



## 1. DESCRIPTION

**Trade Name:** GLYCO-DRILL HC

**Chemical CLASS:** Organic Compounds

**Chemical Name:** Drilling Glycol, Glycol (High-Temperature Cloud point)

**Application:** Shale Inhibitor

**Supplier:** TEAM Chemicals

**Telephone:** +44 (0)207 408 7700 - +98 912 3717539

**Address:** No. 43, Souri St., 43 Ashrafi Esfahani Expressway

## 2. COMPOSITION / INFORMATION ON INGREDIENTS

### Ingredients

Chemical name	CAS-No	Content
Glycol	-	60 - 100%

## 3. HAZARD IDENTIFICATION

### EMERGENCY OVERVIEW:

#### Potential Acute Health Effects:

Eye contact can result in irritation.

#### Potential Chronic Health Effects:

CARCINOGENIC EFFECTS: Not available.

MUTAGENIC EFFECTS: Not available.

TERATOGENIC EFFECTS: Not available.

DEVELOPMENTAL TOXICITY: Not available.

Repeated or prolonged exposure is not known to aggravate medical condition

**Irritant** YES

**Flammable** NO

**Carcinogenic** NO

**Oxidant** NO

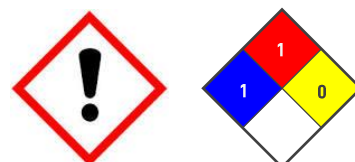
**Explosive** NO

**Environmental Hazard** NO

**Corrosive** NO

**(Risk-Phrases)** -

**(Safety-Phrases)** -





## 4. FIRST AID MEASURES

**Eye Contact:** Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes and get medical attention

**Skin Contact:** Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops.

**Inhalation:** Move the exposed person to fresh air at once. If respiratory problems, artificial respiration/oxygen. Get medical attention.

**Ingestion:** DO NOT induce vomiting if swallowed. Danger of aspiration and development of chemical Pneumonia. Get medical attention

## 5. FIRE FIGHTING MEASURES

**EXTINGUISHING MEDIA** Water spray, dry powder or carbon dioxide. and Alcohol resistant foam.

**FIRE FIGHTING** Cool containers exposed to flames with water until well after the fire is out

**FIRE/EXPLOSION HAZARD** Fire or high temperatures create: Oxides of: Carbon dioxide (CO<sub>2</sub>). and Carbon monoxide (CO)

**PERSONAL PROTECTION** Self contained breathing apparatus and full protective clothing must be worn in case of fire.

## 6. ACCIDENTAL RELEASE MEASURES

### Small Spill:

Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container.

### Large Spill:

Absorb with an inert material and put the spilled material in an appropriate waste disposal. Dike far ahead of larger spills for later disposal. Absorb spillage with suitable absorbent material. Shovel into dry containers. Cover and move the containers. Flush the area with water.

## 7. HANDLING AND STORAGE

**HANDLING Precautions:** Do not use contact lenses. Avoid contact with eyes. Avoid inhalation of vapors. Provide good ventilation.

### Storage Precautions:

Store in tightly closed original container in a cool, dry well-ventilated place.



## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Chemical Name	TWA	STEL	Peak
Sodium Hydroxide	-	-	2mg/m <sup>3</sup>

**PERSONAL PROTECTION** Splash goggles. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

**RESPIRATOR** No specific recommendation made, but respiratory protection may still be required under exceptional circumstances when excessive air contamination exists.

**EYE** Chemical goggles. Face shield may be required for supplementary but never for primary protection of eyes.

**HAND/FEET** Chemical resistant gloves required for prolonged or repeated contact. Use protective gloves made of: Polyvinyl chloride (PVC). Butyl rubber. and Nitrile.

**ENGINEERING CONTROLS** Provide adequate general and local exhaust ventilation.

## 9. PHYSICAL & CHEMICAL PROPERTIES

**Physical state and appearance:** Clear Liquid

**Odor:** No specific odor

**pH:** 5.5-7

**Boiling Point:** NA

**Melting/Freezing Point:** 4°C - 6 °C

**Specific Gravity:** 1.05-1.2

**Solubility:** Soluble in cold water, hot water. Slightly soluble in aliphatic hydrocarbons.

## 10. STABILITY & REACTIVITY

**Chemical Stability:** Stable

**Conditions to Avoid:** Incompatible materials (strong oxidizers), excess heat

**Materials to Avoid:** Reactive with acids, alkalis and oxidizing agents

**Special Remarks on Reactivity:** Slightly Hygroscopic

**Special Remarks on Corrosivity:** Non-corrosive in presence of glass.



## 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity (LD50): 26800 mg/kg [Rabbit]. Acute dermal toxicity (LD50): >20000 mg/kg [Rabbit]. Acute toxicity of the vapor (LC50): >13 8 hours [Rat].

**Eye Contact** Irritating

**Skin Contact** Prolonged contact may cause dryness of the skin. May be absorbed through the skin. Prolonged contact may cause redness, irritation and dry skin. Liquid may irritate skin

**Inhalation** Gas or vapor in high concentrations may irritate respiratory system.

**Ingestion** Gastrointestinal symptoms, including upset stomach. Nausea, vomiting. Central nervous system depression. Danger of aspiration and development of chemical pneumonia.

**chronic effects** Irritating to eyes. Repeated exposure may cause chronic eye irritation

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity:

Ecotoxicity in water (LC50): >5000 mg/l 24 hours [Goldfish].

## 13. DISPOSAL CONSIDERATION

**DISPOSAL METHODS:** Waste must be disposed of in accordance with federal, state and local environmental control regulations.

## 14. TRANSPORT INFORMATION

**DOT Classification:** Not regulated.

## 15. REGULATORY INFORMATION

**Classification:** Based on available information, it is a NONHAZARDOUS CHEMICAL.

**Poisons Schedule (SUSMP):** None allocated.

This material is listed on the international standard such as OHSAS 18001:2007.



Tiam Earth Advanced Materials

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## Material Safety Datasheet

# GLYCOL-DRILL HC



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## 16. ADDITIONAL INFORMATION

### Reason(s) for Issue:

- 3 Yearly Revised Primary MSDS
- Update in Toxicological Information
- Update in Ecological Information

This MSDS summaries to our best knowledge at the date of issue, the chemical health and safety hazards of the material and general guidance on how to safely handle the material in the workplace. TEAM Chemicals cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, assess and control the risks arising from its use of the material.



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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. TEAM Chemicals and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product.

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