS 30 D D A Yes 2 Nonryl alcohol (all isomers) NNS 20°2 D E A Yes 1 Nonryl phenol NNPE 21 D E A Yes 1 Octano (all isomers), see Alkanes (C8-C9) OAX 31 D C A Yes 1 Octanoic acid (all isomers) OAY 4 D E A Yes 1 Octanoic acid (all isomers) OAY 4 D E A Yes 1 Octanoic acid (all isomers) OTX 30° D C A Yes 1 Octanoic acid (all isomers) OTX 30° D C A Yes 1 <td>ivent</td> <td>NSV</td> <td>33</td> <td>D</td> <td>D</td> <td> Α</td> <td>Yes</td> <td>1</td> <td></td> <td></td>	ivent	NSV	33	D	D	 Α	Yes	1		
Namane (all isomers), see Alkanes (C6-C9)	oddard solvent	NSS	33	D	D	Α	Yes	1		
Nonene (all isomers)	rnish makers and painters (75%)	NVM	33	D	С	 Α	Yes	1		
Nonyl alcohol (all isomers) NNS 20 2	somers), see Alkanes (C6-C9)	NAX	31	D	D	Α	Yes	1		
Nonyl phenol NNP 21 D E A Yes 1 Nonyl phenol poly(4+) ethoxylates NPE 40 D E A Yes 1 Octanol (all isomers), see Alkanes (C6-C9) OAX 31 D C A Yes 1 Octanol (all isomers) OAY 4 D E A Yes 1 Octanol (all isomers) OCX 20 2 D E A Yes 1 Octanol (all isomers) OTX 30 D C A Yes 1 Octanol (all isomers) OTX 30 D C A Yes 1 Octanol (all isomers) OTX 30 D C A Yes 2 Oll, fuel: No. 2-D OTD 33 D D/E A Yes 1 Oll, fuel: No. 5 OFV 33 D D/E A Yes 1 Oll, misc: Cas, bigh pour <td< td=""><td>somers)</td><td>NON</td><td>30</td><td>D</td><td>D</td><td>Α</td><td>Yes</td><td>2</td><td></td><td></td></td<>	somers)	NON	30	D	D	Α	Yes	2		
Nonyl phenol poly(4+)ethoxylates	ol (all isomers)	NNS	20 ²	D	E	Α	Yes	1		
Octane (all isomers), see Alkanes (C6-C9)	l	NNP	21	D	E	Α	Yes	1		
Octanoic acid (all isomers)	I poly(4+)ethoxylates	NPE	40	D	E	Α	Yes	1		
Octanoic acid (all isomers)	somers), see Alkanes (C6-C9)	OAX	31	D	С	Α	Yes	1		
Octanol (all isomers)		OAY	4	D	E	 Α	Yes	1	A CONTRACTOR OF THE CONTRACTOR	
Octene (all isomers) OTX 30 D C A Yes 2 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 C/D A Yes 1 Oil, misc: Diesel ODS 33 D D/E A Yes 1 Oil, misc: Lubricating OLB 33 D E A Yes 1 Oil, misc: Turbine ORL 33 D E A Yes 1 Oil, misc: Turbine OTB 33 D		ocx	20 ²	D	E	 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 C/D A Yes 1 Oil, misc: Diesel ODS 33 D D/E A Yes 1 Oil, misc: Cass, high pour OGP 33 D E A Yes 1 Oil, misc: Lubricating OLB 33 D E A Yes 1 Oil, misc: Turbine ORL 33 D E A Yes 1 Oil, misc: Turbine OTB 33 D E </td <td></td> <td>OTX</td> <td>30</td> <td>D</td> <td>С</td> <td> Α</td> <td>Yes</td> <td>2</td> <td></td> <td></td>		OTX	30	D	С	 Α	Yes	2		
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 C/D A Yes 1 Oil, misc: Diesel ODS 33 D D/E A Yes 1 Oil, misc: Lubricating OBB 33 D E A Yes 1 Oil, misc: Lubricating 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 Yes 5 Pentane (all isomers) PTX 30						 				
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 C/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: Turbine OTB 33 D E A Yes 1 Oil, misc: Turbine OTB 33 D E A Yes 1 Pentane (all isomers) PTY 31 D A A Yes 5 Pentane (all isomers) PTX 30 D D A Yes 1 beta-Pinene PIO 30 <td></td> <td></td> <td></td> <td></td> <td></td> <td> </td> <td></td> <td></td> <td></td> <td></td>						 				
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 C/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 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										
Oil, fuel: No. 6 OSX 33 D E A Yes 1 Oil, misc: Crude OIL 33 D C/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 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 D A Yes 1 Deta-Pinene PIO <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>										
Oil, misc: Crude OIL 33 D C/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 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						 				
Oil, misc: Diesel ODS 33 D D/E A Yes 1 Oil, misc: Cas, 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 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 D A Yes 5 alpha-Pinene PIO 30 D D A Yes 1 Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether PAG										
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iso-Propyl alcohol IPA 20 ² D C A Yes 1	etate									
100 TTOP/T GROUND	tate					 				
PAL 202 D C A Vec 1						 				
n-Propyl alcohol PAL 20 ² D C A Yes 1	ihol	PAL	20 ²	D	С	Α	Yes	1		
Propylbenzene (all isomers) PBY 32 D D A Yes 1	ne (all isomers)	PBY	32				Yes			
iso-Propylcyclohexane IPX 31 D D A Yes 1	olohexane	IPX	31	D	D	 Α	Yes	11		



