

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

27 Mar 2024 Certification Date: **Expiration Date:** 27 Mar 2029

Certificate of Inspection

For ships on international voyages this certificate fulfills the requirements of SOLAS 74 as amended, regulation V/14, for a SAFE MANNING DOCUMENT.

Vessel Name	Official Nu	mber	IMO Numb	er	Call Sign	Service		
HTCO 3109	12483	82				Tank	Barge	
Halling Port		uil Material	Horse		Propulsion			
HOUSTON, TX		iteel	Horse	power	Piopoision			
UNITED STATES		ACC!						
OMILES OTATIO								
Place Built	Deliv	ary Date	Keel Laid Date	Gross Tons	Net Tons	DWT	Length	
MADISIONVILLE, LA		lov2013	_	R-1619	R-1619		R-297 5	
UNITED STATES	िया	1012013	100002010	ŀ	+		1-0	
Owner			Operato	<u> </u>				
HIGMAN BARGE LINES					MARINE, LP			
55 WAUGH DR STE 1000 HOUSTON, TX 77007	U) MARKET NNFI VIFW	7, TX 77530			
UNITED STATES				ED STATE				
This vessel must be mann 0 Certified Lifeboatmen, 0						hich there n	nust be	
0 Masters	0 Licensed Mates		Engineers		ilers			
0 Chief Mates	0 First Class Pilots		Assistant Engineer	'S				
0 Second Mates	0 Radio Officers		nd Assistant Engin					
0 Third Mates	0 Able Seamen	0 Third	Assistant Enginee	ers				
0 Master First Class Pilot	0 Ordinary Seamen	0 Licen:	sed Engineers					
0 Mate First Class Pilots	0 Deckhands	0 Qualif	ied Member Engir	ieer				
In addition, this vessel may Persons allowed: 0	y carry 0 Passengers	, 0 Other	Persons in cre	w, 0 Perso	ns in addition to	crew, and	no Others. Tot	tal
Route Permitted And C	onditions Of Opera	tion:						
Lakes, Bays, and	l Sounds plus l	_imited	l Coastwise	?				
Also, in fair weather of Carrabelle, Florida.	only, limited coas	twise, n	ot more than	twelve (12	?) miles from	shore betw	een St. Mark	s and
This vessel has been gr (2). If this vessel is								

vessel must be inspected using salt water intervals per 46 CFR 31.10-21(a)(1) and the cognizant OCMI must be notified in writing as soon as this change in status occurs.

SEE NEXT PAGE FOR ADDITIONAL CERTIFICATE INFORMATION

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

}	Annual/Period	ic/Re-Ins	spection	This certificate issued by: B.P. BERGAN CDR, USCG, BY DIRECTION
Date	Zone	A/P/R	Signature	B.P. BERGAN CDR, USCG, BY DIRECTION
		11		Officer in Charge, Marine Inspection
				Houston-Galveston
				Inspection Zone



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

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This tank barge is participating in the Eighth and Ninth Coast Guard Districts' Tank Barge Streamlined Inspection Program (TBSIP). Inspection activities aboard this barge shall be conducted in accordance with 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	31Mar2034	12Mar2024	14Nov2013
Internal Structure	31Jan2029	10Jan2024	03Dec2018

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

Authorization: GRADE A AND LOWER AND SPECIFIED HAZARDOUS CARGOES

Total Capacity Units Highest Grade Type Part151 Regulated Part153 Regulated Part154 Regulated

29069 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	835	13.6
2 P/S	848	13.6
3 P/S	769	13.6

Loading Constraints - Stability

Hull Type	Maximum Load (short tons)	Maximum Draft (ft/in)	Max Density (lbs/gal)	Route Description
II	3799	10ft 0in	13.60	
III	4669	11ft 9in	13.60	

Conditions Of Carriage

Only those cargoes named in the vessel's Cargo Authority Attachment (CAA), Serial #C1-1300352, dated February 7th, 2013, may be carried, and then only in the tanks indicated. When the vessel is carrying cargoes containing greater than 0.5% benzene, the person in charge is responsible for ensuring the provisions of 46 CFR 197, Subpart C are applied.

