



## MATERIAL SAFETY DATA SHEET

### SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

- **Product name:** DSC Liquid Friction Reducer
- **Chemical Description:** Water in oil emulsion copolymer
- **Product Class/Chemical Family:** Anionic water-soluble polymer in emulsion form
- **Manufacturer:** Deep South Chemical, Inc.  
229 Millstone Road  
Broussard, LA 70518 • (337) 837-9931
- **For Emergency: Call CHEMTREC 1-800-424-9300 Outside the U.S.A. (703)-527-3887**
- **Contact Person:** Glenn Ray
- **Formula:** Proprietary
- **MSDS Revised:** January 1, 2014

### Section 2. INFORMATION ON INGREDIENTS

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Wt. %</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
Hydrotreated Light Distillate	64742-47-8	~ 20	No Limit	No Limit

This product is not considered to be hazardous according to the criteria of the U.S. Federal OSHA Hazard Communication Standard (29 CFR 1910.1200). Similarly it is not a controlled product under WHMIS in Canada

### Section 3. HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW:** This product poses a slight health hazard. Spills produce extremely slippery surfaces.

**NMIS RATINGS:** HEALTH=1, FIRE=0, REACTIVITY=0

**HAZARD RATING SCALE:** 0=MINIMAL, 1=SLIGHT, 2=MODERATE, 3=SERIOUS, 4=SEVERE

**APPEARANCE:** Milky white liquid.

**PRIMARY ROUTES OF ENTRY:** None

**TARGET ORGANS:** None

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:** None known

#### **POTENTIAL HEALTH EFFECTS:**

**EYE CONTACT:** Avoid eye contact. This product is minimally irritating to the eyes upon direct contact. This product has a low vapor pressure and is not expected to present a hazard to the eyes at ambient conditions.

**SKIN CONTACT:** Avoid skin contact. This product is minimally irritating to the skin. Based on testing of similar or related materials, prolonged or repeated contact with the skin may result in contact dermatitis that is characterized by dryness, chapping and reddening. This condition may make the skin more susceptible to other irritants, sensitizers and disease.

**INGESTION:** Do not ingest. Ingestion of small quantities is usually nonfatal unless aspiration occurs. Aspiration may lead to chemical pneumonitis, which is characterized by pulmonary edema and hemorrhage and may be fatal. Signs of lung involvement include increased respiratory rate, increased heart rate and a bluish discoloration of the



skin. Coughing, choking and gagging are often noted at the time of aspiration. Gastrointestinal discomfort may develop followed by vomiting with a further risk of aspiration. Ingestion may also cause gastrointestinal distress. Severe oral intoxication will lead to intense burning of the throat and may result in drowsiness, dullness, numbness and headache followed by dizziness, weakness and nausea. Loss of consciousness and convulsions followed by death may result.

**INHALATION:** Avoid prolonged inhalation of mist or vapors. This product has a low vapor pressure and is not expected to present an inhalation hazard at ambient conditions. Caution should be taken to prevent aerosolization or misting of this product. The Permissible Exposure Limit (PEL) and Threshold Limit Value (TLV) for the oil component in this product as an oil mist is  $5 \text{ mg/m}^3$ . Exposures below this value appear to be without significant health risk. The short-term exposure limit for the oil component in this product as an oil mist is  $10 \text{ mg/m}^3$ . Acute and chronic overexposures may irritate the respiratory tract.

**CARCINOGENICITY:**

**NTP:** No ingredients listed in this section.

**IARC:** No ingredients listed in this section.

**OSHA:** No ingredients listed in this section.

**Section 4. FIRST AID MEASURES**

**EYE CONTACT:** Immediately flush eyes with large amounts of water and continue flushing until irritation subsides. Seek medical attention if irritation persists. Follow good industrial hygiene practices when using this product.

**SKIN CONTACT:** Remove contaminated clothing and wash contaminated areas thoroughly with soap and water. Seek medical attention if irritation or redness persists. Follow good industrial hygiene practices when using this product.

**INHALATION:** Due to its low vapor pressure this product is not expected to present an inhalation hazard. If signs of inhalation overexposure are observed, immediately move victim to fresh air. Seek appropriate medical attention if breathing difficulties are observed.

**INGESTION:** If swallowed, do not induce vomiting. Call a physician. If vomiting occurs lower head below knees to avoid aspiration. Seek medical attention immediately. This product would be expected to be practically non-toxic by ingestion.

**Section 5. FIRE-FIGHTING MEASURES**

**FLASH POINT:**  $>200^\circ\text{F}$

**LOWER FLAMMABLE LIMIT:** Not available

**UPPER FLAMMABLE LIMIT:** Not available

**AUTO-IGNITION TEMPERATURE:**  $>419^\circ\text{F}$

**EXTINGUISHING MEDIA:** Use Water Spray (Fog), Dry Chemical, Foam or Carbon Dioxide

**FIRE-FIGHTING INSTRUCTIONS:** Exercise caution when fighting any chemical fire. A self-contained breathing apparatus and protective clothing are essential.



**FIRE AND EXPLOSION HAZARDS:** Dense smoke may be generated while burning. Carbon Monoxide and other oxides and gases may be generated as products of combustion.

