

**MATERIAL SAFETY DATA SHEET****Product Trade Name:** **ALUMINUM STEARATE****Revision Date:** 04-Jan-2011**1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION****Product Trade Name:** ALUMINUM STEARATE**Synonyms:** None**Chemical Family:** Metal Soap**Application:** Additive**Manufacturer/Supplier**  
Baroid Fluid Services  
Product Service Line of Halliburton  
P.O. Box 1675  
Houston, TX 77251  
Telephone: (281) 871-4000  
Emergency Telephone: (281) 575-5000**Prepared By**  
Chemical Compliance  
Telephone: 1-580-251-4335  
e-mail: fdunexchem@halliburton.com**2. COMPOSITION/INFORMATION ON INGREDIENTS**

| Substances        | CAS Number | PERCENT (w/w) | ACGIH TLV-TWA       | OSHA PEL-TWA        |
|-------------------|------------|---------------|---------------------|---------------------|
| Aluminum stearate | 637-12-7   | 60 - 100%     | 2 mg/m <sup>3</sup> | 2 mg/m <sup>3</sup> |

**3. HAZARDS IDENTIFICATION****Hazard Overview** May cause eye and respiratory 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

|   |  |
|---|--|
| <b>Flash Point/Range (F):</b>                         | Not Determined <b>Min:</b> > 300   |
| <b>Flash Point/Range (C):</b>                         | Not Determined <b>Min:</b> > 150   |
| <b>Flash Point Method:</b>                            | Not Determined   |
| <b>Autoignition Temperature (F):</b>                  | Not Determined   |
| <b>Autoignition Temperature (C):</b>                  | Not Determined   |
| <b>Flammability Limits in Air - Lower (%):</b>        | Not Determined   |
| <b>Flammability Limits in Air - Upper (%):</b>        | Not Determined   |
| <b>Fire Extinguishing Media</b>                       | Water fog, carbon dioxide, foam, dry chemical.   |
| <b>Special Exposure Hazards</b>                       | Organic dust in the presence of an ignition source can be explosive in high concentrations. Good housekeeping practices are required to minimize this potential. |
| <b>Special Protective Equipment for Fire-Fighters</b> | Full protective clothing and approved self-contained breathing apparatus required for fire fighting personnel.   |
| <b>NFPA Ratings:</b>                                  | Health 0, Flammability 1, Reactivity 0   |
| <b>HMIS Ratings:</b>                                  | Health 0, Flammability 1, Physical Hazard 0 , PPE: E   |

## 6. ACCIDENTAL RELEASE MEASURES

|   |  |
|---|--|
| <b>Personal Precautionary Measures</b>      | Use appropriate protective equipment.  |
| <b>Environmental Precautionary Measures</b> | None known.  |
| <b>Procedure for Cleaning / Absorption</b>  | Remove ignition sources and work with non-sparking tools. Scoop up and remove. |

## 7. HANDLING AND STORAGE

|                             |  |
|-----------------------------|--|
| <b>Handling Precautions</b> | Avoid contact with eyes, skin, or clothing. Avoid creating or inhaling dust. Avoid dust accumulations.       |
| <b>Storage Information</b>  | Store in a cool, dry location. Keep container closed when not in use. Product has a shelf life of 36 months. |

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

|                               |   |
|-------------------------------|---|
| <b>Engineering Controls</b>   | A well ventilated area to control dust levels.              |
| <b>Respiratory Protection</b> | Dust/mist respirator. (N95, P2/P3)                          |
| <b>Hand Protection</b>        | Normal work gloves.   |
| <b>Skin Protection</b>        | Normal work coveralls.                                      |
| <b>Eye Protection</b>         | Wear safety glasses or goggles to protect against exposure. |
| <b>Other Precautions</b>      | None known.   |

## 9. PHYSICAL AND CHEMICAL PROPERTIES

|   |                     |
|---|---------------------|
| <b>Physical State:</b>                            | Powder              |
| <b>Color:</b>                                     | White               |
| <b>Odor:</b>                                      | Mild fatty          |
| <b>pH:</b>  | Not Determined      |
| <b>Specific Gravity @ 20 C (Water=1):</b>         | 1.01                |
| <b>Density @ 20 C (lbs./gallon):</b>              | Not Determined      |
| <b>Bulk Density @ 20 C (lbs/ft3):</b>             | 16-21               |
| <b>Boiling Point/Range (F):</b>                   | Not Determined      |
| <b>Boiling Point/Range (C):</b>                   | Not Determined      |
| <b>Freezing Point/Range (F):</b>                  | Not Determined      |
| <b>Freezing Point/Range (C):</b>                  | Not Determined      |
| <b>Vapor Pressure @ 20 C (mmHg):</b>              | Not Determined      |
| <b>Vapor Density (Air=1):</b>                     | Not Determined      |
| <b>Percent Volatiles:</b>                         | Not Determined      |
| <b>Evaporation Rate (Butyl Acetate=1):</b>        | Not Determined      |
| <b>Solubility in Water (g/100ml):</b>             | Insoluble           |
| <b>Solubility in Solvents (g/100ml):</b>          | Soluble in alcohols |
| <b>VOCs (lbs./gallon):</b>                        | Not Determined      |
| <b>Viscosity, Dynamic @ 20 C (centipoise):</b>    | Not Determined      |
| <b>Viscosity, Kinematic @ 20 C (centistokes):</b> | Not Determined      |
| <b>Partition Coefficient/n-Octanol/Water:</b>     | Not Determined      |
| <b>Molecular Weight (g/mole):</b>                 | Not Determined      |