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

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.

Per 46 CFR 151.10-15(c)(2) the max tank weights reflect uniform (within 5%) loading at the deepest draft allowed. When carrying Subchapter O cargoes at shallower drafts, the barge(s) should always be loaded uniformly.



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Vapor Control Authorization

In accordance with 46 CFR Part 39, excluding part 39.4000, this vessel's vapor collection system (VCS) has been inspected to the plans approved by MSC Letter #C1-1300352 dated February 7th, 2013 and has been found acceptable for the collection of bulk liquid cargo vapors annotated with "Yes" in the CAA's VCS column. The VCS system has been approved with a pressure side of 1.5 psig P/V valve with Coast Guard Approval 162.017/144/3. The cargo tank top is suitable for a maximum allowable working pressure (MAWP) of 3 psig.

In accordance with 46 CFR Part 39.5000, this vessel's VCS has been evaluated and approved for multi-breasted tandem loading with other vessels specifically approved by Marine Safety Center letter Serial No. C1-1302367 dated July 17, 2013.

--- Inspection Status ---

Cargo Tanks

	Internal Exam	1		External Exar	n	
Tank Id	Previous	Last	Next	Previous	Last	Next
1 P/S	14Nov2013	10Jan2024	31Jan2034	28Dec2018	10Jan2024	31Jan2029
2 P/S	14Nov2013	10Jan2024	31Јап2034	28Dec2018	10Jan2024	31Jan2029
3 P/S	14Nov2013	10Jan2024	31Jan2034	28Dec2018	10Jan2024	31Jan2029
			Hydro Test			
Tank ld	Safety Valves	3	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

2

40-B

END



FHomeland Security Serial #:
es Coast Guard Dated:

Certificate of Inspection

Cargo Authority Attachment

Vessel Name: HTCO 3109

Shipyard: Trinity Marine

Madisonville

C1-1300352

07-Feb-13

Official #: 1248382

Hull #: 2210-14

Tank Group Information	Cargo	dentificat	ion		Cargo		Tanks		Cargo		Enviror Control	nmental I	Fire	Special Require	ments		
Trik Gro Tanks in Group	Density	Press.	Temp.	Hull Typ	Sea	Туре	Vent	Gauge	Pipe Class	Cont	Tanks	Handfing Space	Protection Provided	General	Materials of Construction	Elec Haz	Temp
4 #1 P/S; #2 P/S; #3 P/S	13.6	Atmos,	Amb.	41	1li 2ií	Integral Gravity	PV	Closed	lI	G-1	NR	NA	Portable	,50-60, .50-70(a), .50-70(b), .50-73, .50-81(a), .50- 81(b),	55-1(c), (e), (h), 56- 1(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.

