

PRODUCT NAME: Drill-Sorb

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Safety Data Sheet No: 5007EC

1. Identification of the Substances and Details of the Company

Product Description: Super Absorbent Polymer

Date Prepared: January 2007

Company Name and Address:

Date Reviewed: July 2013

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2. Hazards Identification

Description: White, granular solid with little or no odour.

Statement of Hazards: This product contains no hazardous ingredients.

Precautionary Measures: Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. Avoid prolonged or repeated inhalation of dust or skin contact. Slip hazard when wet.

Primary Route(s) of Entry: Inhalation

Signs and Symptoms of Exposure: May cause slight skin irritation especially after prolonged or repeated exposure. Eye contact may produce slight irritation and/or redness. Inhaled dust may cause respiratory irritation.

Ingestion: Low toxicity product.

Medical Conditions Aggravated by Exposure: Existing respiratory conditions.

Target Organ(s): Not Applicable

3. Composition/Information on Ingredients

PRODUCT IDENTIFICATION:

Chemical Name: Cross-linked acrylic co-polymer

MIS Rating: Health - 0, Flammability - 1, Reactivity - 0, Protective Equipment – See Section 8

EXPOSURE LIMITS

<u>CHEMICAL IDENTITY</u>	<u>CAS No.</u>	<u>OSHA PEL</u> (TWA)	<u>ACGIH TLV</u> (TWA)	<u>EH 40/2002</u> (TWA)
Cross-linked acrylic co-polymer	76774-25-9	NE	NE	NE
Particulates Not Otherwise Specified (PNOS)		15 mg/m ³	10 mg/m ³	10 mg/m ³
Inhalable		5 mg/m ³	3 mg/m ³	4 mg/m ³

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Respirable

OSHA PEL - OSHA Permissible Exposure Limit, 8 hour Time-Weighted Average **NE = Not Established**

ACGIH TLV - American Conference of Governmental Industrial Hygienists Threshold Limit Value, 8 hr. TWA, 40 hr. week

UK EH40/2002 - United Kingdom EH40/2002 Occupational Exposure Limits, 8 hr. TWA

4. First Aid Measures

Ingestion: Do not give an emetic unless directed by a physician. Never give anything by mouth to an unconscious person. If patient is conscious, give a pint of water to drink, with additional cupfuls every 15 minutes.

Skin: Remove contaminated clothing and launder before re-use. Wash affected area with soap and water.

Inhalation: Move to fresh air. For all exposures involving irritation, seek medical attention.

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes. Call a physician

5. Fire Fighting Measures

Flash Point (*Method Used*): Not Applicable

Autoignition Temperature: Not Evaluated

Sensitivity to Mechanical Impact: None

Fire Fighting Extinguishing Media: Carbon dioxide, dry chemical or foam.

Fire Fighting Equipment: No special procedures. However, wetted product presents a slip hazard.

Fire and Explosion Hazards: Dust in sufficient concentration can result in an explosive mixture in air. Handle to minimize dusting, and eliminate open flame and other sources of ignition.

Hazardous Decomposition Products: Oxides of carbon and nitrogen.

Emergency Response Guidebook Information: No ERG # indicated. Handle as a combustible material.

6. Accidental Release Measures

Accidental Release Measures: Product becomes slippery and difficult to handle when wet; spills are best handled while still dry. Sweep up and collect dry product. Absorb wet product with vermiculite or other inert material. Then water wash area to waste treatment to eliminate slip hazard.

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7. Handling and Storage

Precautions: Good personal hygiene practices can reduce potential exposure. Wash with soap and water following any contact with this product, as well as before breaks and meals. Shower and change clothing at end of work shift. If clothing becomes contaminated, remove and launder or dry-clean before reuse.

Storage Information: Store in a cool, dry place.

8. Exposure Controls/Personal Protection

Skin Protection: PVC or other plastic, vinyl or rubber gloves recommended.

Eye Protection: Safety glasses or goggles recommended,

Respiratory Protection: Use approved dust mask/respirator P2 or NIOSH approved dust respirator based on consideration of airborne workplace concentration and duration of exposure arising from intended end use.

Engineering Controls: Use local exhaust as required to maintain exposures below applicable occupational exposure limits.

Additional Information: Provide eyewash station(s). Select additional protective equipment (e.g. apron, face shield, etc.) depending on conditions of use.

