


Safety Data Sheet

Prepared for:

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

October 22, 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:	Oil Based Mud
Common Name(s):	N/A
Chemical Family:	Mixture
Synonyms:	None
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:	Oil Based Mud is used in mud drilling production
Use Restrictions:	None

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, C.4.2 & C.4.3 Acute Toxicity - Oral, Dermal & Inhalation: Hazard Category 4, C.4.19 Flammable Liquids: Hazard Category 2
Signal Word:	Warning, Danger
Hazard Statement(s):	Harmful if inhaled, ingested, or in contact with skin. Combustible Liquid
Pictogram(s):	 Exclamation Mark
Precautionary Statement(s):	<p><i>If swallowed:</i> Call a poison center/doctor/ if you feel unwell. ... Chemical manufacturer, importer, or distributor to specify the appropriate source of emergency medical advice. Rinse mouth. <i>If on skin:</i> Wash with plenty of water, Chemical manufacturer, importer, or distributor may specify a cleansing agent if appropriate, or may recommend an alternative agent in exceptional cases if water is clearly inappropriate. Take off contaminated clothing and wash it before reuse. <i>If in eyes:</i> Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. <i>If eye irritation persists:</i> Get medical advice/attention. <i>Other:</i> Wash thoroughly after handling. Avoid breathing dust/fumes/gas/mist/vapors/spray. Use only in well ventilated areas. Wear protective clothing and gloves. Do not eat, drink or smoke when using this product. Keep away from heat/sparks/open flames/hot surfaces – no smoking.</p>
Description of any hazards not otherwise classified:	None
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	
<i>Identification of the ingredient(s) contained in the product, including impurities and stabilizing additives. This section includes substances, mixtures and all chemicals where trade secret is claimed.</i>	
Substances	
This product is a mixture	
Mixtures	
Chemical Names and Concentration:	Diesel Oil, Petroleum Distillates – 15-45%, Barite – 5-60%, Calcium Chloride – 15-40%, Hydrocarbon Blend – 5-25%, Silica, Crystalline, Quartz – 1-5%, Calcium Hydroxide – 1-5%, Organophilic Clay – 1-5%
Chemical Abstract Service (CAS) Number:	68476-34-6, 7277-43-7, 10043-52-4, Mix, 14808-60-7, 1305-62-0
Any other unique identifiers:	None
Impurities and stabilizing additives (which are themselves classified and which contribute to the classification of the chemical):	None
Recommended Use of Chemical	
Chemical Services:	Oil Based Mud is used in mud drilling production
Use Restrictions:	None
Trade Secret	
Is the specific chemical identity and/or exact concentration of composition withheld as a trade secret?	No

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 not breathing give artificial respiration; consult a physician if irritation persists

Acute Symptoms of Inhalation: Irritation

Delayed Symptoms of Inhalation: Possible breath cessation

Skin Contact: Wash thoroughly with soap and water, remove contaminated clothing; consult a physician if irritation persists

Acute Symptoms of Skin Contact: Irritation

Delayed Symptoms of Skin Contact: Advanced irritation

Eye Contact: Flush eyes with water for a minimum of 15 minutes; consult a physician if irritation persists

Acute Symptoms of Eye Contact: Aggravation of eyes

Delayed Symptoms of Eye Contact: Advanced irritation

Ingestion: Do not induce vomiting, dilute with 2-3 glasses of water or milk. Do not give anything by mouth to an unconscious person; consult a physician if symptoms persist

Acute Symptoms of Ingestion: Mild irritation

Delayed Symptoms of Ingestion: Advanced irritation

Immediate Medical Care / Special Treatment

Is immediate medical care or special treatment required? No

If so, what is needed: N/A

Section 5: Fire-Fighting Measures

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

Suitable Extinguishing Equipment: Water Fog, Foam, Dry Chemical, CO₂

Extinguishing equipment not appropriate: None

Specific hazards created from chemical burning: Toxic gases may be released

Special protective equipment needed: 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: Wear appropriate safety gloves, long sleeved clothing, and goggles with side shields and a NIOSH approved nuisance dust respirator.

Emergency Procedure(s): Immediately contain the spill using absorbent materials.

Method(s) and material(s) used for containment: The spilled chemical will be contained and remediated using absorbent materials such as Green Stuff Absorbent and disposed of in accordance with Section 13 of this SDS.

Cleanup procedure(s): Dispose of any chemical waste according to local, state and federal guidelines.