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				Condi	tions of Carriage					
							Vapor R	ecovery		
Name		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	A	Yes	3	Na	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	HE	А	No	N/A	50-81, .50-86	G
Anthracene oil (Coal tar fraction)	AHO	33	0	NΑ	11	Α	No	N/A	No	G
Benzene	BNZ	32	0	С	Ш	Α	Yes	1	50-60	G
Benzene or hydrocarbon mixtures (having 10% Benzene or more)	внв	32 ²	0	С	111	A	Yes	1	50-60	G
Benzene or hydrocarbon mixtures (containing Acetylene and 10% Benzene or more)	ВНА	32 ²	0	С	101	A	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	2	50-70(a), .50-81(a), (b)	G
Butyl methacrylate	вмн	14	0	D	III	A	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)	CPO	18	0	D		A	No	N/A	No	G
Carbon tetrachloride	СВТ	36	0	NA	Ш	Α	No	N/A	No	G
Chemical Oil (refined, containing phenolics)	COD	21	0	E	iI	Α	No	N/A	.50-73	G
Chlorobenzene	CRB	36	О	D	Ш	Α	Yes	1	No	G
Chloroform	CRF	36	0	NA	111	Α	Yes	3	No	G
Coal tar naphtha solvent	NCT	33	0	D	- 131	Α	Yes	1	.50-73	G
Creosote	CCV	21 2	0	E	111	A	Yes	1	No	G
Cresols (all isomers)	CRS	21	0	E	111	Α	Yes	1	No	G
Crotonaldehyde	CTA	19 ²	0	С	1[Α	Yes	4	.55-1(h)	G
Crude hydrocarbon feedstock (containing Butyraldehydes and Ethylpropyl acrolein)	CHG		0	C	tii	Α	No	N/A	No	G
Cyclohexanone, Cyclohexanol mixture	CYX	18 ²	0	E	III	А	Yes	1	56-1 (b)	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	Ш	A	Yes	2	.50-70(a), 50-81(a), (b), 55-1(c)	G
1,1-Dichloroethane	DCH	36	0	C	Ш	Α	Yes	1	Na	G
Dichloromethane	DCM	36	0	NA	lil	Α	Yes	5	No	G
1,1-Dichloropropane	DPB	36	0	C	Ш	A	Yes	3	No	G
1,2-Dichloropropane	DPP	36	0	c	HI	Α	Yes	3	No	G
1,3-Dichloropropane	DPC	36	0	С	H	Α	Yes	3	No	G
1,3-Dichloropropene	DPU	15	0	D	II.	A	Yes	4	No	G



Dated:

