



# MATERIAL SAFETY DATA SHEET

## 1. Product and Company Identification

**Material name** HYDRAUL-EZ®  
**Version #** 07  
**Revision date** 27-August-2012  
**CAS #** Mixture  
**Manufacturer information** CETCO  
Drilling Products Group  
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Hoffman Estates, IL 60192 United States  
safetydata@amcol.com  
<http://www.cetco.com/>  
General Information (800) 527-9948  
CHEMTREC® (800) 424-9300

## 2. Hazards Identification

**Emergency overview** Material can be slippery when wet

**Potential health effects**

**Routes of exposure** Inhalation.

**Eyes** Dust or powder may irritate eye tissue.

**Skin** Non-irritating to the skin.

**Inhalation** Repeated or prolonged inhalation may cause toxic effects. For additional information on inhalation hazards, see Section 11 of this safety data sheet.

**Ingestion** No significant adverse effects are expected upon ingestion of the product.

**Target organs** Lungs.

**Chronic effects** This product has the potential for generation of respirable dust during handling and use. Dust may contain respirable crystalline silica. Overexposure to dust may result in pneumoconiosis, a respiratory disease caused by inhalation of mineral dust, which can lead to fibrotic changes to the lung tissue, or silicosis, a respiratory disease caused by inhalation of silica dust, which can lead to inflammation and fibrosis of the lung tissue. Occupational exposure to nuisance dust (total and respirable) and respirable crystalline silica should be monitored and controlled.

## 3. Composition / Information on Ingredients

The manufacturer lists no ingredients as hazardous according to OSHA 29 CFR 1910.1200.

**Composition comments** This product contains naturally occurring crystalline silica (not listed in Annex I of Directive 67/548/EEC) in quantities less than 6%. Occupational Exposure Limits for constituents are listed in Section 8.

## 4. First Aid Measures

**First aid procedures**

**Eye contact** Flush eyes immediately with large amounts of water. Get medical attention if irritation develops or persists.

**Skin contact** No special measures required. Get medical attention if irritation develops or persists.

**Inhalation** If symptoms are experienced, remove source of contamination or move victim to fresh air. If the affected person is not breathing, apply artificial respiration. If breathing is difficult, give oxygen. Call a physician if symptoms develop or persist.

**Ingestion** No special measures required. If ingestion of a large amount does occur, seek medical attention.

**Notes to physician** Provide general supportive measures and treat symptomatically.

## 5. Fire Fighting Measures

**Flammable properties** None known.

**Extinguishing media**

**Suitable extinguishing media** Use any media suitable for the surrounding fires. Dry chemical, CO<sub>2</sub>, water spray or regular foam.

## Protection of firefighters

**Protective equipment and precautions for firefighters** As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**Fire fighting equipment/instructions** Material can be slippery when wet.

**Hazardous combustion products** None known.

## 6. Accidental Release Measures

**Personal precautions** Material can be slippery when wet. Wear a dust mask if dust is generated above exposure limits.

**Environmental precautions** No special environmental precautions required.

**Methods for containment** None necessary.

**Methods for cleaning up** Avoid the generation of dusts during clean-up. Collect dust or particulates using a vacuum cleaner with a HEPA filter. Reduce airborne dust and prevent scattering by moistening with water.

## 7. Handling and Storage

**Handling** Keep formation of airborne dusts to a minimum. Provide appropriate exhaust ventilation at places where dust is formed. In case of insufficient ventilation, wear suitable respiratory equipment.

**Storage** Guard against dust accumulation of this material. No special storage conditions required. No special restrictions on storage with other products.

## 8. Exposure Controls / Personal Protection

### Occupational exposure limits

#### US. ACGIH Threshold Limit Values

Constituents	Type	Value	Form
INERT OR NUISANCE DUSTS (SEQ250)	TWA	3 mg/m <sup>3</sup>	Respirable particles.
QUARTZ (14808-60-7)	TWA	10 mg/m <sup>3</sup> 0.025 mg/m <sup>3</sup>	Inhalable particles. Respirable fraction.

#### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Constituents	Type	Value	Form
INERT OR NUISANCE DUSTS (SEQ250)	PEL	5 mg/m <sup>3</sup>	Respirable fraction.
		15 mg/m <sup>3</sup>	Total dust.

#### US. OSHA Table Z-3 (29 CFR 1910.1000)

Constituents	Type	Value	Form
INERT OR NUISANCE DUSTS (SEQ250)	TWA	5 mg/m <sup>3</sup>	Respirable fraction.
		15 mg/m <sup>3</sup>	Total dust.
		50 mppcf	Total dust.
		15 mppcf	Respirable fraction.
QUARTZ (14808-60-7)	TWA	0.3 mg/m <sup>3</sup>	Total dust.
		0.1 mg/m <sup>3</sup>	Respirable.
		2.4 mppcf	Respirable.

**Exposure guidelines** Occupational exposure to nuisance dust (total and respirable) and respirable crystalline silica should be monitored and controlled.

**Engineering controls** If material is ground, cut, or used in any operation which may generate dusts, use appropriate local exhaust ventilation to keep exposures below the recommended exposure limits. If engineering measures are not sufficient to maintain concentrations of dust particulates below the OEL, suitable respiratory protection must be worn.

