



Vessel name: HOS CENTERLINE
 Shipyard: EASTERN SHIPBUILDING GROUP

Hull number: 14
 ABS ID: 9200809

IMO Number: 9040546

Product name	Tank group(s)	Conditions	Pollution Category
Paraldehyde	A		Z
Vinyl acetate	A	1, 2, 3, 4, 5	Y
Methyl acetate	A		Z
Ethyl acetate	A		Z
Methyl acetoacetate	A		Z
Ethyl acetoacetate	A		Z
Acrylonitrile-Styrene copolymer dispersion in polyether polyo	A		Y
Adiponitrile	A		Z
Alcohol (C12-C15) poly(7-19)ethoxylates	A		Y
Alcohol (C9-C11) poly (2.5-9) ethoxylate	A		Y
Heptanol (all isomers)	A		Y
2-Methyl-5-ethyl pyridine	A		Y
Alkyl sulfonic acid ester of phenol	A		Y
n-Alkanes (C10+)	A		Z
Alkyl (C12-C14) polyglucoside solution (55% or less)	A		Y
Alkyl (C8-C10) polyglucoside solution (65% or less)	A		Y
Alkyl (C8-C10)/(C12-C14):(40% or less/60% or more) polyglu	A		Y
Alkyl (C8-C10)/(C12-C14):(50%/50%) polyglucoside solution	A		Y
Alkyl (C8-C10)/(C12-C14):(60% or more/40% or less) polyglu	A		Y
Alkyl (C8-C40) phenol sulfide	A		Z
Alkyl (C9+) benzenes	A		Z
Alkyl (C9-C15) phenyl propoxylate	A		Z
Alkyl dithiocarbamate (C19-C35)	A		Y
Alkylbenzene, alkylindane, alkylindene mixture (each C12-C	A		Z
Alkyldithiothiadiazole (C6-C24)	A		Z
Isophoronediamine	A		Y
2-Amino-2-methyl-1-propanol	A		Z
Isopropanolamine	A		Y
Glycine, sodium salt solution	A		Z
Cyclohexylamine	A		Y
Ethanolamine	A		Y
2-(2-Aminoethoxy) ethanol	A		Z
Aminoethyl ethanolamine	A		Z
N-Aminoethylpiperazine	A		Z
Aminoethyldiethanolamine/Aminoethylethanolamine solution	A		Z
n-Propanolamine	A		Y
Ammonium hydrogen phosphate solution	A		Z
Ammonium lignosulfonate solutions	A		Z
Ammonium polyphosphate solution	A		Z
Ammonium thiosulfate solution (60% or less)	A		Z
Amyl acetate (all isomers)	A		Y
n-Amyl alcohol	A		Z
sec- Amyl alcohol	A		Z
tert-Amyl alcohol	A		Z
Amyl alcohol, primary	A		Z
Hexanol	A		Y
Methyl amyl ketone	A		Z