07-Feb-13

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Cargo Authority Attachment

Vessel Name: HTCO 3109

Shipyard: Trinity Marine

Madisonville

Official #: 1248382

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Cargo Identifica	tion					:	C	ondi	ions of Carriage	,
		:			. ;		Vapor Re	covery		1
Name Dichloropropene, Dichloropropane mixtures	Chem Code DMX	Compat Group No 15	Sub Chapter O	Grade C	Hull Tvoe II	Tank Group A	App'd (Y or N) Yes	VCS Category 1	Special Requirements in 46 CFR 151 General and Mat'ls of No	Insp. Period G
Diethanolamine	DEA	8	0	E		Α	Yes	1	55-1(c)	G
Diethylamine	DEN	7	0	C	 III	Α	Yes	3	55-1(c)	G
Diethylenetriamine	DET	7 2	0	E	 III	A	Yes	1	55-1(c)	G
Disobutylamine	DBU	7	0	D	Hŧ	Α	Yes	3	.55-1(c)	
Diisopropanolamine	DIP	8	0	E	Ш	A	Yes	1	55-1(c)	G
Dilsopropylamine	DIA	7	0	C	!! 	A	Yes	3	.55-1(c)	G
N,N-Dimethylacetamide	DAC	10	0	E		A	Yes	3	56-1(b)	- G
Dimethylethanolamine	DMB	8		<u></u>	 	<u></u>	Yes	1	56-1(b), (c)	G
Dimethylformamide	DMF	10	- 0	D	HI		Yes		55-1(e)	G
Di-n-propylamine	DNA	7	0	C	11	A	Yes	3	55-1(c)	G
Dodecyldimethylamine, Tetradecyldimethylamine mixture	DOT	· '	0	E	111	— <u>—</u>	No		.56-1(b)	G
Dodecyl diphenyl ether disulfonate solution	DOS	43		#				N/A	No	
EE Glycol Ether Mixture	EEG	40 40	0	# D	H 10	Α	No No	N/A	No	G
Ethanolamine	MEA	40 8	0	<u>D</u>	111	A	No.	N/A	55–1(c)	G
COUNTY OF A CASE OF THE SECOND	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					A .	Yes	1	.50-70(a), 50-81(a), (b)	
Ethylana gyanah dah	EAC	14	0 .	. C	<u> </u>	A	Yes	2		
Ethylene cyanohydrin	ETC	20	0	Ε	!!!	. <u> </u>	Yes	1	No	G
Ethylenediamine	EDA	72	0	D	111	ΑΑ	Yes	1	55-1(c)	
Ethylene dichloride	EDC	36 ²	0	С		A	Yes	1	No	Ģ
Ethylene glycol hexyl ether	EGH	40	0	E	111	A	No	N/A	No	G
Ethylene glycol monoalkyl ethers	EGC	40	0	D/E	111	Α	Yes	1	No	G
Ethylene glycol propyl ether	EGP	40	0	Ę	111	A	Yes	1_	No	G
2-Ethylhexyl acrylate	EAI	14	0	E	. 111	A	Yes	2	50-70(a), .50-81(a), (b)	G
Ethyl methacrylate	ETM	14	0	D/E	H	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	Ш	A	Yes	1	.56-1(h)	G
Furfural	FFA	19	0	D	111	A	Yes	1	55-1(h)	G
Glutaraidehyde solution (50% or less)	GTA	19	0	NA	111	Α	No	N/A	No	G
Hexamethylenediamine solution	HMC	7	0	E	[]]	Α	Yes	1	55-1(c)	G
Hexamethyleneimine	IMH	7	0	С	11	А	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
Isoprene	IPR	30	0	Α	Ш	Α	Yes	7	50-70(a), 50-81(a), (b)	G
Isoprene, Pentadiene mixture	IPN		0	В	1)!	Α	No	N/A	.50-70(a), 55-1(c)	G
Mesityl oxide	MSO	18 ²	0	D]]	Α	Yes	1	No	G
Methyl acrylate	MAM	14	0	C	111	Α	Yes	2	.50-70(a), 50-81(a), (b)	G
Methylcyclopentadiene dimer	MCK	30	0	С	111	A	Yes	1	No	G
Methyl diethanolamine	MDE	8	0	E	111	Α	Yes	1	56-1(b), (c)	G
2-Methyl-5-ethylpyridine	MEP	9	0	E	111	Α	Yes	<u>-</u>	55-1(e)	G
Methyl methacrylate	MMM		0		,::: Н	A	Yes	2	.50-70(a), 50-81(a), (b)	G
2-Methylpyridine	MPR	9	0	 D	133 }	^ A	Yes	3	.55-1(c)	G
alpha-Methylstyrene	MSR	30	0	D	111	A	Yes	2	50-70(a), 50-81(a), (b)	G
Morpholine	MPL	7 2	0	Z		Α	Yes	1	55-1(c)	G
Nitroethane	NTE	42	0		III .	^`	No		.50-81, 56-1(b)	G
1- or 2-Nitropropane	NPM	42	0	D				N/A	.50-81	
1,3-Pentadiene	PDE	30			111	A	Yes	1	///*/P/A	G
Perchloroethylene			0	. A	- 111	A	Yes	7	50-70(a), 50-81	G
	PER	36	0	NA	18	A	No	N/A	No .	G
Polyethylene polyamines	PEB	72	0	. E	Ш	A	Yes	1	.55-1(e)	G
iso-Propanolamine	MPA	8	0	Ε.	111	Α	Yes	1	55-1(c)	G



Serial #: C1-1300352 Dated: 07-Feb-13

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Cargo Authority Attachment

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Official #: 1248382

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Shipyard: Trinity Marine Madisonville

