



P.O. BOX 1603  
EUNICE, LA 70535  
866-457-0064 or 337-457-0064

## MATERIAL SAFETY DATA SHEET

### DEL FLR

**Product Trade Name: Del FLR**

Revision Date: 1-8-2009

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Trade Name: Del FLR**

**Synonyms:** None

**Chemical Family:** Polymer

**Application:** Additive

**Generic Description:** anionic copolymer-medium molecular weight

**Manufacturer/Supplier** Delta Drilling Products & Services, LLC

**Address** 154 Eastpark Dr., Eunice, La 70535

**Phone Number** 337-457-0064

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

SUBSTANCE	CAS Number	PERCENT	ACGIH TLV-TWA	OSHA PEL-TWA
Contains no hazardous substances				
Mixture 60 - 100% Not applicable Not applicable				

### 3. HAZARDS IDENTIFICATION

**Hazard Overview** May cause eye and skin irritation. Airborne dust may be explosive.

### 4. FIRST AID MEASURES

**Inhalation** If inhaled, remove from area to fresh air. Get medical attention if respiratory irritation develops or if breathing becomes difficult.

**Skin** Wash with soap and water. Get medical attention if irritation persists.

**Eyes** In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention if irritation persists.

**Ingestion** Do not induce vomiting. Slowly dilute with 1-2 glasses of water or milk and seek medical attention. Never give anything by mouth to an unconscious person.

**Notes to Physician** Not Applicable

## 5. FIRE FIGHTING MEASURES

**Flash Point/Range (F):** Not Determined

**Flash Point/Range (C):** Not Determined

**Flash Point Method:** Not Determined

**Autoignition Temperature (F):** Not Determined

**Autoignition Temperature (C):** Not Determined

**Flammability Limits in Air - Lower (%):** Not Determined

**Flammability Limits in Air - Upper (%):** Not Determined

**Fire Extinguishing Media:** Carbon Dioxide, Dry Chemicals, Foam.

**Special Exposure Hazards:** Decomposition in fire may produce toxic gases. Organic dust in the presence of an ignition source can be explosive in high concentrations. Good housekeeping practices are required to minimize this potential.

**Special Protective Equipment for Fire-Fighters:** Full protective clothing and approved self-contained breathing apparatus required for fire fighting personnel.

**NFPA Ratings:** Health 1, Flammability 0, Reactivity 0

**HMIS Ratings:** Flammability 0, Reactivity 0, Health 1

## 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautionary Measures** Use appropriate protective equipment. Avoid creating and breathing dust. Slippery when wet.

**Environmental Precautionary Measures**

None known.

**Procedure for Cleaning / Absorption**

Scoop up and remove.

## 7. HANDLING AND STORAGE

**Handling Precautions** Avoid contact with eyes, skin, or clothing. Avoid creating or inhaling dust. Slippery when wet.

**Storage Information** Store away from oxidizers. Store in a cool, dry location.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Engineering Controls** Use in a well ventilated area.

**Respiratory Protection** Not normally needed. But if significant exposures are possible then the following respirator is recommended: Dust/mist respirator. (95%)

**Hand Protection** Normal work gloves.

**Skin Protection** Normal work coveralls.

**Eye Protection** Wear safety glasses or goggles to protect against exposure.

**Other Precautions** None known.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical State:** Solid

**Color:** tan to off white

## PHYSICAL AND CHEMICAL PROPERTIES

**Odor:** Odorless  
**pH:** 6-7 @ 1%  
**Specific Gravity @ 20 C (Water=1):** 1.5  
**Density @ 20 C (lbs./gallon):** Not Determined  
**Bulk Density @ 20 C (lbs/ft3):** 50  
**Boiling Point/Range (F):** Not Determined  
**Boiling Point/Range (C):** Not Determined  
**Freezing Point/Range (F):** Not Determined  
**Freezing Point/Range (C):** Not Determined  
**Vapor Pressure @ 20 C (mmHg):** Not Determined  
**Vapor Density (Air=1):** Not Determined  
**Percent Volatiles:** Not Determined  
**Evaporation Rate (Butyl Acetate=1):** Not Determined  
**Solubility in Water (g/100ml):** Soluble  
**Solubility in Solvents (g/100ml):** Not Determined  
**VOCs (lbs./gallon):** Not Determined  
**Viscosity, Dynamic @ 20 C (centipoise):** Not Determined  
**Viscosity, Kinematic @ 20 C (centistrokes):** Not Determined  
**Partition Coefficient/n-Octanol/Water:** Not Determined  
**Molecular Weight (g/mole):** 200,000 – 250,000 (typical)