Furfural	A		Y
Diethylenetriamine	A		Y
Benzene sulfonyl chloride	A		Z
Benzyl alcohol	A		Y
Methyl salicylate	A		Y
Glyoxal solution (40% or less)	A		Y
Diethylene glycol diethyl ether	A		Z
Diethanolamine	A		Y
2,4-Dichlorophenoxyacetic acid, diethanolamine salt solution	A		Y
Diisopropanolamine	A		Z
Brake fluid base mix: Poly(2-8)alkylene (C2-C3) glycols/Poly	A		Z
Bromochloromethane	A		Z
Methyl ethyl ketone	A		Z
gamma-Butyrolactone	A		Y
Butyraldehyde (all isomers)	A		Y
tert-Butyl alcohol	A		Z
Butyl acetate (all isomers)	A		Y
Ethylene glycol monoalkyl ethers	A		Y
Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether	A		Z
Ethylene glycol butyl ether acetate	A		Y
Propylene glycol monoalkyl ether	A		Z
Butyl butyrate (all isomers)	A		Y
Ethyl tert-butyl ether	A		Y
Diisobutyl ketone	A		Y
Butyl methacrylate	A	1, 2, 3, 4, 5	Z
Methyl tert-butyl ether	A		Z
Methyl butyl ketone	A		Y
n-Butyl propionate	A		Y
Butylene glycol	A		Z
3-Methoxy-1-butanol	A		Z
3-Methoxybutyl acetate	A		Y
Tetrahydrofuran	A		Z
Hexene (all isomers)	A		Y
sulfurized polyolefinamide alkene (C28-C250) amine	A		Z
Dipentene	A		Y
Calcium carbonate slurry	A		Z
Calcium hydroxide slurry	A		Z
Calcium lignosulfonate solutions	A		Z
Calcium long-chain alkaryl sulfonate (C11-C50)	A		Z
Calcium long-chain alkyl(C11-C40) phenate	A		Z
Calcium long-chain alkyl(C5-C10) phenate	A		Y
Calcium nitrate/Magnesium nitrate/Potassium chloride solutio	A		Z
Hexanoic acid	A		Y
Octanoic acid (all isomers)	A		Z
epsilon-Caprolactam (molten or aqueous solutions)	A		Z
n-Octyl acetate	A		Y
Urea solution	A		Z
Methyl alcohol	A		Y
Diethylenetriaminepentaacetic acid, pentasodium salt solutio	A		Z
Potassium hydroxide solution	A		Y
Sodium hydroxide solution	A		Y
2-Ethoxyethyl acetate	A		Y
Choline chloride solutions	A		Z
Styrene monomer	A	1, 2, 3, 4, 5	Y
Citric acid (70% or less)	A		Z

Propylbenzene (all isomers)	A		Y
Cyclohexanone	A		Z
Cyclohexanone, Cyclohexanol mixture	A		Y
Cyclohexyl acetate	A		Y
2,4-Dichlorophenoxyacetic acid, triisopropanolamine salt sol	A		Y
Dimethylethanolamine	A		Y
Diacetone alcohol	A		Z
Dialkyl (C8-C9) diphenylamines	A		Z
Dibutyl hydrogen phosphonate	A		Y
Dibutylamine	A		Y
1,1-Dichloroethane	A		Z
Dichloromethane	A		Y
Diethylene glycol phthalate	A		Y
Hexamethylene glycol	A		Z
Dimethyl glutarate	A		Y
Dimethyl hydrogen phosphite	A		Y
Dimethyl phthalate	A		Y
Dimethyl succinate	A		Y
2-Methyl-2-hydroxy-3-butyne	A		Z
Methylamyl alcohol	A		Z
Xylenol	A		Y
Dimethylpolysiloxane	A		Y
2,2-Dimethylpropane -1,3-diol (molten or solution)	A		Z
Triethyl phosphite	A		Z
Sulfolane	A		Y
Dipropylene glycol	A		Z
Sodium carbonate solution	A		Z
Dodecyl methacrylate	A	1, 2, 3	Z
Dodecyl/Octadecyl methacrylate (mixture)	A	1, 2, 3, 4, 5	Z
Dodecylbenzene	A		Z
Potassium chloride solution (10% or more)	A		Z
n-Heptanoic acid	A		Z
Ethylene glycol	A		Y
Ethyl 3-ethoxypropionate	A		Y
n-propyl alcohol	A		Y
Ethyl methacrylate	A	1, 2, 3, 4, 5	Y
Triethyl phosphate	A		Z
2-Methyl-6-ethyl aniline	A		Y
2-Ethyl-3-propylacrolein	A		Y
2-Ethylhexanoic acid	A		Y
Ethylenediaminetetraacetic acid, tetrasodium salt solution	A		Y
Ethylene cyanohydrin	A		Y
Ethylene glycol acetate	A		Y
Ethylene glycol diacetate	A		Y
Ethylene glycol methyl ether acetate	A		Y
Ethylene glycol phenyl ether	A		Z
Ethylene glycol phenyl ether/Diethylene glycol phenyl ether n	A		Z
1,1,1-Trichloroethane	A		Y
Formaldehyde solutions (45% or less)	A		Y
1,3,5-Trioxane	A		Y
Formamide	A		Y
Dimethylformamide	A		Y
Glutaraldehyde solutions (50% or less)	A		Y
Glyceryl triacetate	A		Z
Glycolic acid solution (70% or less)	A		Z

