



## HDS

### SECTION I – CHEMICAL PRODUCT/CHEMICAL IDENTIFICATION

**Product Name:** HDS  
**Manufacturer:** Horizon Mud Company  
500 West Wall, Suite 280  
Midland, Texas 79702  
(432) 687-1171  
**Chemical Family:** Blend  
**Product Use:** Drilling Mud Detergent

**Emergency Telephone Number:**  
CHEMTREC: 1-800-424-9300 or International +1-703-527-3887

### SECTION II – COMPOSITION/INFORMATION ON INGREDIENTS

Components:	%	CAS#
Diethanolamine	4 - 6	111-42-2

### SECTION III – HAZARDS IDENTIFICATION

**OVERVIEW:** WARNING  
Irritating to eyes, respiratory system and skin. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Prolonged exposure may cause chronic effects. Possible cancer hazard - may cause cancer based on animal data.

**EYES:** Causes severe eye irritation. Causes redness and pain. Eye contact may result in corneal injury. Do not get this material in contact with eyes.

**SKIN:** Substance causes moderate skin irritation. Signs/symptoms may include localized redness, swelling, and itching. Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis. Components of the product may be absorbed into the body through the skin. Do not get this material in contact with skin

**INGESTION:** Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Do not ingest.

**INHALATION:** Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain. Do not breathe dust/fume/gas/mist/vapors/spray.

### SECTION IV – FIRST AID MEASURES

**Eyes:** Wash immediately and continuously with flowing water for at least 30 minutes. Keep eye wide open while rinsing. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.

**Skin (Dermal):** Immediately flush skin with plenty of water. Remove contaminated clothing, including shoes, after flushing has begun. Get medical attention if irritation develops and persists. Thoroughly wash (or discard) clothing and shoes before reuse.

**Ingestion:** Seek medical attention.

**Inhalation:** Remove to fresh air.

## SECTION V – FIRE FIGHTING MEASURES

<b>Flash Point:</b>	> 200.0 °F (> 93.3 °C)
<b>Extinguish Media:</b>	Water fog. Alcohol resistant foam. Dry chemical powder.
<b>Fire &amp; Explosion Hazard:</b>	None known
<b>Special:</b>	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. In the event of fire and/or explosion do not breathe fumes. Cool containers with flooding quantities of water until well after fire is out. ALWAYS stay away from tanks engulfed in flame. Move containers from fire area if you can do so without risk.

## SECTION VI – RELEASE MEASURES

<b>Spill or Leak Procedures:</b>	<p>Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak. Keep out of low areas. Ensure adequate ventilation. Ventilate closed spaces before entering them.</p> <p>Extinguish all flames in the vicinity.</p> <p>Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Clean contaminated surface thoroughly.</p> <p>Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.</p> <p>Never return spills in original containers for re-use. For waste disposal, see section 13 of the MSDS.</p>
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## SECTION VII – HANDLING AND STORAGE

<b>Handling:</b>	<p>Avoid heat, sparks, open flames and other ignition sources. When using, do not eat, drink or smoke. Do not use in areas without adequate ventilation. Wash thoroughly after handling. Wear personal protective equipment. Avoid release to the environment. Do not empty into drains. Do not breathe mist or vapor. Do not get this material in contact with eyes. Do not taste or swallow. Do not get on skin and clothing.</p>
<b>Storage:</b>	<p>Keep away from heat and sources of ignition. Store in a closed container away from incompatible materials. Keep away from food and drink. Store in a well-ventilated place. Keep container tightly closed. Store in accordance with local/regional/national/international regulation.</p>

## SECTION VIII – PERSONAL PROTECTION / EXPOSURE CONTROL

### Respiratory Protection:

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Use a positive-pressure air-supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air-purifying respirators may not provide adequate protection.

### Protective Clothing / Equipment:

Avoid contact with eyes. Wear safety glasses with side shields (or goggles) and a face shield. Wear protective gloves. Wear suitable protective clothing. Normal work clothing (long sleeved shirts and long pants) is recommended. Closed-toe shoes recommended. The suitability for a specific workplace should be discussed with the producers of the protective gloves. The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other.

## SECTION IX – PHYSICAL AND CHEMICAL PROPERTIES

### Appearance / Odor:

Blue liquid/slight amine

### Color:

Yellow to Brown

### Vapor Density (Air=1):

Not Available

### Solubility in H<sub>2</sub>O:

Not Available

### Specific Gravity (H<sub>2</sub>O=1):

1.007

### Density:

8.40 lb/gal

### pH:

9-11 (5% 3:1 IPA:Water)

## SECTION X – STABILITY AND REACTIVITY

### Chemical Stability:

Stable

### Incompatibilities:

Strong Oxidizing Agents. Strong acids.

### Hazardous Decomposition:

Hazardous polymerization does not occur.

## SECTION XI – TOXICOLOGICAL INFORMATION

### Diethanolamine (111-42-2)

**Acute Dermal Toxicity:** LD50: >8180 mg/kg, estimated (rabbit).

**Acute Oral Toxicity:** LD50: > 1.82 g/kg (rat)

## SECTION XII – ECOLOGICAL INFORMATION

Components		Species	Test Results
Diethanolamine (111-42-			
2) Algae	IC50	Algae	7.8 mg/L, 72 Hours
Crustacea	EC50	Daphnia	55 mg/L, 48 Hours
Fish	LC50	Fish	4710 mg/L, 96 Hours
Aquatic			
Fish	LC50	Fathead minnow (Pimephales promelas)	100 mg/l, 96 hours

### SECTION XIII – DISPOPSAL CONSIDERATIONS

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Incinerate the material under controlled conditions in an approved incinerator. Do not allow this material to drain into sewers/water supplies. Dispose in accordance with all applicable regulations. It is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets the criteria for hazardous waste. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner.

### SECTION XIV – TRANSPORTATION INFORMATION

Product is NON-REGULATED

<b>DOT Shipping Name:</b>	Not Regulated
<b>Hazard Class:</b>	N/A
<b>UN Number:</b>	N/A
<b>Packing Group:</b>	N/A

### SECTION XV – REGULATORY INFORMATION

This product has been classed in accordance with the hazard criteria of the Controlled Products Regulations.

<b>SECTION 311/312:</b>	None
<b>SECTION 302 EHS:</b>	None
<b>SECTION 313:</b>	None
<b>CERCLA RQ VALUE:</b>	Diethanolamine: 100

#### Inventory Status

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

### SECTION XVI – OTHER INFORMATION

<b>TSCA Status:</b>	This product has been classed in accordance with the hazard criteria of the Controlled Products Regulations.
<b>NFPA Health:</b>	2
<b>NFPA Flammability:</b>	1
<b>NFPA Reactivity:</b>	0
<b>Disclaimer:</b>	The information and data herein are believed to be accurate and have been compiled from sources believed to be reliable. It is offered for your consideration, investigation and verification. Buyer assumes all risk of use, storage and handling of the product in compliance with applicable Federal, State and local law and regulations.

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