9. Physical and Chemical Properties

Appearance and Odour:	White granular powder with little or no odour.
Odour Threshold:	Not Applicable
Solubility in Water:	Swells to form a gel in water
Vapor Pressure (mm Hg):	Not Applicable
Vapor Density (Air = 1):	Not Applicable
Decomposition Temperature:	> 200°C
Percent Volatile:	None expected above trace levels
Flammability:	May smolder
Boiling Point:	Not applicable
Melting Point:	Not Applicable
Freezing Point:	Not Applicable
Bulk Density:	0.8 g/cm ³
Evaporation Rate:	Not Applicable
VOC:	Not Evaluated

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10. Stability and Reactivity

Conditions to Avoid: Avoid wet and humid conditions.

Stability: Stable

Hazardous Polymerization: Will not occur

Hazardous Decomposition Products: Thermal decomposition or combustion may produce oxides of carbon.

Incompatibility: Strong oxidants such as liquid chlorine, enriched gaseous or liquid oxygen, and sodium or calcium hypochlorite.

11. Toxicological Information

Acute Oral Toxicity: Low oral toxicity. By analogy to similar materials, the acute LD50 (rat) is expected to be > 2000 mg/kg.

Carcinogenicity: Not listed as a carcinogen by IARC, NTP, OSHA, or ACGIH.

Reproductive Toxicity: No data for product. No effects anticipated.

Teratogenicity: No data for product. No effects anticipated.

Skin Irritation: No data available

Intravenous LD50: No data available

Toxicologically Synergistic Products: None known.

12. Ecological Information

Ecological Information: Product not considered toxic to aquatic organisms. By analogy to similar products, the following results are expected:

Fish Toxicity:

LC₅₀ /96 hr / Freshwater fish: 357 mg/l

EC₅₀ /48 hr / Daphnia Magra: 212 mg/l

13. Disposal Considerations

RCRA Hazard Class: This product, when unadulterated, is not a RCRA regulated hazardous waste.

Waste Disposal Method: Disposal must be arranged in accordance with local and national regulations. Care must be taken to prevent environmental contamination from the disposal of material, residues, and containers.

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14. Transport information

DOT – Proper Shipping Name: Not a DOT/IMO Hazardous Material.

Road Transport ADR/RID: Not a dangerous substance as defined in the above regulations.

Inland Navigation AND/ADNR: Not a dangerous substance as defined in the above regulations.

Maritime Transport IMDG: Not a dangerous substance as defined in the above regulations.

Air Transport ICAO/IATA: Not a dangerous substance as defined in the above regulations.

15. Regulatory Information

SARA 313: This product contains the following chemicals subject to annual release reporting requirements under the SARA section 313 (40 CFR 372): None

CERCLA Section 103 Reportable Quantity: None

TSCA Section 5(e) – Consent Order / SNUR: This product is not subject to a Section 5(e) Consent Order or Significant New Use Rule (SNUR).

TSCA Section 8(b) – Inventory Status: All chemical(s) comprising this product are either exempt or listed on the TSCA Inventory.

Chemical Weapons Convention (CWC): This product does not contain any chemicals listed under the Chemical Weapons Convention Schedules of Chemicals.

California Proposition 65: This product contains no chemicals which are currently listed on the California list of Known Carcinogens and Reproductive Toxins:

European Inventory of Commercial Chemical Substances: All the components of this product are listed on the EINECS Inventory or exempt from notification requirements.

Canadian Environmental Protection Act: All the components of this product are listed on the Canadian Domestic Substances List or exempt from notification requirements.

Japan MITI: All the components of this product are existing chemical substances as defined in the Chemical Substance Control Law

Australian Inventory of Chemical Substances: All the components of this product are listed on the AICS Inventory or exempt from notification requirements.

Canadian WHMIS Classification: Not hazardous

European Community Labeling Classification: No label required

European Community Risk and Safety Phrases: None

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16. Other Information

Recommended Use: Drilling fluid solidifier and lost circulation material

References: Registry for Toxic Effects of Chemical Substances (RTECS), 1995.

Patty's Industrial Hygiene and Toxicology.

2001 ACGIH Guide to Occupational Exposure Limits

United Kingdom EH40/2002 Occupational Exposure Limits

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