HALLIBURTON

MATERIAL SAFETY DATA SHEET

Product Trade Name: HI SOL 10

Revision Date: 02-Jan-2013

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Trade Name: HI SOL 10 Synonyms: None

Chemical Family: Aromatic hydrocarbon

Application: Solvent

Manufacturer/Supplier Halliburton Energy Services

P.O. Box 1431

Duncan, Oklahoma 73536-0431

Emergency Telephone: (281) 575-5000

Prepared By Chemical Compliance

Telephone: 1-580-251-4335

e-mail: fdunexchem@halliburton.com

2. COMPOSITION/INFORMATION ON INGREDIENTS

Substances	CAS Number	PERCENT	ACGIH TLV-TWA	OSHA PEL-TWA
1,3,5 Trimethylbenzene	108-67-8	7-11	Not applicable	25 ppm
Cumene	98-82-8	1.5-5	50 ppm	50 ppm (S)
Xylene	1330-20-7	0.9-2.1	100 ppm	100 ppm
Light aromatic solvent	64742-95-6	60 - 100%	Not applicable	Not applicable
1,2,4 Trimethylbenzene	95-63-6	30-42	25 ppm	Not applicable

3. HAZARDS IDENTIFICATION

Hazard Overview May cause eye, skin, and respiratory irritation. May cause headache, dizziness, and

other central nervous system effects. May be harmful if swallowed. Combustible.

4. FIRST AID MEASURES

Inhalation If inhaled, remove to fresh air. If not breathing give artificial respiration, preferably

mouth-to-mouth. If breathing is difficult give oxygen. Get medical attention.

Skin In case of contact, immediately flush skin with plenty of soap and water for at least 15

minutes. Get medical attention. Remove contaminated clothing and launder before

reuse.

Eyes In case of contact, or suspected contact, immediately flush eyes with plenty of water

for at least 15 minutes and get medical attention immediately after flushing.

Ingestion Get medical attention! If vomiting occurs, keep head lower than hips to prevent

aspiration.

Notes to Physician Not Applicable

FIRE FIGHTING MEASURES

Flash Point/Range (F): 104 Flash Point/Range (C): 40.6 Flash Point Method: **PMCC**

Autoignition Temperature (F): Not Determined **Autoignition Temperature (C):** Not Determined

Flammability Limits in Air - Lower (%): 1 Flammability Limits in Air - Upper (%): 7

Fire Extinguishing Media Carbon Dioxide, Dry Chemicals, Foam.

Special Exposure Hazards Use water spray to cool fire exposed surfaces. Closed containers may explode in

fire. Decomposition in fire may produce toxic gases.

Fire-Fighters

Special Protective Equipment for Full protective clothing and approved self-contained breathing apparatus required for

fire fighting personnel.

NFPA Ratings: Health 1, Flammability 2, Reactivity 0 **HMIS Ratings:** Health 1, Flammability 2, Reactivity 0

ACCIDENTAL RELEASE MEASURES

Personal Precautionary Measures Use appropriate protective equipment. Wear self-contained breathing apparatus in

enclosed areas.

Environmental Precautionary

Measures

Prevent from entering sewers, waterways, or low areas.

Procedure for Cleaning /

Absorption

Isolate spill and stop leak where safe. Remove ignition sources and work with non-

sparking tools. Contain spill with sand or other inert materials. Scoop up and

remove.

HANDLING AND STORAGE

Handling Precautions Avoid contact with eyes, skin, or clothing. Avoid breathing vapors. Wash hands after

use. Launder contaminated clothing before reuse.

Store away from oxidizers. Keep from heat, sparks, and open flames. **Storage Information**

EXPOSURE CONTROLS/PERSONAL PROTECTION

Use in a well ventilated area. Local exhaust ventilation should be used in areas **Engineering Controls**

without good cross ventilation.

Respiratory Protection Organic vapor respirator.

In high concentrations, supplied air respirator or a self-contained breathing

apparatus.

Hand Protection Impervious rubber gloves.

Skin Protection Rubber apron.

Eye Protection Chemical goggles; also wear a face shield if splashing hazard exists.

Other Precautions Eyewash fountains and safety showers must be easily accessible.

PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid Color: Amber

Odor: Aromatic hydrocarbon Not Determined

Specific Gravity @ 20 C (Water=1): 0.865 Density @ 20 C (lbs./gallon): 7.2

Bulk Density @ 20 C (lbs/ft3): Not Determined

Boiling Point/Range (F): 308 153 **Boiling Point/Range (C):** Freezing Point/Range (F): -63 Freezing Point/Range (C): -53 3 Vapor Pressure @ 20 C (mmHg): Vapor Density (Air=1): 4.15 **Percent Volatiles:** 100 **Evaporation Rate (Butyl Acetate=1):** 0.15 Solubility in Water (g/100ml): Insoluble Solubility in Solvents (q/100ml): Not Determined VOCs (lbs./gallon): Not Determined Viscosity, Dynamic @ 20 C (centipoise): Not Determined Viscosity, Kinematic @ 20 C (centistokes): Not Determined Partition Coefficient/n-Octanol/Water: Not Determined

Molecular Weight (g/mole): Not Determined

STABILITY AND REACTIVITY

Stability Data: Stable

Hazardous Polymerization: Will Not Occur

Conditions to Avoid None anticipated

Incompatibility (Materials to

Avoid)

Strong oxidizers.

