

MATERIAL SAFETY DATA SHEET

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200. Standard must be consulted for specific requirements.

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PRODUCT NAME: REL-PACTM

Section I MANUFACTURER'S INFORMATION

MANUFACTURER'S NAME & ADDRESS: Date Prepared: January 1, 2007

Telephone Number: 847-392-5800 Fax 847.506.6150 CETCO – Drilling Products Group 1500 West Shure Drive **EMERGENCY CONTACT: CHEMTREC 800-424-9300**

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Section II HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

% **Hazardous Components** Other Limits (Specific Chemical Identity: Common Name(s)) **OSHA PEL ACGIH TLV** Recommended (optional)

Nuisance Dust

 3mg/m^3 Respirable Fraction 5mg/m^3 **Total Dust** 15mg/m^3 10mg/m^3

PRODUCT IDENTIFICATION

Chemical Name: Polyanionic Cellulose Chemical Family: Cellulosic Polymer

NFPA/HMIS: Health - 1, Fire - 1, Reactivity - 0, Specific Hazard - See Section VI

DOT Class: Not Regulated

Section III PHYSICAL/CHEMICAL CHARACTERISTICS

- 1.55 **Boiling Point** - Not Applicable Specific Gravity ($H_2O = 1$)

Vapor Pressure (mm Hg.) - Not Applicable Melting Point - Not Available Vapor Density (AIR = 1) - Not Applicable Evaporation Rate (Butyl Acetate = 1) - Not Applicable

Solubility in Water - Complete

- White to yellow powder, no odor. Appearance and Odor

Section IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used) - 350°F (Open cup)

Flammable Limits - Not Determined LEL- - Not Determined UEL- - Not Determined

- Water spray, carbon dioxide, dry chemical extinguishers. Extinguishing Media

Special Fire Fighting Procedures - None Known.

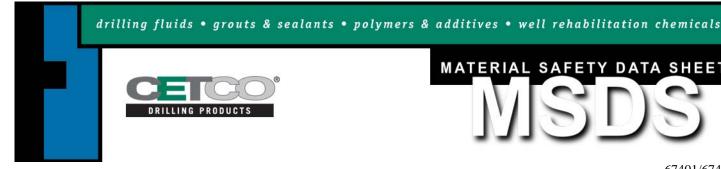
Unusual Fire/Explosion Hazards - Product dust may form an explosive mixture with the air. Avoid dust producing conditions.

Section V REACTIVITY DATA

Stable Conditions to Avoid - None Known Stability

Incompatibility (Materials to Avoid) - None Known Hazardous Decomposition or By-products - None Known

Hazardous Polymerization Will Not Occur -Conditions to Avoid - Conditions that produce dust.



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Section VI HEALTH HAZARD DATA

Skin? No Route(s) of Entry: Inhalation? Yes Ingestion? No

Health Hazards (Acute and Chronic):

The toxicity and hazards under normal conditions of application appeared to have low effects in animal experiments. Exposure to dust in manufacturing operations over 30 years has not shown adverse effects. Inhalation may result in dry, irritated nasal passages.

Carcinogenicity: NTP? No IARC Monographs? No OSHA Regulated? No

Teratogenicity: No Mutagenicity: No Signs and Symptoms of Exposure: None Known.

Medical Conditions Generally Aggravated by Exposure: Emphysema, other lung diseases, asthma.

Emergency & First Aid Procedures: Not Applicable

PRECAUTIONS FOR SAFE HANDLING AND USE **Section VII**

Steps to be Taken in Case Material is Released or Spilled: Sweep up and flush area with water. Spilled product on wet floors can be very slippery.

Waste Disposal Method: Send to Sanitary Landfill or incinerate. Dispose of in accordance with federal, state and local regulations.

During processing the dust of the dry product can be inconvenient. Precautions to Be Taken in Handling and Storing:

Other Precautions: Slippery when wet. Although not dangerous, the use of a simple dust mask is recommended.

Section VIII CONTROL MEASURES

Respiratory Protection (Specify Type) - Dust Respirator (NIOSH/MSHA #TC-21C-132) may be desirable when dumping bags.

Ventilation Special - None - Local Exhaust - As appropriate

- Mechanical (General) - As appropriate Other - None

Protective Gloves - Not Required

Eve Protection - Not Required

Other Protective Clothing or Equipment - None Known.

Work/Hygienic Practices - Use good housekeeping practices.

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