



# MATERIAL SAFETY DATA SHEET

## 1. Product and Company Identification

**Material name** HYDRO-PAC®  
**Version #** 09  
**Revision date** 08-April-2011  
**CAS #** Mixture  
**Manufacturer information** CETCO  
Drilling Products Group  
2870 Forbs Avenue  
Hoffman Estates, IL 60192 US  
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. 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** 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. 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**

**US. ACGIH Threshold Limit Values**

Constituents	Type	Value	Form
INERT OR NUISANCE DUSTS (SEQ250)	TWA	3.0000 mg/m3	Respirable particles.
		10.0000 mg/m3	Inhalable particles.

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

Constituents	Type	Value	Form
INERT OR NUISANCE DUSTS (SEQ250)	TWA	5.0000 mg/m3	Respirable fraction.
		15.0000 mg/m3	Total dust.
		5.0000 mg/m3	Respirable fraction.
		15.0000 mg/m3	Total dust.
		50.0000 mppcf	Total dust.
		15.0000 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.

**Physical state**

Solid.

**Form**

Not available.

**Color**

Off-white.

**Odor**

Flour-like

**Odor threshold**

Not available.

**pH**

5.5 - 8.5

<b>Vapor pressure</b>	Not available.
<b>Vapor density</b>	Not available.
<b>Boiling point</b>	Not available.
<b>Melting point/Freezing point</b>	Not available.
<b>Solubility (water)</b>	Not available.
<b>Specific gravity</b>	Not available.
<b>Relative density</b>	Not available.
<b>Flash point</b>	> 199.4 °F (> 93 °C) 199.4 °F (92.9915 °C) estimated
<b>Flammability limits in air, upper, % by volume</b>	Not available.
<b>Flammability limits in air, lower, % by volume</b>	Not available.
<b>Auto-ignition temperature</b>	Not available.
<b>VOC</b>	0 % estimated
<b>Percent volatile</b>	0 % estimated
<b>Other data</b>	
<b>Flammability class</b>	Combustible IIIA estimated
<b>Flash point class</b>	Combustible IIIA

## 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

<b>Product</b>	<b>Test Results</b>
HYDRO-PAC® (Mixture)	Acute Dermal LD50 Rat: 99999 mg/kg Acute Inhalation LC50 Rat: 99999 mg/l/4h Acute Inhalation LC50 Rat: 500.5 mg/l estimated Acute Oral LD50 Hamster: 11332.1 mg/kg estimated Acute Oral LD50 Mouse: 15127 mg/kg estimated Acute Oral LD50 Rabbit: 12438.5 mg/kg estimated Acute Oral LD50 Rat: 12501.2 mg/kg estimated Acute Other LD50 Mouse: 70070.1 mg/kg 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

<b>Product</b>	<b>Test Results</b>
HYDRO-PAC® (Mixture)	LC50 Fish: 87.9527 mg/l 96.00 hours estimated
<b>Ecotoxicity</b>	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.
<b>Environmental effects</b>	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

**Basic shipping requirements:**

UN number UN3077  
Proper shipping name Environmentally hazardous substances, solid, n.o.s.  
Hazard class 9  
Packing group III  
Environmental hazards

Marine pollutant Yes

**Additional information:**

Special provisions 8, 146, B54, IB8, IP3, N20, T1, TP33  
Packaging exceptions 155  
Packaging non bulk 213  
Packaging bulk 240

#### DOT

##### Packages less than 83 lbs

**Basic shipping requirements:**

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**Additional information:**

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Packaging non bulk 213  
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DOT



DOT

Packages less than 83 lbs

### 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.

**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 - No  
 Fire Hazard - Yes  
 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  
 Direct food additive  
 Indirect 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	Yes
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)

**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

**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**

08-April-2011

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

Product and Company Identification: Product and Company Identification  
Composition / Information on Ingredients: Disclosure Overrides