



Material Safety Data Sheet

GSW-HT

HEALTH	*	2
FLAMMABILITY		1
PHYSICAL HAZARD		0
PERSONAL PROTECTION		

1. Product and Company Identification

Material name	GSW-HT
Version #	05
Issue date	October-29-2013
Revision date	October-29-2013
CAS #	Mixture
Product use	Gel Stabilizer
Manufacturer information	Weatherford® 2000 St. James Place Houston, TX 77056 United States Email: productsafety.compliance@weatherford.com Weatherford Information Line: 713-836-4000 Chemtec 800-424-9300
Supplier information	Weatherford® 2000 St. James Place Houston, TX 77056 US
Supplier emergency telephone number(s)	CHEMTREC INT'L +1 703-527-3887

2. Hazards Identification

Emergency overview	WARNING Harmful if swallowed. Contact will irritate or burn eyes. Irritating to skin. May cause irritation of respiratory tract. Prolonged exposure may cause chronic effects. This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.
OSHA regulatory status	This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).
Potential health effects	
Routes of exposure	Inhalation. Skin contact. Eye contact. Ingestion.
Eyes	Contact will irritate or burn eyes. Risk of serious damage to eyes. Do not get this material in contact with eyes.
Skin	Substance causes moderate skin irritation. Do not get this material in contact with skin.
Inhalation	May cause irritation of respiratory tract. Prolonged inhalation may be harmful. Do not breathe dust/fume/gas/mist/vapors/spray.
Ingestion	Harmful if swallowed. Ingestion causes burns of the upper digestive and respiratory tracts. Do not ingest.
Target organs	Eyes. Lungs. Respiratory system. Skin.





Fire fighting equipment/instructions

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.

6. Accidental Release Measures

Personal precautions

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.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not contaminate water.

Methods for containment

Stop leak if you can do so without risk. Prevent entry into waterways, sewer, basements or confined areas. Should not be released into the environment.

Methods for cleaning up

Extinguish all flames in the vicinity.

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.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills in original containers for re-use. For waste disposal, see section 13 of the MSDS.

Clean up in accordance with all applicable regulations.

Other information

7. Handling and Storage

Handling

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.

Storage

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.

8. Exposure Controls / Personal Protection

Occupational exposure limits

US. ACGIH Threshold Limit Values

Components	Type	Value	Form
Diethanolamine (CAS 111-42-2)	TWA	1 mg/m ³	Inhalable fraction and vapor.
Triethanolamine (CAS 102-71-6)	TWA	5 mg/m ³	

Exposure guidelines

US - California OELs: Skin designation

Diethanolamine (CAS 111-42-2) Can be absorbed through the skin.

US ACGIH Threshold Limit Values: Skin designation

Diethanolamine (CAS 111-42-2) Can be absorbed through the skin.





Other data

Density	8.85 - 9.00 lbs/gal
Flammability class	Combustible IIIB

10. Chemical Stability & Reactivity Information

Chemical stability	Material is stable under normal conditions.
Conditions to avoid	Heat, flames and sparks. Avoid temperatures exceeding the flash point.
Incompatible materials	Strong oxidizing agents. acid chlorides acid anhydrides copper Strong acids.
Hazardous decomposition products	Carbon monoxide, carbon dioxide, oxides of nitrogen.

11. Toxicological Information

Toxicological data

Product	Species	Test Results
GSW-HT (Mixture)		
Acute		
<i>Dermal</i>		
LD50	Rabbit	> 1350 mg/kg, estimated
<i>Oral</i>		
LD50	Rat	> 5000 mg/kg, estimated
Components		
Species		
Test Results		
Diethanolamine (111-42-2)		
Acute		
<i>Dermal</i>		
LD50	Rabbit	8180 mg/kg
<i>Oral</i>		
LD50	Rat	1.82 g/kg
Triethanolamine (102-71-6)		
Acute		
<i>Dermal</i>		
LD50	Rabbit	> 20000 mg/kg
<i>Oral</i>		
LD50	Guinea pig	5300 mg/kg
	Rat	8 g/kg
<i>Other</i>		
LD50	Mouse	1450 mg/kg

Chronic effects Hazardous by OSHA criteria. Prolonged or repeated exposure may cause lung injury. Prolonged exposure may cause chronic effects.

Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

ACGIH Carcinogens

Diethanolamine (CAS 111-42-2)	A3 Confirmed animal carcinogen with unknown relevance to humans.
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13. Disposal Considerations

Disposal instructions	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.
Waste from residues / unused products	Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner.
Contaminated packaging	Empty containers should be sent to an approved waste handling site for recycling or disposal.

14. Transport Information

DOT	Not regulated as dangerous goods.
TDG	Not regulated as dangerous goods.
IATA	Not regulated as dangerous goods.
IMDG	Not regulated as dangerous goods.

15. Regulatory Information

US federal regulations	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory List.
Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2))	Not regulated.
DEA Essential Chemical Code Number	Not regulated.
Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))	Not regulated.
DEA Exempt Chemical Mixtures Code Number	Not regulated.
US EPCRA (SARA Title III) Section 313 - Toxic Chemical: De minimis concentration	
Diethanolamine (CAS 111-42-2)	1.0 %
US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance	
Diethanolamine (CAS 111-42-2)	Listed.
TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)	
	Not regulated.
CERCLA (Superfund) reportable quantity	
Diethanolamine: 100.0000	





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Disclaimer

The information in the sheet was written based on the best knowledge and experience currently available.

This data sheet contains changes from the previous version in section(s):

Product and Company Identification: Alternate Trade Names



...A Weatherford Company



Weatherford[®]

Certificate of Analysis

Product Code|GSW-HT
Product Lot #:LD10051210
Customer|
QC Test Date:10/08/2012
Tested By:Robert Dristas
Quantity Shipped:
Date Shipped:
Customer P.O. #

Test Description	Specifications	Test Results
Total Amine(mgKOH/g)	203 - 213	207.2

Lot Characteristics

Appearance	Clear Slight Yellow Liquid
pH	11.04
Specific Gravity (g/ml)	1.092
Density (lb/gal)	9.10

Comments:



QC Supervisor

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