		A CONTRACTOR OF STREET	age 3	OI I		***************	Contraction and the Contraction of the Contraction	encontrately approprie	Hull #: 2210-14	***************************************	
Cargo Identificatio	n						(Condit	ions of Carriage		
							Vapor R	ecovery			
Name	Code	i Compat Group No			Hull Tvoe	Tank Group	(Y or N)	VCS Category	Special Requirements in 46 CFR 151 General and Mat'ls of	Insp.	
Propanolamine (iso-, n-)	PAX	8	0	E	1]]	Α	Yes	1	.56-1(b), (c)	G	
iso-Propylamine	IPP	7	0	Α	11	Α	Yes	5	.55-1(c)	G	
Pyridine	PRD	9	0	С	111	Α	Yes	1	55-1(e)	G	
Sodium chlorate solution (50% or less)	SDD	0 1,2	0	NA	111	Α.	No	N/A	50-73	G	
Styrene (crude)	STX		0	D	III	Α	Yes	2	No	G	
Styrene monomer	STY	30	0	. D	III	A	Yes	2	.50-70(a), 50-81(a), (b)	Ģ	
1,1,2,2-Tetrachloroethane	TEC	36	0	NA	III	Α	No	N/A	No	G	
Tetraethylenepentamine	TTP			Ε	111	Α	Yes	1	.55-1(c)	G	
Tetrahydrofuran	THE	41	0	С	H	Α	Yes	1	50-70(b)	G	
1,2,4-Trichlorobenzene	TCB	36	0	E	HI	Α	Yes	1	No	G	
Trichloroethylene	TCL	36 ²	0	NA	[11]	Α	Yes	1	No	G	
Triethylamine	TEN		0	C	!	A	Yes	3	55-1(e)	G	
Urea, Ammonium nitrate solution (containing more than 2% NH3)	UAS	6	0	NA	111	Α	No	N/A	.56-1(b)	G	
Vinyl acetate	VAM	13	0	С	111	Α	Yes	2	50-70(a), .50-81(a), (b)	G	
Vinyl neodecanate	VND	13	0	E	111	Α	No	N/A	.50-70(a), 50-81(a), (b)	G	
Subchapter D Cargoes Authorized for Vapor Conti	rol	SANGARAM AND A SANGARAM	s lika esisteda (litzistika	Haliful (A) Internation (Annual	San	of I person from the last survey of	VI. 11444 - 1440 - 1444	is the second		de la	
Acetone	ACT	18 2	D	С		· A	Yes	1			
Acetophenone	ACP	18	D	E		A	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	Đ		Α	Yes	1			
Amyl alcohol (iso-, n-, sec-, primary)	AAI	20	D	D		Α	Yes	1	79.4		
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 their borate esters)	BFX	20	D	E		A	Yes	1			
Butyl acetate (all isomers)	BAX	34	D	D		Α	Yes	1			
Butyl alcohol (iso-)	IAL	20 2	D	D		Α	Yes	1			
Butyl alcohol (π-)	BAN	20 ²	D	D		Α	Yes	1			
Butyl alcohol (sec-)	BAS	20 ²	D	С		Α	Yes	1			
Butyl alcohol (tert-)	BAT	-74277	D	С			Yes	1	7.6		
Butyl benzyl phthalate	BPH	34	D	E		A	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		A	Yes	1	, (A) (A)		
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	1			
iso-Decaldehyde	IDA	19	D	E		Α	Yes	1	· · · · · · · · · · · · · · · · · · ·		
n-Decaldehyde	DAL	19	D	E		Α	Yes	1			
Decene	DCE	30	D			A	Yes	1			
Decyl alcohol (all isomers)	DAX	20 2	D -	E		<u>A</u>	Yes	1	0.00		
п-Decylbenzene, see Alkyl(С9+)benzenes	DBZ	32	D	- <u>-</u>		Α	Yes	1	//		
Diacetone alcohol	DAA	20 2	D	D		A	Yes	1			
ortho-Dibutyl phthalate	DPA	34	ο	E		Α	Yes	. '			
Diethylbenzene	DEB	32	 D	D		A		. '			
Diethylene glycol	DEG	40 ²	D	E		A	Yes Yes	1			
Diisobutylene	DBL	- TU -				Л	1 62	1			

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Official #: 1248382

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Shipyard: Trinity Marine Madisonville

