



# MATERIAL SAFETY DATA SHEET

## 1. Product and Company Identification

**Material name** HYDRO-PAC®  
**Version #** 08  
**Revision date** 09-February-2009  
**Chemical description** Powder  
**CAS #** Mixture  
**Manufacturer** CETCO  
Construction Drilling Products  
2870 Forbs Avenue  
Hoffman Estates, IL 60192 US  
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<http://www.constructiondrilling.com/>  
General Information (800) 527-9948  
CHEMTREC® (800) 424-9300

## 2. Hazards Identification

**Emergency overview** Material can be slippery when wet. Product may form explosive dust/air mixtures if high concentration of product dust is suspended in air.

**OSHA regulatory status** While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this MSDS contains valuable information critical to the safe handling and proper use of the product. This MSDS should be retained and available for employees and other users of this product.

**Potential health effects**

**Routes of exposure** Eye contact Inhalation.

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

**Skin** Substance may cause slight skin irritation. No components in this product are known to be absorbed through the skin.

**Inhalation** Inhalation of dusts may cause respiratory irritation.

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

## 3. Composition / Information on Ingredients

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

## 4. First Aid Measures

**First aid procedures**

**Eye contact** Immediately flush eyes with plenty of water for at least 20 minutes. Get medical attention if irritation develops or persists.

**Skin contact** Wash affected area with mild soap and water. Get medical attention if irritation develops or persists.

**Inhalation** If exposed to excessive levels of dusts or fumes, remove to fresh air and get medical attention if cough or other symptoms develop.

**Ingestion** No special measures required

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

**General advice** If you feel unwell, seek medical advice (show the label where possible).

## 5. Fire Fighting Measures

**Flammable properties** Dust concentrations greater than 0.03 oz/ft<sup>3</sup> may ignite at 590° C or when exposed to ignition source.

**Extinguishing media**

**Suitable extinguishing media** Dry chemical, CO<sub>2</sub>, water spray or regular foam.

## Protection of firefighters

### Protective equipment and precautions for firefighters

Material can be slippery when wet. Move containers from fire area if you can do it without risk.

## 6. Accidental Release Measures

### Personal precautions

Material can be slippery when wet. Ensure adequate ventilation. Avoid inhalation of dust from the spilled material. Wear a dust mask if dust is generated above exposure limits. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

### Environmental precautions

Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so.

### Methods for containment

Stop leak if you can do so without risk.

### Methods for cleaning up

Sweep up or gather material and place in appropriate container for disposal. Avoid the generation of dusts during clean-up.

## 7. Handling and Storage

### Handling

Material can be slippery when wet. Keep formation of airborne dusts to a minimum. Take measures to prevent the build up of electrostatic charge. Provide appropriate exhaust ventilation at places where dust is formed. Refer to NFPA Pamphlet No. 654, "Prevention of Fire and Dust Explosions in the Chemical, Dye, Pharmaceutical, and Plastics Industries."

### Storage

Keep containers tightly closed in a dry, cool and well-ventilated place. Guard against dust accumulation of this material. Keep out of the reach of children.

## 8. Exposure Controls / Personal Protection

### Occupational exposure limits

#### ACGIH

##### Constituents

Constituents	Type	Value	Form
INERT OR NUISANCE DUST (SEQ250)	TWA	3 mg/m <sup>3</sup>	Respirable particles.
		10 mg/m <sup>3</sup>	Inhalable particles.

#### U.S. - OSHA

##### Constituents

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

### Engineering controls

Ensure adequate ventilation, especially in confined areas. 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 safety glasses with side shields.

#### Skin protection

Normal work clothing (long sleeved shirts and long pants) is recommended.

#### Respiratory protection

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

#### General hygiene considerations

Use good industrial hygiene practices in handling this material. Wash hands before breaks and immediately after handling the product.

## 9. Physical & Chemical Properties

### Appearance

Powder.

### Color

Off-white.

### Odor

Flour-like

### Odor threshold

Not available.

