



Safety Data Sheet

Prepared for:

Anchor Drilling Fluids USA, Inc.
2431 East 61st Street, Suite 710
Tulsa, Oklahoma 74136
918.583.7701

October 2, 2013

Section 1: Identification	
<i>Identification of the chemical as well as the recommended uses and the essential contact information of the supplier.</i>	
Product Identifier:	Aluminum Stearate
Common Name(s):	N/A
Chemical Family:	Organometallic Compound
Synonyms:	Aluminum Distearate, Aluminum Tristearate
Manufacturer, Importer, and/or Responsible Party Information	
Name:	Anchor Drilling Fluids USA, Inc.
Address:	2431 East 61 st Street, Suite 710, Tulsa, Oklahoma 74136
Phone Number:	918.583.7701
Emergency Phone Number:	CHEMTREC: 800.424.9300
Recommended Use of Chemical	
Chemical Services:	Drilling mud production
Use Restrictions:	N/A

Section 2: Hazard(s) Identification	
<i>Identification of the hazards of the chemical presented and the appropriate warning information associated with those hazards.</i>	
Hazard Classification:	C.4.1 Acute Toxicity - Oral: Hazard Category 4 & C.4.3 Acute Toxicity - Inhalation: Hazard Category 3
Signal Word:	Danger
Hazard Statement(s):	Harmful if swallowed; Toxic if inhaled.
Pictogram(s):	Skull and crossbones; Exclamation mark  
Precautionary Statement(s):	<u>Prevention:</u> Wash thoroughly after handling. Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray. Only use in well-ventilated areas. <u>Response:</u> If inhaled, remove person to fresh air and give oxygen. If swallowed, call poison center and physician. <u>Storage:</u> Store in well-ventilated area. Keep container closed.
Description of any hazards not otherwise classified:	N/A
Mixture Identification (if toxicity is unknown)	
Percentage of the mixture consisting of ingredient(s) with unknown toxicity:	N/A
<i>Note: this is a total percentage of the mixture and not tied to the individual ingredient(s).</i>	

Section 3: Composition/Information on Ingredients

Identification of the ingredient(s) contained in the product, including impurities and stabilizing additives. This section includes information on substances, mixtures and all chemicals where a trade secret is claimed.

Substances

Chemical Names: Aluminum Stearate

Common Names: N/A

Synonyms: Aluminum Distearate, Aluminum Tristearate

Chemical Abstract Service (CAS) Numbers: 300-92-5

Any other unique identifiers: N/A

Impurities and stabilizing additives (which are themselves classified and which contribute to the classification of the chemical): No

Mixtures

This chemical is a substance.

Recommended Use of Chemical

Chemical Services: Drilling mud production

Use Restrictions: N/A

Trade Secret

Is the specific chemical identity and/or exact concentration of composition withheld as a trade secret? No. Chemical formula: ALOH (C18H35O2)2

Section 4: First-Aid Measures

Description of the initial care that should be given by untrained responders to an individual who has been exposed to the chemical.

Necessary first-aid instructions

Inhalation: Move to fresh air, if breathing is difficult; give oxygen. If symptoms persist, call physician.

Acute Symptoms of Inhalation: Difficulty breathing, respiratory irritation.

Delayed Symptoms of Inhalation: N/A

Skin Contact: Ordinary measures of personal hygiene should be adequate.

Acute Symptoms of Skin Contact: None

Delayed Symptoms of Skin Contact: None

Eye Contact: Flush with plenty of water. If irritation develops, call a physician.

Acute Symptoms of Eye Contact: None

Delayed Symptoms of Eye Contact: Possible irritation.

Ingestion: Consult a physician and/or poison control. Never give anything by mouth to an unconscious person.

Acute Symptoms of Ingestion: Nausea

Delayed Symptoms of Ingestion: N/A

Immediate Medical Care / Special Treatment

Is immediate medical care or special treatment required? No

If so, what is needed: No

Section 5: Fire-Fighting Measures

Recommendations for fighting a fire caused by or including the chemical.