Cargo Identification	on							Condi	tions of Carriage	
		ļ _					Vapori	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.
Diisobutyl ketone	DIK	18	D	D		A	Yes	1	1 to 1 Octional and Maris of	Penn
Diisopropylbenzene (all isomers)	DIX	32	D	E		Α	Yes	1		
Dimethyl phthalate	DTL	34	D	Е		Α	Yes	1		
Dioctyl phthalate	DOP	34	D	Ε		Α	Yes	1		
Dipentene	DPN	30	D	D		Α	Yes	1		
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}		Α	Yes	1	TO A Maria	
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	Е		Α	Yes	1		
Dodecene (all isomers)	DOZ	30	D	D		A	Yes	1		
Dodecylbenzene, see Alkyl(C9+)benzenes	DDB	32	D	E		Α	Yes	1		
2-Ethoxyethyl acetate	EEA	34	D	D		Α	Yes	1		
Ethoxy triglycol (crude)	ETG	40	D	E		Α	Yes	1	m _{est} , and the second	
Ethyl acetate	ETA	34	D	С		Α	Yes	1		
Ethyl acetoacetate	EAA	34	D	Е		Α	Yes	 1		
Ethyl alcohol	EAL	20 2	D	С		A	Yes	1		
Ethylbenzene	ETB	32	D	С		Α	Yes	1		
Ethyl butanol	EBT	20	D	D		A	Yes	~ <u></u>		
Ethyl tert-butyl ether	EBE	41	D			Α	Yes	: 1		
Ethyl butyrate	EBR	34		D		A	Yes	 1	***************************************	
Ethyl cyclohexane	ECY	31	D			A	Yes	<u>·</u>		-/
Ethylene glycol	EGL	20 2		 E		A	Yes	<u>·</u> 1		
Ethylene glycol butyl ether acetate	ЕМА	34	 D	E .	*****	<u>`</u>	Yes			** • • • • • • • • • • • • • • • • • •
Ethylene glycol diacetate	EGY	34	 D	 E		::. A	Yes	· -:		
Ethylene glycol phenyl ether	EPE	40	D	E		A	Yes	1		
Ethyl-3-ethoxypropionate	EEP	34	D			A	Yes	1		
2-Ethylhexanol	EHX	20	D	E		A	Yes	1		
Ethyl propionate	EPR	34	D	- C		Α	Yes	1		
Ethyl toluene	ETE	32	D	D		<u>∩</u>	Yes	· · · · · · · · · · · · · · · · · · ·		
Formamide	FAM	10		E		A A	Yes			
Furfuryl alcohol	FAL	20 2						1		
Gasoline blending stocks: Alkylates	GAK	33	D D	A/C	***************************************	A	Yes	1		
Gasoline blending stocks: Reformates	GRF	33	D	A/C			Yes	1 .		
Gasolines: Automotive (containing not over 4.23 grams lead per gallon)	GAT	33	D	C		A	Yes Yes	1		
Gasolines: Aviation (containing not over 4.86 grams of lead per gallon)	GAV	33	D	С		A	Yes	1		
Gasolines: Casinghead (natural)	GCS	33	D	A IC		Λ	V		7070.5	
Gasolines: Polymer	GPL			A/C		A	Yes	1	70.00	
Gasolines: Straight run		33	D	A/C		A	Yes		And the second state of th	
Glycerine	GSR	33	D	A/C		A	Yes	1		
Heptane (all isomers), see Alkanes (C6-C9) (all isomers)	GCR	20 2		E		A	Yes	1	To a Small to Marks	
	HMX	31	D	<u>.</u>		A	Yes			
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		<u>C</u>		Α	Yes	2	- transition	
Heptyl acetate	HPE .	34	D	_E		A	Yes	1		_
Hexane (all isomers), see Alkanes (C6-C9)	HXS	31 2	D	B/C		Α	Yes	1		