### Physical state

Solid.

<b>Form</b>	Not available.
<b>pH</b>	5.5 - 8.5
<b>Melting point</b>	Not available.
<b>Freezing point</b>	Not available.
<b>Boiling point</b>	Not available.
<b>Flash point</b>	> 199.4 °F (> 93 °C)
<b>Evaporation rate</b>	Not available.
<b>Flammability</b>	Not available.
<b>Flammability limits in air, upper, % by volume</b>	Not available.
<b>Flammability limits in air, lower, % by volume</b>	Not available.
<b>Vapor pressure</b>	Not available.
<b>Vapor density</b>	Not available.
<b>Specific gravity</b>	0.0013 estimated
<b>Relative density</b>	Not available.
<b>Solubility (water)</b>	Soluble
<b>Partition coefficient (n-octanol/water)</b>	Not available.
<b>Auto-ignition temperature</b>	Not available.
<b>Decomposition temperature</b>	Not available.
<b>VOC</b>	0 % estimated
<b>Percent volatile</b>	0 % estimated

## 10. Chemical Stability & Reactivity Information

<b>Chemical stability</b>	Stable at normal conditions.
<b>Conditions to avoid</b>	Heat, flames and sparks. Dust cloud ignition temperature 590°C.
<b>Incompatible materials</b>	Strong oxidizing agents.
<b>Hazardous decomposition products</b>	Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.
<b>Possibility of hazardous reactions</b>	Will not occur.

## 11. Toxicological Information

### Toxicological data

#### Product

HYDRO-PAC® (Mixture)

#### Test Results

Acute Dermal LD50 Rat: 99999 mg/kg  
 Acute Inhalation LC50 Rat: 99999 mg/l/4h  
 Acute Inhalation LC50 Rat: 651 mg/l estimated  
 Acute Oral LD50 Hamster: 11332 mg/kg estimated  
 Acute Oral LD50 Mouse: 15166 mg/kg estimated  
 Acute Oral LD50 Rabbit: 12438 mg/kg estimated  
 Acute Oral LD50 Rat: 12520 mg/kg estimated

\* Estimates for product may be based on additional component data not shown.

<b>Acute effects</b>	Acute LC50: 651 mg/l, Rat, Inhalation, estimated
<b>Carcinogenicity</b>	Not listed by ACGIH, IARC, NIOSH, NTP OR OSHA.
<b>Mutagenicity</b>	No data available for this product.
<b>Teratogenicity</b>	No data available for this product.
<b>Further information</b>	This product has no known adverse effect on human health.

## 12. Ecological Information

### Ecotoxicological data

#### Product

HYDRO-PAC® (Mixture)

#### Test Results

LC50 Fish: 102 mg/l 96.00 Hours estimated

\* Estimates for product may be based on additional component data not shown.

**Ecotoxicity** This product is not expected to produce significant ecotoxicity upon exposure to aquatic organisms and aquatic systems. No data is available on the product itself.

**Environmental effects** No data available for this product.

**Persistence and degradability** Not available.

## 13. Disposal Considerations

**Disposal instructions** Dispose in accordance with all applicable regulations.

## 14. Transport Information

### DOT

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 not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

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

### CERCLA (Superfund) reportable quantity

None

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

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

**Section 302 extremely hazardous substance** No

**Section 311 hazardous chemical** Yes

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

### Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of New and Existing Chemicals (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No

Country(s) or region	Inventory name	On inventory (yes/no)*
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No

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

## 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		/	0
FLAMMABILITY			2
PHYSICAL HAZARD			0
PERSONAL PROTECTION			

### NFPA ratings

Health: 0  
 Flammability: 2  
 Instability: 0

### Disclaimer

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 manufacturer expressly does not make any representations, warranties, or guarantees as to its accuracy, reliability or completeness nor assumes any liability, for its use. It is the user's responsibility to verify the suitability and completeness of such information for each particular use.

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### Issue date

09-February-2009

### Other information

CETCO is an AMCOL International company.