### Personal protective equipment

**Eye / face protection** Wear dust goggles.

**Skin protection** No special protective equipment required.

**Respiratory protection** Use a particulate filter respirator for particulate concentrations exceeding the Occupational Exposure Limit.

**General hygiene considerations** Eye wash fountain is recommended. Use good industrial hygiene practices in handling this material.

## 9. Physical & Chemical Properties

<b>Appearance</b>	Not available.
<b>Physical state</b>	Solid.
<b>Form</b>	Granular. Powder. Pellets. or Chips.
<b>Color</b>	Various.
<b>Odor</b>	None.
<b>Odor threshold</b>	Not available.
<b>pH</b>	Not available.
<b>Vapor pressure</b>	0.000036 hPa estimated
<b>Vapor density</b>	Not available.
<b>Boiling point</b>	Not available.
<b>Melting point/Freezing point</b>	Not available.
<b>Solubility (water)</b>	Negligible
<b>Specific gravity</b>	2.6 2.529953054 estimated
<b>Relative density</b>	Not available.
<b>Flash point</b>	Non-flammable
<b>Flammability limits in air, upper, % by volume</b>	Non-explosive
<b>Flammability limits in air, lower, % by volume</b>	Non-explosive
<b>Auto-ignition temperature</b>	Not available.
<b>Viscosity</b>	45 - 50
<b>Percent volatile</b>	0 % estimated
<b>Bulk density</b>	54 lb/ft <sup>3</sup>
<b>Other data</b>	
<b>Density</b>	2.53 g/cm <sup>3</sup> estimated

## 10. Chemical Stability & Reactivity Information

<b>Chemical stability</b>	Stable at normal conditions.
<b>Conditions to avoid</b>	None known.
<b>Incompatible materials</b>	None known.
<b>Hazardous decomposition products</b>	None known.
<b>Possibility of hazardous reactions</b>	Will not occur.

## 11. Toxicological Information

### Toxicological data

<b>Constituents</b>	<b>Species</b>	<b>Test Results</b>
QUARTZ (14808-60-7)		
<b>Acute</b>		
<i>Oral</i>		
LD50	Rat	500 mg/kg

## Chronic effects

In 1997, IARC (the International Agency for Research on Cancer) concluded that crystalline silica inhaled from occupational sources can cause lung cancer in humans. However in making the overall evaluation, IARC noted that "carcinogenicity was not detected in all industrial circumstances studied. Carcinogenicity may be dependent on inherent characteristics of the crystalline silica or on external factors affecting its biological activity or distribution of its polymorphs." (IARC Monographs on the evaluation of the carcinogenic risks of chemicals to humans, Silica, silicates dust and organic fibres, 1997, Vol. 68, IARC, Lyon, France.)

In June 2003, SCOEL (the EU Scientific Committee on Occupational Exposure Limits) concluded that the main effect in humans of the inhalation of respirable crystalline silica dust is silicosis. "There is sufficient information to conclude that the relative risk of lung cancer is increased in persons with silicosis (and, apparently, not in employees without silicosis exposed to silica dust in quarries and in the ceramic industry). Therefore, preventing the onset of silicosis will also reduce the cancer risk..." (SCOEL SUM Doc 94-final, June 2003)

According to the current state of the art, worker protection against silicosis can be consistently assured by respecting the existing regulatory occupational exposure limits. Occupational exposure to nuisance dust (total and respirable) and respirable crystalline silica should be monitored and controlled.

## 12. Ecological Information

### Ecotoxicity

This material is not expected to be harmful to aquatic life.

### Environmental effects

Based on the physical properties of this product, significant environmental persistence and bioaccumulation would not be expected.

### Persistence and degradability

Not available.

## 13. Disposal Considerations

### Disposal instructions

Dispose in accordance with all applicable regulations. Material should be recycled if possible.

## 14. Transport Information

### DOT

Not regulated as dangerous goods.

### DOT

### Packages less than 83 lbs

Not regulated as dangerous goods.

### IATA

Not regulated as dangerous goods.

### IMDG

Not regulated as dangerous goods.

## 15. Regulatory Information

### US federal regulations

OSHA Process Safety Standard: This material is not known to be hazardous by the OSHA Highly Hazardous Process Safety Standard, 29 CFR 1910.119.

#### 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.

### CERCLA (Superfund) reportable quantity

None

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

#### Hazard categories

Immediate Hazard - No  
Delayed Hazard - Yes  
Fire Hazard - No  
Pressure Hazard - No  
Reactivity Hazard - No

**Section 302 extremely hazardous substance** No  
**Section 311 hazardous chemical** No

**Food and Drug Administration (FDA)** Total food additive  
Indirect food additive  
GRAS food additive

**Inventory status**

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

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

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

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

QUARTZ (CAS 14808-60-7)

Listed: October 1, 1988

**16. Other Information**

**Further information** This safety datasheet only contains information relating to safety and does not replace any product information or product specification.

**HMIS® ratings** Health: 1\*  
Flammability: 0  
Physical hazard: 0

**NFPA ratings** Health: 1  
Flammability: 0  
Instability: 0

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**This data sheet contains changes from the previous version in section(s):** Composition / Information on Ingredients: Disclosure Overrides  
Composition / Information on Ingredients: Composition comments