

**PRODUCT NAME:** Drill-Sorb

Page 1 of 6

**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

Clear Solutions International Ltd  
Unit B3, Wem Industrial Estate  
Soulton Road  
Wem  
Shropshire SY4 5SD  
ENGLAND

**Tel:** +44 (0) 1939 235754

**Fax:** +44 (0) 1939 232399

## 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 (TWA)</u>	<u>ACGIH TLV (TWA)</u>	<u>EH 40/2002 (TWA)</u>
Cross-linked acrylic co-polymer	76774-25-9	NE	NE	NE
Particulates Not Otherwise Specified (PNOS)		15 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>
Inhalable		5 mg/m <sup>3</sup>	3 mg/m <sup>3</sup>	4 mg/m <sup>3</sup>

---

**PRODUCT NAME:** Drill-Sorb

Page 2 of 6

**Safety Data Sheet No:** 5007EC

---

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.

---

**PRODUCT NAME:** Drill-Sorb

Page 3 of 6

**Safety Data Sheet No:** 5007EC

## 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

---

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

---

**PRODUCT NAME:** Drill-Sorb

Page 4 of 6

**Safety Data Sheet No:** 5007EC

## 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:**

LC<sub>50</sub> /96 hr / Freshwater fish: 357 mg/l

EC<sub>50</sub> /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.

---

**PRODUCT NAME:** Drill-Sorb

Page 5 of 6

**Safety Data Sheet No:** 5007EC

## 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

---

**PRODUCT NAME:** Drill-Sorb

Page 6 of 6

**Safety Data Sheet No:** 5007EC

## 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

---

The information herein has been compiled from sources believed to be reliable and is accurate to the best of our knowledge. However, CLEAR SOLUTIONS INTERNATIONAL LTD cannot give guarantees regarding information from other sources, and expressly does not make any warranties, nor assumes any liability, for its use.