



## SAFETY DATA SHEET

HydroDet

### Section: 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : HydroDet

Other means of identification : None

Recommended use : Drilling Fluids Additive

Restrictions on use : None known

Company : Drillchem Drilling Solutions, LLC  
P.O. Box 132107  
Spring, TX 77393

Emergency telephone number : (800) 424-9300 (24 Hours) CHEMTREC

Issuing date : 08/02/2018

### Section: 2. HAZARDS IDENTIFICATION

#### GHS Classification

Carcinogenicity : Category 2

#### GHS Label element

Hazard pictograms :



Signal Word : Warning

Hazard Statements : Suspected of causing cancer.

Precautionary Statements : **Prevention:** Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection.

**Response:** If exposed or concerned: Get medical advice/attention.

**Storage:** Store locked up.

**Disposal:** Dispose of contents/container in accordance with local/regional/national/international regulations.

Other hazards : None known.

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## Section: 3. COMPOSITION/INFORMATION ON INGREDIENTS

Pure substance/mixture : Mixture

<u>Chemical Name</u>	<u>CAS-No.</u>	<u>Concentration: (%)</u>
Amides, coco, N,N-bis (hydroxyethyl)	68603-42-9	Proprietary
Ethyl Oxide	75-21-8	Proprietary

Other components below reportable levels.

\*Designated that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

## Section: 4. FIRST AID MEASURES

**In case of eye contact** : Rinse with water. Get medical attention if irritation develops and persists.

**In case of skin contact** : Wash off with soap and water. Get medical attention if irritation develops and persists.

**If swallowed** : Rinse mouth. Get medical attention if symptoms occur.

**If inhaled** : Move to fresh air. Call a physician if symptoms develop or persist.

**Protection of first-aiders** : Move to fresh air. Call a physician if symptoms develop or persist.

**Notes to physician** : Treat symptomatically.

**Most important symptoms and effects, both acute and delayed** : Direct contact with eyes may cause temporary irritation. Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

## Section: 5. FIREFIGHTING MEASURES

**Suitable extinguishing media** : Water fog. Foam. Dry chemical powder. Carbon dioxide (CO<sub>2</sub>).

**Unsuitable extinguishing media** : Do not use water jet as an extinguisher, as this will spread the fire.

**Specific hazards during firefighting** : During fire, gases hazardous to health may be formed.

**Hazardous combustion products** : No data available

**Special protective equipment for firefighters** : Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

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**Specific extinguishing methods** : Use standard firefighting procedures and consider the hazards of other involved materials.

## Section: 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures** : Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

**Environmental precautions** : Avoid discharge into drains, water courses or onto the ground.

**Methods and materials for containment and cleaning up** : LARGE SPILLS: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

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

Never return spills to original containers for re-use. Put material in suitable, covered, labeled containers. For waste disposal, see section 13 of the SDS.

## Section: 7. HANDLING AND STORAGE

**Advice on safe handling** : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid prolonged exposure. Should be handled in closed systems, if possible. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

**Conditions for safe storage** : Store locked up. Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

**Suitable material** : No data available

**Unsuitable material** : No data available

## Section: 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Occupational Exposure Limits

#### US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

<u>Residuals</u>	<u>Type</u>	<u>Value</u>
Ethylene Oxide (CAS 75-21-8)	STEL	5 ppm
	TWA	1 ppm

#### US. ACGIH Threshold Limit Values

<u>Residuals</u>	<u>Type</u>	<u>Value</u>
Ethylene Oxide (CAS 75-21-8)	TWA	1 ppm

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### US. NIOSH: Pocket Guide to Chemical Hazards

<u>Residuals</u>	<u>Type</u>	<u>Value</u>
Ethylene Oxide (CAS 75-21-8)	Ceiling	9 mg/m <sup>3</sup> 5 ppm
	TWA	0.18 mg/m <sup>3</sup> 0.1 ppm

### Biological limit values

<u>Residuals</u>	<u>Value</u>	<u>Determinant</u>	<u>Specimen</u>	<u>Sampling Time</u>
Ethylene Oxide (CAS 75-21-8)	5 µg/g	S-(2-hydroxyethyl) mercapturic acid (HEMA)	Creatinine in urine	*
	5000 pmol/g	N-(2-hydroxyethyl)-valine (HEV) Hemoglobin adducts	Hemoglobin adducts	*

\* - For sampling details, please see the source document.