Morpholine	A		Y
Heptene (all isomers)	A		Y
Polyethylene glycol	A		Z
Hexamethylenediamine adipate solution (50% in water)	A		Z
Hexamethylenediamine solution	A		Y
Methyl isobutyl ketone	A		Z
2-Hydroxy-4-(methylthio)-butanoic acid	A		Z
Lactic acid	A		Z
Iso- and cyclo-alkanes (C10-C11)	A		Z
Iso- and cyclo-alkanes (C12+)	A		Z
Isophorone	A		Y
Isoamyl alcohol	A		Z
Isobutyl alcohol	A		Z
Isobutyl formate	A		Z
Nonanoic acid (all isomers)	A		Y
Isopropyl acetate	A		Z
2,2,4-Trimethyl-1,3 pentanediol diisobutyrate	A		Z
Mesityl oxide	A		Z
Tripropylene glycol	A		Z
L-Lysine solution (60% or less)	A		Z
Latex, ammonia (1% or less), inhibited	A		Y
Latex: Carboxylated styrene-Butadiene copolymer; Styrene-B	A		Z
Ligninsulfonic acid, sodium salt solution	A		Z
Magnesium chloride solution	A		Z
Methacrylic acid - alkoxy poly (alkylene oxide) methacrylate	A		Z
Methacrylic acid	A	1, 2, 3, 4	Y
Propylene glycol methyl ether acetate	A		Z
3-Methyl-3-methoxybutanol	A		Z
Methyl butyrate	A		Y
Methyl diethanolamine	A		Y
2-Methyl-1,3-propanediol	A		Z
N-Methyl-2-pyrrolidone	A		Y
Methylbutynol	A		Z
Polyethylene glycol dimethyl ether	A		Z
Toluene	A		Y
Methylbutenol	A		Y
Petrolatum	A		Y
Oxygenated aliphatic hydrocarbon mixture	A		Z
Triethanolamine	A		Z
Nitrilotriacetic acid, trisodium salt solution	A		Y
Naphthalenesulfonic acid-Formaldehyde copolymer, sodium	A		Z
Triisopropanolamine	A		Z
1- or 2-Nitropropane	A		Y
Noxious liquid, F, (10) n.o.s. (trade name..., contains...) ST3,	A		Z
Noxious liquid, F, (8) n.o.s. (trade name..., contains...) ST3, (A	6	Y
Noxious liquid, NF, (7) n.o.s. (trade name..., contains...) ST3,	A	6	Y
Noxious liquid, NF, (9) n.o.s. (trade name..., contains...) ST3,	A		Z
2-Ethylhexyl acrylate	A	1, 2, 3, 4, 5	Y
Olefin mixtures (C5-C7)	A		Y
Tetraethylene glycol	A		Z
Pentanoic acid	A		Y
n-Pentyl propionate	A		Y
1-Phenyl-1-xylyl ethane	A		Y
Poly(5+)propylene	A		Y
Sodium poly(4+)acrylate solutions	A		Z