## 10. STABILITY AND REACTIVITY

|   |                                     |
|---|-------------------------------------|
| <b>Stability Data:</b>                      | Stable                              |
| <b>Hazardous Polymerization:</b>            | Will Not Occur                      |
| <b>Conditions to Avoid</b>                  | None known.                         |
| <b>Incompatibility (Materials to Avoid)</b> | Strong oxidizers.                   |
| <b>Hazardous Decomposition Products</b>     | Carbon monoxide and carbon dioxide. |
| <b>Additional Guidelines</b>                | Not Applicable                      |

## 11. TOXICOLOGICAL INFORMATION

|                                    |                                  |
|------------------------------------|----------------------------------|
| <b>Principle Route of Exposure</b> | Eye or skin contact, inhalation. |
|------------------------------------|----------------------------------|

### Symptoms related to exposure

#### Acute Toxicity

|                     |   |
|---------------------|---|
| <b>Inhalation</b>   | May cause mild respiratory irritation.  |
| <b>Eye Contact</b>  | May cause mechanical irritation to eye. |
| <b>Skin Contact</b> | None known.                             |
| <b>Ingestion</b>    | Low level of toxicity by ingestion.     |

|  |  |
|--|--|
| <b>Chronic Effects/Carcinogenicity</b> | No data available to indicate product or components present at greater than 1% are chronic health hazards. |
|--|--|

### Toxicology data for the components

| Substances        | CAS Number | LD50 Oral    | LD50 Dermal  | LC50 Inhalation   |
|-------------------|------------|--------------|--------------|-------------------|
| Aluminum stearate | 637-12-7   | >5,000 mg/kg | >3,000 mg/kg | No data available |

## 12. ECOLOGICAL INFORMATION

### Ecotoxicological Information

#### Ecotoxicity Product

**Acute Fish Toxicity:** TLM96: 1100 mg/l (Oncorhynchus mykiss)  
**Acute Crustaceans Toxicity:** TLM96: 836400 ppm (Mysidopsis bahia) SPP @ 0.75 ppb  
**Acute Algae Toxicity:** Not determined

#### Ecotoxicity Substance

| Substances        | CAS Number | Toxicity to Algae        | Toxicity to Fish                       | Toxicity to Microorganisms | Toxicity to Invertebrates            |
|-------------------|------------|--------------------------|--|----------------------------|--------------------------------------|
| Aluminum stearate | 637-12-7   | No information available | TLM96: 1100 mg/l (Oncorhynchus mykiss) | No information available   | TLM96: 836400 ppm (Mysidopsis bahia) |

#### 12.2. Persistence and degradability

| Substances        | CAS Number | Persistence and Degradability |
|-------------------|------------|-------------------------------|
| Aluminum stearate | 637-12-7   | No information available      |

#### 12.3. Bioaccumulative potential

| Substances        | CAS Number | Log Pow                  |
|-------------------|------------|--------------------------|
| Aluminum stearate | 637-12-7   | No information available |

#### 12.4. Mobility in soil

No information available

#### 12.5. Results of PBT and vPvB assessment

No information available.

#### 12.6. Other adverse effects

## 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

#### US DOT

**UN Number:** Not restricted.  
**UN Proper Shipping Name:** Not restricted  
**Transport Hazard Class(es):** Not applicable  
**Packing Group:** Not applicable

#### US DOT Bulk

**DOT (Bulk)** Not Applicable

#### Canadian TDG u10

**UN Number:** Not restricted.  
**UN Proper Shipping Name:** Not restricted  
**Transport Hazard Class(es):** Not applicable  
**Packing Group:** Not applicable

#### IMDG/IMO

**UN Number:** Not restricted.  
**UN Proper Shipping Name:** Not restricted  
**Transport Hazard Class(es):** Not applicable  
**Packing Group:** Not applicable

#### IATA/ICAO

**UN Number:** Not restricted.  
**UN Proper Shipping Name:** Not restricted  
**Transport Hazard Class(es):** Not applicable  
**Packing Group:** Not applicable

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:** Not applicable  
**Special Precautions for User:** None

## **15. REGULATORY INFORMATION**

### **US Regulations**

**US TSCA Inventory** All components listed on inventory or are exempt.

**EPA SARA Title III Extremely Hazardous Substances** Not applicable

**EPA SARA (311,312) Hazard Class** Fire Hazard

**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** 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** All components listed do not apply to the California Proposition 65 Regulation.

**MA Right-to-Know Law** Does not apply.

**NJ Right-to-Know Law** Does not apply.

**PA Right-to-Know Law** Does not apply.

### **Canadian Regulations**

**Canadian DSL Inventory** All components listed on inventory or are exempt.

**WHMIS Hazard Class** Un-Controlled

## **16. OTHER INFORMATION**

**The following sections have been revised since the last issue of this SDS**  
Not applicable

**Additional information**

For additional information on the use of this product, contact your local Halliburton representative.

For questions about the Safety Data Sheet for this or other Halliburton products, contact Chemical Compliance at 1-580-251-4335.

**Disclaimer Statement**

This information is furnished without warranty, expressed or implied, as to accuracy or completeness. The information is obtained from various sources including the manufacturer and other third party sources. The information may not be valid under all conditions nor if this material is used in combination with other materials or in any process. Final determination of suitability of any material is the sole responsibility of the user.

**\*\*\*END OF MSDS\*\*\***