**Engineering Controls** : Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust fans ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

### Personal protective equipment

The following are recommendations for Personnel Protective Equipment (PPE). The employer/user of this product must perform a Hazard Assessment of the workplace according to OSHA regulations 29 CFR 1910.132 to determine the appropriate PPE for use while performing any task involving potential exposure to this product.

**Eye/face protection** : Safety glasses with side shields (or goggles).

### Skin Protection

**Hand protection** : Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.

**Other** : Wear appropriate chemical resistant clothing.

**Respiratory protection** : In case of insufficient ventilation, wear suitable respiratory equipment.

**Thermal hazards** : Wear appropriate thermal protective clothing, when necessary.

**General Hygiene considerations** : Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants

## Section: 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance** : Liquid  
**Colour** : Pink  
**Odour** : Odorless

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<b>Flash point</b>	:	no data available
<b>pH</b>	:	no data available
<b>Odour Threshold</b>	:	no data available
<b>Melting point/freezing point</b>	:	no data available
<b>Initial boiling point and boiling range</b>	:	no data available
<b>Evaporation rate</b>	:	no data available
<b>Flammability (solid, gas)</b>	:	no data available
<b>Upper explosion limit</b>	:	no data available
<b>Lower explosion limit</b>	:	no data available
<b>Vapour pressure</b>	:	0.00001 hPa estimated
<b>Relative vapour density</b>	:	no data available
<b>Relative density</b>	:	no data available
<b>Density</b>	:	0.81 g/cm <sup>3</sup> estimated
<b>Water solubility</b>	:	no data available
<b>Solubility in other solvents</b>	:	no data available
<b>Partition coefficient: n-octanol/water</b>	:	no data available
<b>Percent volatile</b>	:	No data available
<b>Thermal decomposition temperature</b>	:	no data available
<b>Viscosity, dynamic</b>	:	no data available
<b>Viscosity, kinematic</b>	:	no data available
<b>Specific gravity</b>	:	0.81 estimated
<b>VOC</b>	:	0.87 % estimated

### Section: 10. STABILITY AND REACTIVITY

<b>Chemical stability</b>	:	Material is stable under normal conditions.
<b>Possibility of hazardous reactions</b>	:	No dangerous reaction known under conditions of normal use.
<b>Conditions to avoid</b>	:	Contact with incompatible materials
<b>Incompatible materials</b>	:	Strong oxidizing agents.
<b>Hazardous decomposition products</b>	:	No hazardous decomposition products are known.

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## Section: 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

- Eyes** : Direct contact with eyes may cause temporary irritation.
- Skin** : No adverse effects due to skin contact are expected.
- Ingestion** : Expected to be a low ingestion hazard.
- Inhalation** : Prolonged inhalation may be harmful.

**Symptoms related to the physical, chemical and toxicological characteristics** : Headache, nausea, vomiting

### Information on toxicological effects

- Acute oral toxicity** : Not known
- Skin corrosion/irritation** : Prolonged skin contact may cause temporary irritation
- Serious eye damage/eye irritation** : Direct contact with eyes may cause temporary irritation.
- Respiratory or skin sensitization** : Prolonged skin contact may cause temporary irritation.
- Respiratory sensitization** : Not a respiratory sensitizer.
- Skin sensitization** : This product is not expected to cause skin sensitization.
- Germ cell mutagenicity** : No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
- Carcinogenicity** : Suspected of causing cancer.