Suitable Extinguishing Equipment: Dry chemical, water spray, water fog, CO₂, foam, or sand & earth.

Extinguishing equipment not appropriate: N/A

Specific hazards created from chemical burning: Dust in high concentrations may form explosive mixtures with air. Keep away from open flames.

Special protective equipment needed: Firefighters should wear normal protective equipment including a self-contained breathing apparatus.

Section 6: Accidental Release Measures

Recommendations on the appropriate response to spills, leaks, or releases; including containment and cleanup practices to prevent or minimize exposure to people, properties, or the environment.

Personal Precautions: None.

Emergency Procedure(s): None.

Method(s) and material(s) used for containment: Broom, sweep up material and repackage.

Cleanup procedure(s): Sweep up material and repackage.

Section 7: Handling and Storage

Guidance on the safe handling practices and conditions for safe storage of the chemical.

Handling precautions: Non-hazardous.

Hygiene practices: N/A

Safe storage recommendation: Keep away from strong oxidizers and open flames.

Incompatible storage options: Near open flames or strong oxidizers.

Section 8: Exposure Controls/Personal Protection

Identification of the exposure limits, engineering controls, and personal protective measures that can be used to minimize worker exposure.

OSHA Permissible Exposure Limits (PELs): Not OSHA regulated.

American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Values (TLVs): Aluminum metal [7429-90-5] and insoluble compounds (2007): TWA = 1mg/m^{3(R)}

Exposure limit (recommended by manufacturer, importer or employer): N/A

Appropriate Engineering Controls: Local and mechanical exhaust

Recommendations for personal protective measures: Wear a dust respirator

Special requirements of PPE, protective clothing or respirators: N/A

Section 9: Physical and Chemical Properties

Identification of physical and chemical properties associated with the substance or mixture.

Appearance (Physical State):	Powder
Color:	White
Odor:	Slight, Fatty Acid
Odor Threshold:	Not regulated
Vapor Pressure:	N/A
Vapor Density:	N/A
pH:	Mild
Relative Density:	N/A
Melting Point:	145-165 °C
Freezing Point:	N/A
Solubility(ies):	Very low solubility
Initial Boiling Point:	N/A
Boiling Range:	N/A
Flash Point:	500 °F
Evaporation Rate:	N/A
Flammability:	N/A
Upper/lower flammability or explosive limits:	N/A
Partition Coefficient:	N/A
Auto-Ignition Temperature:	N/A
Decomposition Temperature:	N/A
Viscosity:	N/A

Section 10: Stability and Reactivity	
<i>Description of the reactivity hazards of the chemical and the chemical stability information.</i>	
Reactivity	
Description of specific test data:	None
Chemical Stability	
Is the chemical stable or unstable:	Stable
Stabilizers needed to maintain chemical stability:	None
Safety issues that may arise should the chemical change in physical appearance:	N/A
Other	
Conditions in which hazardous reactions may occur:	Interaction with strong oxidizers
Possibility of hazardous reactions:	Low possibility
Will chemical react or polymerize:	No
Will chemical release pressure, heat, or any other hazardous conditions:	No
Conditions to avoid:	Interaction with strong oxidizers
Class(es) of incompatible material(s):	Strong oxidizers
Known or anticipated hazardous decomposition products produced because of storage, use, or heating:	Smoke, fumes, carbon monoxide, carbon dioxide

Section 11: Toxicological Information	
<i>Identification of toxicological and/or health effects.</i>	
Likely routes of exposure:	Inhalation, skin contact, ingestion
Delayed, immediate or chronic effects of short-term exposure:	N/A
Delayed, immediate or chronic effects of long-term exposure:	May cause difficulty breathing or respiratory irritation. May cause nausea if ingested.
Numerical measurement of toxicity:	Health: 1, Flammability: 1, Reactivity: 0
Description of symptoms (lowest to most severe):	Eye/Skin irritation Nausea Respiratory irritation Difficulty breathing
Is chemical listed in the National Toxicology Program (NTP) Report on Carcinogens:	No
Has chemical been found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs:	No
Has chemical been found to be a potential carcinogen by OSHA:	No

Section 12: Ecological Information (non-mandatory)

Information to evaluate the environmental impact of the chemical if it were released to the environment.