**DECOMPOSITION PRODUCTS:** Thermal decomposition or combustion may produce carbon monoxide, carbon dioxide, nitrogen oxides and sulfur oxides.

**NFPA RATINGS:** Health = 1 Flammability = 1 Reactivity = 0 Special Hazard = None

Hazard rating scale: 0=Minimal; 1=Slight 2=Moderate; 3=Serious; 4=Severe

## **Section 6. ACCIDENTAL RELEASE MEASURES**

### **STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:**

Wear appropriate personal protective equipment. Attempt to contain the spill, collect it onto an inert absorbent and place into suitable container. Spilled product may make floor slippery; spills should be cleaned up immediately in order to prevent falls.

## **Section 7. HANDLING AND STORAGE**

**HANDLING:** As part of good industrial and personal hygiene and safety procedure, avoid all unnecessary exposure to the product and ensure prompt removal from eyes, skin and clothing. Wash thoroughly after handling. Keep container closed when not in use.

**STORAGE:** Product is stable (thermal, light, etc.). Hazardous polymerization will not occur.

## **Section 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

### **PERSONAL PROTECTIVE EQUIPMENT:**

**EYE/FACE PROTECTION:** Chemical splash goggles recommended as a good industrial hygiene practice.

**SKIN PROTECTION:** Wear appropriate clothing to avoid skin contact.

**RESPIRATORY PROTECTION:** None required for normal usage.

**ENGINEERING CONTROLS:** No specific recommendations.

## **Section 9. PHYSICAL AND CHEMICAL PROPERTIES**

**Boiling Point:** >212°F

**Solubility in Water:** Soluble as inverted emulsion

**Vapor Pressure:** Similar to water

**Vapor Density (air = 1):** N/A

**%Volatiles by Weight:** ~ 50 (water)     **Freezing Point:** < -20°C

**Appearance and Odor:** Milky white opaque liquid with a slight oil odor.

## **Section 10. STABILITY AND REACTIVITY**



**CHEMICAL STABILITY:** Stable

**HAZARDOUS POLYMERIZATION:** Will not occur

**CONDITIONS TO AVOID:** No specific information

**INCOMPATIBILITY:** Strong oxidizers

**DECOMPOSITION PRODUCTS:** Thermal decomposition or combustion may produce carbon monoxide, carbon dioxide, nitrogen oxides and sulfur oxides.

### **Section 11. TOXICOLOGICAL INFORMATION**

**Eye Irritation:** see Sections 3, 4.

**Skin Irritation:** see Sections 3, 4.

**Test Material**

**Oral LD50 (rat)**

**Dermal LD50 (rabbit)**

**Inhalation LC50 (rat)**

### **Section 12. ECOLOGICAL INFORMATION**

**Environmental Data:**

TOC: Unknown

COD: Unknown

BOD: Unknown

**Test Material**

**Aquatic Toxicity Data**

Unknown

### **Section 13. DISPOSAL CONSIDERATIONS**

**TSCA STATUS:** All components of this product are on the TSCA and DSL inventories.

**RCRA:** Not a hazardous waste.

**HAZARDOUS WASTE NUMBER:** Not applicable.

**REPORTABLE QUANTITY (40 CFR 302):** Not applicable.

**THRESHOLD PLANNING QUANTITY (40 CFR 335):** Not applicable.

**CALIFORNIA PROPOSITION 65 INFORMATION:** The following statement is made in order to comply with the California Safe Drinking Water and Toxic Enforcement Act of 1986. This product contains a chemical known to the State of California to cause cancer: acrylamide.

### **Section 14. TRANSPORT INFORMATION**

**DOT CLASSIFICATION:**

**Proper Shipping Name:** NON REGULATED

**Class/Division:** Not restricted

**ID Number:** Not applicable

**Packing Group:** Not applicable

**Label:** None

### **Section 15. REGULATORY INFORMATION**

**OSHA Hazard Communication Status:** Non-hazardous



TSCA: The ingredients of this product are listed on the Toxic Substances Control Act (TSCA) Chemical Substances Inventory.

**CERCLA reportable quantity of EPA Hazardous Substances in product:**

Chemical Name RQ  
No ingredients have a CERCLA RQ.

**Product RQ:** Not applicable (Notify EPA of product spills exceeding this amount)

**SARA TITLE III:**

**Section 302 Extremely Hazardous Substances:**

Chemical Name CAS # RQ TPQ  
None

**Section 311 and 312 Health and Physical Hazards:**

Immediate Delayed Fire Pressure Reactivity  
[no] [no] [no] [no] [no]

**Section 313 toxic Chemicals:**

Chemical Name CAS # % by Weight  
None

**Section 16. OTHER INFORMATION**

**HMIS RATINGS: Health = 1 Flammability = 0 Reactivity = 0**

Personal Protective Equipment = A

Hazard rating scale: 0=Minimal; 1=Slight 2=Moderate; 3=Serious; 4=Severe

**MSDS REVISION SUMMARY:** None

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N/D= No data; N/A = Not available; N/E= Not established