erial #: C1-1300352 Dated: 07-Feb-13

Certificate of Inspection

Cargo Authority Attachment

Vessel Name: HTCO 3109

· Ompy

Shipyard: Trinity Marine

Madisonville Hull #: 2210-14

Official #: 1248382

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Cargo Ident	incation				_#			Condi	tions of Carriage	
				. :				Recovery		***************************************
Name Hexanoic acid	Chem Code HXO	Group No	Sub Chapte D	riGnade Tvi	oe 🏻 f	Tank Group A	App'd (Yor N) Yes	VCS Category 1		Insp. Perio
Hexanol	HXN	20	D			A	Yes	1		
Hexene (all isomers)	HEX	30	D	C		 A	Yes			
Hexylene glycol	HXG	20		E		A	Yes	2	WAS AND THE STREET	
Isophorone	IPH	18 2	D	 E	1					
Jet fuel: JP-4	JPF	33	D	Ē		A	Yes	1		
Jet fuel: JP-5 (kerosene, heavy)	JPV	33	- <u>D</u>	D		<u>A</u>	Yes	1		
Kerosene	KRS	33	D	D		A	Yes	1		
Methyl acetate	MTT	34				Α	Yes	. 1		
Methyl alcohol	MAL	20 2	D D	D		A	Yes	1		
Methylamyl acetate	MAC			С		A	Yes	1		
Methylamyl alcohol		34	D	D		Α	Yes	1		
	MAA	20	D	<u>D</u>		A	Yes	1		
Methyl amyl ketone	MAK	18	Đ	D		A	Yes	1		
Methyl tert-butyl ether	MBE	41 2	D	С		Α	Yes	1		
Methyl butyl ketone	MBK	18	D	С		A	Yes	1		
Methyl butyrate	MBU	34	<u>D</u>	C		Α	Yes	1		
Methyl ethyl ketone	MEK	18 2	D	. C		Α	Yes	1		
Methyl heptyl ketone	MHK	18	D	D		Α	Yes	1		
Methyl isobutyl ketone	MIK	18 2	D	<u>C</u>		Α	Yes	1		
Methyl naphthalene (molten)	MNA	32	D	E		Α	Yes	1		
Mineral spirits	MNS	33	D	D		Α	Yes	1		
Myrcene	MRE	30	D	D		Α	Yes	1		
Naphtha: Heavy	NAG	33	D	#		A	Yes	1		
Naphtha: Petroleum	PTN	33	D	#		A	Yes	1	- W	
Naphtha: Solvent	NSV	33	D	D		Α	Yes	1		
Naphtha: Stoddard solvent	NSS	33	D	D		Α	Yes	1		
Naphtha: Varnish makers and painters (75%)	NVM	33	D	С		Α	Yes	1		
Nonane (all isomers), see Alkanes (C6-C9)	NAX	31	D	D		A	Yes	1		
Nonene (all isomers)	NON	30	D	D		Α	Yes	2		
Nonyl alcohol (all isomers)	NNS	20 ²	D	Ē.		Α	Yes	1		
Nonyl phenol	NNP	21	D	E		A	Yes	1		
Nonyl phenol poly(4+)ethoxylates	NPE	40	D	E		Α	Yes	1		
Octane (all isomers), see Alkanes (C6-C9)	OAX	31	D	С		A	Yes	1		
Octanoic acid (all isomers)	OAY	4	D		/····	A	Yes	1		··· -
Octanol (all isomers)	OCX	20 2	D	E		Α	Yes	1		
Octene (all isomers)	OTX	30	D	С		A	Yes	2		
Oil, fuel: No. 2	OTW	33	D	D/E		Α	Yes	1		
Oil, fuel: No. 2-D	OTD	33	D	D		A	Yes	1	The state of the s	
Oil, fuel: No. 4	OFR	33	D	D/E		Α	Yes	1	· · · · · · · · · · · · · · · · · · ·	
Oil, fuel: No. 5	OFV	33	D	D/E		ΑA	Yes	1		
Oil, fuel: No. 6	OSX	33	D	E		A	Yes	1		
Oil, misc: Crude	OIL	33	D	C/D		Л А	Yes	1		
Oil, misc: Diesel	ODS	33	D	D/E		Α	Yes	1		
Oil, misc: Gas, high pour	OGP	33	D	E		A				
Oil, mise: Lubricating	OLB	33	D	E			Yes		14/0/14/4	
Oil, misc: Residual	ORL	33	D	 E		A	Yes	1	<u> </u>	
Oil, misc: Nesidual Oil, misc: Turbine						A	Yes	1		
Pentane (all isomers)	OTB PTY	33 31	D D	. Е А		A A	Yes	5	* * · · · · · · · · · · · · · · · · · ·	