Polypropylene glycol	A		Z
Polyacrylic acid solution (40% or less)	A		Z
Polyferric sulfate solution	A		Y
Polyisobutenamine in aliphatic (C10-C14) solvent	A		Y
Polyisobutenyl anhydride adduct	A		Z
Potassium thiosulfate (50% or less)	A		Y
Propionic anhydride	A		Y
n-Propyl acetate	A		Y
Propylene glycol phenyl ether	A		Z
Sodium aluminosilicate slurry	A		Z
Sodium borohydride (15% or less)/Sodium hydroxide solution	A		Y
Sodium chlorate solution (50% or less)	A		Z
Sodium hydrogen sulfide (6% or less)/Sodium carbonate (3%)	A		Z
Sodium hydrogen sulfite solution (45% or less)	A		Z
Sodium thiocyanate solution (56% or less)	A		Y
Sodium silicate solution	A		Y
Sodium sulfide solution (15% or less)	A		Y
Sodium sulfite solution (25% or less)	A		Y
Sulfonated polyacrylate solution	A		Z
Sulfurized fat (C14-C20)	A		Z
Titanium dioxide slurry	A		Z
Tributyl phosphate	A		Y
1,1,2-Trichloroethane	A		Y
Tridecyl acetate	A		Z
N-(Hydroxyethyl) ethylenediamine triacetic acid, trisodium salt	A		Y
Urea/Ammonium nitrate solution (containing aqua ammonia)	A		Z
Urea/Ammonium nitrate solution	A		Z
Acetone	A		Z
Alcoholic beverages, n.o.s.	A		Z
Apple juice	A		OS
n-Butyl alcohol	A		Z
sec-Butyl alcohol	A		Z
Calcium nitrate solutions (50% or less)	A		Z
Clay slurry	A		OS
Coal slurry	A		OS
Diethylene glycol	A		Z
Ethyl alcohol (Ethanol)	A		Z
Ethylene carbonate	A		Z
Glucose solution	A		OS
Glycerine	A		Z
Glycerol monooleate	A		Z
Hexamethylenetetramine solutions	A		Z
Hexylene glycol	A		Z
Isopropyl alcohol	A		Z
Kaolin slurry	A		OS
Lecithin	A		OS
Magnesium hydroxide slurry	A		Z
N-Methylglucamine solution (70% or less)	A		Z
Methyl propyl ketone	A		Z
Molasses	A		OS
Noxious liquid, (11) n.o.s. (trade name contains) Cat. Z	A		Z
Non-noxious liquid, (12) n.o.s. (trade name contains) Cat.	A		OS
Polyaluminium chloride solution	A		Z
Polyglycerin, sodium salt solution (containing < 3% NaOH)	A		Z
Potassium formate solutions	A		Z

Propylene carbonate	A		Z
Propylene glycol	A		Z
Sodium acetate solutions	A		Z
Sodium sulphate solutions	A		Z
Sorbitol solution	A		OS
Tetraethyl silicate monomer/oligomer (20% in ethanol)	A		Z
Triethylene glycol	A		Z
Water	A		OS
Vegetable protein solution (hydrolysed) (a)	A		OS

Tank Group "A" - 8P, 8C, 8S, 10P, 10C, 10S, 12P, 12C, 12S (Slop), 14P, 14C, 14S, 16P, 16C, 16S

276 chemicals

Carriage conditions

1 (Cargoes protected by additives) 15.13.1

This cargo, by the nature of their chemical make up, tend, under certain conditions of temperature, exposure to air or contact with catalyst, to undergo polymerization, decomposition, oxidation or other chemical changes. Mitigation of this tendency is carried out by introducing small amounts of chemical additives into the liquid cargo or controlling the cargo-tank environment.

2 (Cargoes protected by additives) 15.13.2

This cargo should not be carried if the material of construction for the cargo tank and cargo-handling system can act as a catalyst or destroy the the inhibitor.

3 (Cargoes protected by additives) 15.13.3

Care should be taken to ensure that these cargoes are sufficiently protected to prevent deleterious chemical change at all times during the voyage. Ships carrying such cargoes should be provided with a certificate of protection from the manufacturer, to be kept during the voyage, specifying:

1. the name and amount of additive present;
2. whether the additive is oxygen-dependent;
3. date additive was put in the product and duration of effectiveness;
4. any temperature limitations qualifying the additives' effective lifetime; and
5. the action to be taken should the length of voyage exceed the effective lifetime of the additives.

4 16.6.1 Where the possibility exists of a dangerous reaction of a cargo, such as polymerization, decomposition, thermal instability or evolution of gas, resulting from local overheating of the cargo in either the tank or associated pipelines, such cargo should be loaded and carried adequately segregated from other products whose temperature is sufficiently high to initiate a reaction of such cargo. When overheating could result in a dangerous condition, an alarm system which monitors the cargo temperature should be provided.

5 16.6.2 Heating coils in tanks carrying this product should be blanked off or secured by equivalent means.

6 (Overflow-control system) 15.19.8

The loading rate (LR) of the tank should not exceed:

$$LR = (3600U / t)(m^3/h)$$

where

U = ullage volume (m³) at operating signal level;

t = time(s) needed from the initiating signal to fully stopping the cargo flow into the tank, being the sum of times needed for each step in sequential operations such as operator's responses to signals, stopping pumps and closing valves; and should also take into account the pipeline system design pressure.