Toxicity test results performed on aquatic and/or terrestrial organisms:	None
Does the chemical have the potential to degrade the environment (biodegradation, oxidation, hydrolysis, etc.):	No
Bioaccumulation test results:	None
Potential of chemical moving from soil to the groundwater:	Low potential: low solubility prevents chemical from mixing with water and penetrating soil
Other adverse effects:	N/A

Section 13: Disposal Considerations (non-mandatory)

Guidance on proper disposal practices, recycling or reclamation of the chemical or its container. Safe handling practices to minimize exposure. (Refer to section 8 for more information)

Appropriate disposal containers:	Original packaging
Appropriate disposal methods:	N/A
Physical and chemical properties that may affect disposal activities:	Low solubility
Special precautions for landfills or incineration activities:	Burning chemical creates harmful gasses.
Is it advisable to utilize sewage disposal for this chemical:	No

Section 14: Transport Information (non-mandatory)

Guidance on classification information for shipping and transporting the chemical by road, air, rail, or sea.

UN Number:	N/A
UN Shipping Name:	Oil-Well Treating Compound
Transport Hazard Class(es):	N/A
Packing Group Number:	N/A
Environmental Hazards:	N/A
International Bulk Chemical (IBC) Code:	N/A
Special precautions during transportation:	N/A

Section 15: Regulatory Information (non-mandatory)

Identification of safety, health and environmental regulations specific for the chemical that is not indicated anywhere else on this SDS.

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

Clean Air Act - Hazardous Air Pollutants (HAP): This product does not contain any chemicals listed within the Hazardous Air Pollutants.

Clean Air Act - Ozone Depleting Substances (ODS): This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 302 (40 CFR 82, Subpart A, App. A+B).

Clean Water Act - Priority Pollutants (PP): This product does not contain any PP listed under the U.S. Clean Water Act, Section 307 (2)(1) PP List (40 CFR 401.15).

Occupational Safety and Health Act (OSHA): The OSHA Hazard Communication Standard (29 CFR 1910.1200) defines this chemical as C.4.1 Acute Toxicity - Oral: Hazard Category 4 & C.4.3 Acute Toxicity - Inhalation: Hazard Category 3. For more information, see Section 2 of this SDS.

Resource Conservation and Recovery Act (RCRA): This product is not considered to be a P- or U-Listed hazardous waste under RCRA (40 CFR 261).

Superfund Amendments and Reauthorization Act (SARA) Title III: Section 302 - Extremely Hazardous Substances (EHS): This product does not contain any chemicals regulated under Section 302 (40 CFR 355) as extremely hazardous substances.

Superfund Amendments and Reauthorization Act (SARA) Title III: Section 304 - CERCLA: This product does not contain any chemicals regulated under Section 304 (40 CFR 302) as hazardous substance(s) for emergency release notification.

Superfund Amendments and Reauthorization Act (SARA) Title III: Section 311/312 - Hazard Communication Standard (HCS): This product is not regulated under Section 3-1-312 (40 CFR 370).

Superfund Amendments and Reauthorization Act (SARA) Title III: Section 313 Toxic Chemical List (TCL): This product does not contain any chemicals for routine annual toxic chemical release reporting under Section 313 (40 CFR 372).

TSCA Section 5(e) - Consent Order / SNUR: The chemical is subject to a Section 5(3) Consent Order for Significant New Use Rule (SNUR).

TSCA Section 8(b) - Inventory Status: The chemical is subject to TSCA Section 8(b).

TSCA Section 12(b) - Export Notification: This product does not contain any chemical(s) that are subject to a Section 12(b) export notification.

Items in red require immediate attention.

Section 16: Other Information

Date of SDS Preparation: October 2, 2013

Revision Date:

Changes from previous version:

Other useful information:

We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind, expressed or implied, and we assume no responsibility for any damage or expense.