Hazardous Decomposition

Products

Toxic fumes. Carbon monoxide and carbon dioxide.

Additional Guidelines Not Applicable

TOXICOLOGICAL INFORMATION

Principle Route of Exposure Eye or skin contact, inhalation.

May cause respiratory irritation. May cause central nervous system depression Inhalation

including headache, dizziness, drowsiness, incoordination, slowed reaction time,

slurred speech, giddiness and unconsciousness.

Skin Contact May cause moderate skin irritation.

Eye Contact May cause severe eye irritation.

Irritation of the mouth, throat, and stomach. May cause abdominal pain, vomiting, Ingestion

nausea, and diarrhea. Aspiration into the lungs may cause chemical pneumonitis

including coughing, difficulty breathing, wheezing, coughing up blood and

pneumonia, which can be fatal.

Aggravated Medical Conditions Skin disorders. Eye ailments. Chronic Effects/Carcinogenicity Prolonged or repeated exposure may cause central nervous system and brain

effects.

Other Information None known.

Toxicity Tests

Oral Toxicity: Not determined

Dermal Toxicity: Not determined

Inhalation Toxicity: Not determined

Primary Irritation Effect: Not determined

Carcinogenicity Not determined

Genotoxicity: Not determined

Reproductive /

Developmental Toxicity:

Not determined

12. ECOLOGICAL INFORMATION

Mobility (Water/Soil/Air) Not determined

Persistence/Degradability Not determined

Bio-accumulation Not determined

Ecotoxicological Information

Acute Fish Toxicity: Not determined Acute Crustaceans Toxicity: Not determined Acute Algae Toxicity: Not determined

Chemical Fate Information Not determined

Other Information Not applicable

13. DISPOSAL CONSIDERATIONS

Disposal Method Disposal should be made in accordance with federal, state, and local regulations.

Contaminated Packaging Follow all applicable national or local regulations.

14. TRANSPORT INFORMATION

Land Transportation

DOT

UN1268,Petroleum Distillates, N.O.S., 3, III, (43.3 C) NAERG 128

Canadian TDG

Petroleum Distillates, N.O.S., 3, UN1268, III, (43.3 C)

ADR

UN1268, Petroleum Distillates, N.O.S., 3, III

Air Transportation

ICAO/IATA

UN1268, Petroleum Distillates, N.O.S., 3, III

Sea Transportation

IMDG

UN1268,Petroleum Distillates, N.O.S., 3, III, (43.3 C) EmS F-E, S-E

Other Transportation Information

Labels: Flammable Liquid

15. REGULATORY INFORMATION

US Regulations

US TSCA Inventory All components listed on inventory or are exempt.

EPA SARA Title III Extremely Hazardous Substances

Not applicable

EPA SARA (311,312) Hazard

Class

Acute Health Hazard

Fire Hazard

EPA SARA (313) ChemicalsThis product contains toxic chemical(s) listed below which is(are) subject to the

reporting requirements of Section 313 of Title III of SARA and 40 CFR Part 372:

Xylene//1330-20-7 Cumene//98-82-8

1,2,4-Trimethylbenzene//95-63-6

EPA CERCLA/Superfund Reportable Spill Quantity

EPA Reportable Spill Quantity is 158 Gallons based on Xylene (CAS: 1330-20-7).

EPA RCRA Hazardous Waste

Classification

If product becomes a waste, it does meet the criteria of a hazardous waste as

defined by the US EPA, because of:

Ignitability D001

California Proposition 65 The California Proposition 65 regulations apply to this product.

MA Right-to-Know Law

One or more components listed.

NJ Right-to-Know Law

One or more components listed.

PA Right-to-Know Law One or more components listed.

Canadian Regulations

Canadian DSL Inventory

All components listed on inventory or are exempt.

WHMIS Hazard Class

B3 Combustible Liquids D1B Toxic Materials

16. OTHER INFORMATION

The following sections have been revised since the last issue of this MSDS

Not applicable

Additional Information

For additional information on the use of this product, contact your local Halliburton

representative.

For questions about the Material Safety Data Sheet for this or other Halliburton

products, contact Chemical Compliance at 1-580-251-4335.

Disclaimer Statement

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END OF MSDS