#### IARC Monographs. Overall Evaluation of Carcinogenicity

Amides, coco, N,N-bis (hydroxyethyl) (CAS 68603-42-9) 2B Possibly carcinogenic to humans.  
Ethylene Oxides (CAS 75-21-8) 1 Carcinogenic to humans

#### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Ethylene Oxide (CAS 75-21-8) Cancer

#### US. National Toxicology Program (NTP) Report on Carcinogens

Amides, coco, N,N-bis (hydroxyethyl) (CAS 68603-42-9) Possibly carcinogenic to humans.  
Ethylene Oxide (CAS 75-21-8) Known to be human carcinogen

- Reproductive Toxicity** : This product is not expected to cause reproductive or developmental effects.
- Specific Target Organ Toxicity - Single Exposure** : Not classified

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**Specific Target Organ Toxicity - Repeated Exposure** : Not classified

**Aspiration toxicity** : Not an aspiration hazard.

## Section: 12. ECOLOGICAL INFORMATION

**Ecotoxicity** : The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

**Persistence and degradability** : No data available.

**Mobility in soil** : No data available.

**Other adverse effects** : The product contains volatile organic compounds which have a photochemical ozone creation potential.

## Section: 13. DISPOSAL CONSIDERATIONS

**Disposal methods** : Dispose of contents/container in accordance with local/regional/national/international regulations.

**Contaminated packaging** : Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

## Section: 14. TRANSPORT INFORMATION

### DOT (Department of Transportation)

**Proper Shipping Name:** Not regulated for transport

### Road and Rail (ADR/RID)

**Proper Shipping Name:** Not regulated for transport

### AIR (ICAO/IATA)

**Shipping Name:** Not regulated for transport

### Vessel (IMO/IMDG)

**Shipping Name:** Not regulated for transport

### Canada Transport of Dangerous Goods

**Shipping Name:** Not regulated for transport

## Section: 15. REGULATORY INFORMATION

**US Federal Regulations** This product is not know to be a "Hazardous Chemical" as defined by OSHA Hazard Communication Standard, 29 CFR 1910.1200.  
One or more components are not listed n TSCA.

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**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

Not regulated

**CERCLA Hazardous Substances List (40 CFR 302.4)**

Not listed

**SARA 304 Emergency release notification**

Not Regulated

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)**

Not Regulated.

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**SARA 302 Extremely hazardous substances**

Not listed.

**SARA 311/312 Hazardous chemical**

No

**SARA 313 (TRI Reporting)**

Not regulated.

**Other federal regulations**

**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

Not regulated.

**Safe Drinking Water Act (SDWA)**

Not listed.

**US state regulations**

**California Proposition 65**

**WARNING:** This product can expose you to chemicals including Ethylen Oxide and Amides, coco, N,N-bis (hydroxyethyl) , which are known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

**US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (A))**

Amides, coco, N,N-bis (hydroxyethyl) (CAS 8603-42-9)  
Ethylene Oxide (CAS 75-21-8)

**US. California Proposition 65**

WARNING: This product contains a chemical known to the State of California to cause cancer.

**US- California Proposition 65 – CRT: Listed date/Carcinogenic substance**

Amides, coco, N,N-bis (hydroxyethyl) (CAS 8603-42-9)	Listed: June 22, 2012
Ethylene Oxide (CAS 75-21-8)	Listed: July 1, 1987

**TSCA Status:** All components listed or exempt.

**Clean Air Act**

**40 CFR Part 68---Risk Management for Chemical Accidental Release Prevention:** Not applicable

**Occupational Safety and Health Administration (OSHA)**

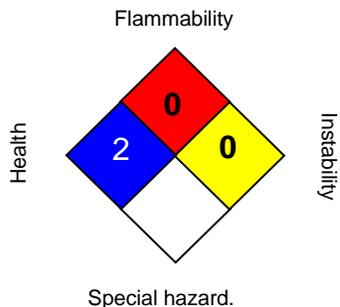
**29 CFR 1910.119---Process Safety Management of Highly Hazardous Chemicals:** Not applicable

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## Section: 16. OTHER INFORMATION

### NFPA:



### HMIS III:

<b>HEALTH</b>	<b>0</b>
<b>FLAMMABILITY</b>	<b>0</b>
<b>PHYSICAL HAZARD</b>	<b>0</b>

0 = not significant, 1 =Slight,  
2 = Moderate, 3 = High  
4 = Extreme, \* = Chronic

Revision Date : 08/02/2018  
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Revised Information : Section 3

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.