Serial #: C1-0902372

31-Aug-09

Certificate of Inspection

Cargo Authority Attachment

Vessel Name: HTCO 3073

Shipyard: TRINITY ASHLAND

Hull #: 4685

Official #: 1222725

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Cargo Identifica	ation					Conditions of Carriage						
Name Propylene glycol	Chem Code PPG	Compat Group No 20 ²	Sub Chapter D	Grade	Hull Tvoe	Tank Group A	App'd	Recovery VCS Category 1	Special Requirements in 46 CFR 151 General and Mat'ls of	Insp. Period		
Propylene glycol methyl ether acetate	PGN	34	D	D		Α	Yes	1				
Propylene tetramer	PTT	30	D	D		Α	Yes	1				
Sulfolane	SFL	39	D	E		Α	Yes	1				
Tetraethylene glycol	TTG	40	D	E		Α	Yes	1				
Tetrahydronaphthalene	THN	32	D	E		Α	Yes	1				
Toluene	TOL	32	D	С		Α	Yes	1				
Tricresyl phosphate (less than 1% of the ortho isomer)	TCP	34	D	Е		Α	Yes	1				
Triethylbenzene	TEB	32	D	E		Α	Yes	1				
Triethylene glycol	TEG	40	D	Е		Α	Yes	1				
Triethyl phosphate	TPS	34	D	E		Α	Yes	1				
Trimethylbenzene (all isomers)	TRE	32	D	{D}		Α	Yes	1				
Trixylenyl phosphate	TRP	34	D	E		Α	Yes	1				
Undecene	UDC	30	D	D/E		Α	Yes	1				
1-Undecyl alcohol	UND	20	D	E		Α	Yes	1				
Xylenes (ortho-, meta-, para-)	XLX	32	D	D		Α	Yes	1				



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

Serial #: C1-0902372 Dated:

31-Aug-09

Certificate of Inspection

Cargo Authority Attachment

Vessel Name: HTCO 3073 Official #: 1222725

Page 8 of 8

Shipyard: TRINITY ASHL

Hull #: 4685

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 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,

Note 1

and appendices of 46 CFR 150 in conjunction with the assigned reactive group number.

Because of the very high reactivity or unusual conditions of carriage or potential compatibility problems, this product is not assigned to a specific group in the Compatibility Chart. For additional compatibility information, contact Commandant (CG-3PSO-3), U.S. Coast Guard, 2100 Second Street, SW, Washington, DC 20593-0001. Telephone

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

Subchapter Subchapter D Subchapter O

Note 2

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

Grade

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

A. B. C

Flammable liquid cargoes, as defined in 46 CFR 30-10.22 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 sufficeint hazard to require a moderate degree of control. See 46 CFR 151.10-1(b)(4).

Not applicable to barges certificated under Subchapter D.

Conditions of Carriage

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

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

Conditions of Carriage

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

Category 2

(Polymerizes) Polymerization 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

Category 4

(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 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 Category 7 (High yapor 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

(Polymerizes and highly toxic) Must comply with requirements of Categories 1, 2 and 3.

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