## 10. STABILITY AND REACTIVITY

**Stability Data:** Stable  
**Hazardous Polymerization:** Will Not Occur  
**Conditions to Avoid:** None anticipated  
**Incompatibility (Materials to Avoid):** Strong oxidizers.  
**Hazardous Decomposition Products:** Ammonia. Oxides of nitrogen. Carbon monoxide and carbon dioxide.  
**Additional Guidelines:** Not Applicable

## 11. TOXICOLOGICAL INFORMATION

**Principle Route of Exposure:** Eye or skin contact, inhalation.  
**Inhalation:** None known.  
**Skin Contact:** May cause mild skin irritation.  
**Eye Contact:** May cause mild eye irritation.  
**Ingestion:** None known  
**Aggravated Medical Conditions:** None known.  
**Chronic Effects/Carcinogenicity:** No data available to indicate product or components present at greater than 1% are chronic health hazards.  
**Other Information:** None known.  
**Toxicity Tests**  
**Oral Toxicity:** LD50: > 5000 mg/kg (Rat)  
**Dermal Toxicity:** Not determined  
**Inhalation Toxicity:** Not determined  
**Primary Irritation Effect:** Not determined  
**Carcinogenicity:** Not determined  
**Genotoxicity:** Not determined  
**Reproductive / Developmental Toxicity:** Not determined

## 12. ECOLOGICAL INFORMATION

**Mobility (Water/Soil/Air)** Not determined  
**Persistence/Degradability** Not readily biodegradable.  
**Bio-accumulation** Will not bio-accumulate.

### Ecotoxicological Information

**Acute Fish Toxicity:** TLM96: >1000 mg/l (Pimephales promelas)  
**Acute Crustaceans Toxicity:** Not determined  
**Acute Algae Toxicity:** EC50: > 500 mg/l (Selenastrum capricornutum)  
**Chemical Fate Information** Not determined  
**Other Information** Not applicable

## 13. DISPOSAL CONSIDERATIONS

**Disposal Method** Bury in a licensed landfill according to federal, state, and local regulations.  
**Contaminated Packaging** Follow all applicable national or local regulations.

## 14. TRANSPORT INFORMATION

### Land Transportation

**DOT:** Not restricted  
**Canadian TDG:** Not restricted  
**ADR:** Not restricted

### Air Transportation

**ICAO/IATA:** Not restricted

### Sea Transportation

**IMDG:** Not restricted

### Other Shipping Information

**Labels:** None required

## 15. REGULATORY INFORMATION

### US Regulations

**US TSCA Inventory:** All components listed on inventory.  
**EPA SARA Title III Extremely Hazardous Substances:** Not applicable  
**EPA SARA (311,312) Hazard Class:** None  
**EPA SARA (313) Chemicals:** This product does not contain a toxic chemical for routine annual "Toxic Chemical Release Reporting" under Section 313 (40 CFR 372).  
**EPA CERCLA/Superfund Reportable Spill Quantity For This Product:** Not applicable.  
**EPA RCRA Hazardous Waste Classification:** If product becomes a waste, it does NOT meet the criteria of a hazardous waste as defined by the US EPA.  
**California Proposition 65** The California Proposition 65 regulations apply to this product.  
**MA Right-to-Know Law** One or more components listed.  
**NJ Right-to-Know Law** One or more components listed.  
**PA Right-to-Know Law** One or more components listed

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**Revision Date:** 1-8-2009

**\*END OF MSDS\***

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