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Certificate of Inspection

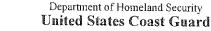
Cargo Authority Attachment

Vessel Name: HTCO 3109
Official #: 1248382

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Shipyard: Trinity Marine Madisonville

Cargo Identification						Conditions of Carriage			
					1:		Recovery		
Name Pentene (all isomers)	Chem Code PTX	Compat Group No 30	Sub Chapter D		Hull Tank voe Grovin A	App'd (Y or N) Yes	VCS Category 5	Special Requirements in 46 CFR Insp 151 General and Mat'ls of Peni	
n-Pentyl propionate	PPE	34	D	D	Α	Yes	1	401.5	
alpha-Pinene	PIO	30	D	D	Α	Yes	1		
beta-Pinene	PIP	30	D	D	А	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	Е	Α	Yes	1		
Polybutene	PLB	30	D	E	Α	Yes	1		
Polypropylene glycol	PGC	40	D	E	Α	Yes	1		
iso-Propyl acetate	IAC	34	D	С	Α	Yes	1		
n-Propyl acetate	PAT	34	D	С	А	Yes	1		
iso-Propyl atcohol	IPA	20 ²	D	С	Α	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	IPX	31	D	D	Α	Yes	1		
Propylene glycol	PPG	20 ²	Đ	E	A	Yes	1		
Propylene glycol methyl ether acetate	PGN	34	D	D	А	Yes	1	7.12	
Propylene tetramer	PTT	30	D	D	Α	Yes	1		
Sulfolane	SFL	39	Ď	E	А	Yes	1		
Tetraethylene glycol	TTG	40	D	E	Α	Yes	1		
Tetrahydronaphthalene	THN	32	D	E	А	Yes	1	-91-W. 164	
Toluene	TOL	32	D	С	Α	Yes	1		
Tricresyl phosphate (less than 1% of the ortho isomer)	TCP	34	D	E	Α	Yes	1	1949	
Triethylbenzene	TEB	32	D	E	A	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		
Trixylenyl phosphate	TRP	34	D	E	A	Yes	1		
Undecene	UDC	30	D	D/E	A	Yes	1		
1-Undecyl alcohol	UND	20	D	E	Α	Yes	1		
Xylenes (ortho-, meta-, para-)	XLX	32	D	D	Α	Yes	1		



Serial #: C1-1300352

Dated: 07-Feb-13

Certificate of Inspection Cargo Authority Attachment

Vessel Name: HTCO 3109 Official #: 1248382

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Shipyard: Trinity Marine

Hull #: 2210-14

Explanation of terms & symbols used in the Table;

Cargo Identification

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.

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 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 Subchapter O Note 3

The subchapter in Title 46 Code of Federal Regulations under which the cargo has been classified. e subchapter in Title 40 Code of Pederal Regulations of the Table 30,25-1.

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.

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 carones, 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

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The required barge hull classification for carriage of the specified Subchapter O hazardous material cargo, see 48 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

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 Carnage

Tank Group Vapor Recover 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

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

Category 5

(High vapor pressure) VCS pressure drop calculations for cargoes with a vapor pressure greater than 14.7 psia at 115 F must take into account increased vapor-air mixture densities and vapor growth rates as compared to Category 1cargoes. Consult the Marine Safety Center's VCS Guidelines for further information. This requirement is in addition to the requirements of Category 1.

Category 6

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