Section 7: Handling and Storage

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

Handling precautions:	Wear appropriate safety apparatus, avoid contact, use only in well-ventilated areas
Hygiene practices:	Normal hygiene practices are sufficient
Safe storage recommendation:	Keep away from ignition sources, keep container tightly sealed, protect from freezing.
Incompatible storage options:	Oxidizers and Alkalis and/or Combustible Materials

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 listed
American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Values (TLVs):	Calcium Hydroxide – 5 mg/m ³ Diesel – 100 mg/m ³ Silica – 0.025 mg/m ³
Exposure limit (recommended by manufacturer, importer or employer):	N/A
Appropriate Engineering Controls:	Local exhaust ventilation, eye wash station and safety shower
Recommendations for personal protective measures:	Chemical resistant gloves, safety goggles and NIOSH approved mask are recommended.
Special requirements of PPE, protective clothing or respirators:	None

Section 9: Physical and Chemical Properties

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

Appearance (Physical State):	Liquid
Color:	Grey to Brown
Odor:	Hydrocarbon
Odor Threshold:	Mixed
Vapor Pressure:	NDA
pH:	NDA
Relative Density:	NDA
Melting Point:	NDA
Freezing Point:	NDA
Solubility(ies):	Soluble
Initial Boiling Point:	NDA
Boiling Range:	NDA
Flash Point:	174°F
Evaporation Rate:	NDA
Flammability:	Flammable
Upper/lower flammability or explosive limits:	NDA
Partition Coefficient:	NDA
Auto-Ignition Temperature:	NDA
Decomposition Temperature:	NDA
Viscosity:	NDA

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 under normal operating conditions
Stabilizers needed to maintain chemical stability:	None
Safety issues that may arise should the chemical change in physical appearance:	None
Other	
Conditions in which hazardous reactions may occur:	Storage near incompatible materials or heat
Possibility of hazardous reactions:	Moderate
Will chemical react or polymerize:	No
Will chemical release pressure, heat, or any other hazardous conditions:	Yes
Conditions to avoid:	Keep away from heat, sparks and flame
Class(es) of incompatible material(s):	Oxidizers and Acids
Known or anticipated hazardous decomposition products produced because of storage, use, or heating:	NDA

Section 11: Toxicological Information	
<i>Identification of toxicological and/or health effects.</i>	
Likely routes of exposure:	Inhalation, Skin, Ingestion, Eyes
Delayed, immediate or chronic effects of short-term exposure:	May cause irritation
Delayed, immediate or chronic effects of long-term exposure:	Possible Central Nervous System complications
Numerical measurement of toxicity:	Health: 2, Flammability: 2, Reactivity: 0
Description of symptoms (lowest to most severe):	Irritation Complications with central nervous system
Is chemical listed in the National Toxicology Program (NTP) Report on Carcinogens:	Yes
Has chemical been found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs:	Yes
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:	NDA
Does the chemical have the potential to degrade the environment (biodegradation, oxidation, hydrolysis, etc.):	N/A
Bioaccumulation test results:	N/A
Potential of chemical moving from soil to the groundwater:	Likely due to water solubility
Other adverse effects:	None known

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 container or any in accordance with local, state and federal regulations
Appropriate disposal methods:	Dispose of in accordance with local, state and federal regulations
Physical and chemical properties that may affect disposal activities:	None
Special precautions for landfills or incineration activities:	None
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:	UN1983
UN Shipping Name:	Diesel Fuel
Transport Hazard Class(es):	3
Packing Group Number:	Unknown
Environmental Hazards:	N/A
International Bulk Chemical (IBC) Code:	N/A
Special precautions during transportation:	None

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 602 (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 a C.4.1, C.4.2 & C.4.3 Acute Toxicity - Oral, Dermal & Inhalation: Hazard Category 4, C.4.19 Flammable Liquids: Hazard Category 2. 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 following chemical(s) are subject to a Section 5(3) Consent Order for Significant New Use Rule (SNUR):

Chemical Name: No. 2 Diesel Fuel

CASRN: 68476-34-6

Percent in Composition: 100%

TSCA Section 8(b) - Inventory Status: The following chemical(s) are subject to TSCA Section 8(b):

Chemical Name: No. 2 Diesel Fuel

CASRN: 68476-34-6

Percent in Composition: 100%

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 22, 2013

Revision Date: N/A

Changes from previous version: N/A

Other useful information: None

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.