

Safety Data Sheet

Prepared for:

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

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Section 1: Identification

Identification of the chemical as well as the recommended uses and the essential contact information of the supplier.

Product Identifier: MF-55

Common Name(s): Polyacrylamide Mixture

Chemical Family: Polyacrylamide Mixture

Synonyms: -

Manufacturer, Importer, and/or Responsible Party Information

Name: Anchor Drilling Fluids USA, Inc.

Address: 2431 East 61st Street, Suite 710, Tulsa, Oklahoma 74136

Phone Number: 918.583.7701

Emergency Phone Number: CHEMTREC: 800.424.9300

Recommended Use of Chemical

Chemical Services: MF-55 is used in mud drilling production

Use Restrictions: None

Section 2: Hazard(s) Identification

Identification of the hazards of the chemical presented and the appropriate warning information associated with those hazards.

Hazard Classification: C.4.1, C.4.2 & C.4.3 Acute Toxicity – Oral, Dermal & Inhalation:
Hazard Category 4 & C.4.19 Flammable Liquids

Signal Word: Warning

Hazard Statement(s): Harmful if ingested, Harmful in contact with skin/eyes, Harmful if inhaled, Can cause damage to organs, Combustible Liquid

Pictogram(s):

Exclamation Mark



Precautionary Statement(s):

Oral: Wash thoroughly after handling. Do not eat, drink or smoke when using this product. If swallowed, rinse mouth and consult a physician. Dermal: Wear protective clothing. If on skin, wash with plenty of water. Consult a physician/poison center. Wash clothing before reuse. Inhalation: Avoid breathing dust/fumes/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. If inhaled, remove person to fresh air and keep comfortable breathing.

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

Note: this is a total percentage of the mixture and not tied to the individual ingredient(s).

Section 3: Composition/Information on Ingredients	
<i>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.</i>	
Substances	
This product is a mixture	
Mixture	
Chemical Names and Concentration:	Polyacrylamide Petroleum Distillate
Common Name:	Polyacrylamide Mixture
Synonym(s):	-
Chemical Abstract Service (CAS) Number:	9003-05-6 & 64741-44-2
Any other unique identifiers:	N/A
Impurities and stabilizing additives (which are themselves classified and which contribute to the classification of the chemical):	N/A
Recommended Use of Chemical	
Chemical Services:	MF-55 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	
<i>Description of the initial care that should be given by untrained responders to an individual who has been exposed to the chemical.</i>	
Necessary first-aid instructions	
Inhalation:	If symptoms develop or persist consult a physician.
Acute Symptoms of Inhalation:	None known
Delayed Symptoms of Inhalation:	Mild irritation
Skin Contact:	Flush with water; consult a physician if symptoms develop or persist
Acute Symptoms of Skin Contact:	Drying or Chapping of skin
Delayed Symptoms of Skin Contact:	None known
Eye Contact:	Flush eyes with water for at least 15 minutes, if irritation or adverse symptoms develop consult a physician
Acute Symptoms of Eye Contact:	Slight Irritation
Delayed Symptoms of Eye Contact:	None known
Ingestion:	Symptomatic treatment consult a physician
Acute Symptoms of Ingestion:	Possible gastric discomfort
Delayed Symptoms of Ingestion:	None known
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, Dry Chemical, CO₂, Alcohol Foam

Extinguishing equipment not appropriate: None

Specific hazards created from chemical burning: None known

Special protective equipment needed: None

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: Use chemical resistant gloves and chemical splash goggles

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 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: Avoid contact with eyes, skin or clothing and breathing vapors mist, fume or dust. Use protective gear.

Hygiene practices: Handle in accordance with good industrial hygiene and safety practices

Safe storage recommendation: Handle in accordance with good industrial hygiene and safety practices

Incompatible storage options: 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): None established

American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Values (TLVs): None established

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

Appropriate Engineering Controls: Natural or Mechanical ventilation to control exposure levels below airborne exposure limits.

Recommendations for personal protective measures: Use a NIOSH/MSHA approve air purifying respirator with an organic vapor cartridge when airborne concentrations are expected to exceed exposure limits

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:	Off-White
Odor:	Slight Hydrocarbon
Odor Threshold:	Not regulated
Vapor Pressure:	NDA
Vapor Density:	NDA
pH:	Neutral
Relative Density:	NDA
Melting Point:	NDA
Freezing Point:	NDA
Solubility(ies):	Soluble in water
Initial Boiling Point:	NDA
Boiling Range:	NDA
Flash Point:	>200° F
Evaporation Rate:	NDA
Flammability:	1
Upper/lower flammability or explosive limits:	NDA
Partition Coefficient:	NDA
Auto-Ignition Temperature:	NDA
Decomposition Temperature:	NDA
Viscosity:	NDA

Section 10: Stability and Reactivity

Description of the reactivity hazards of the chemical and the chemical stability information.

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:	None
Possibility of hazardous reactions:	Low
Will chemical react or polymerize:	No
Will chemical release pressure, heat, or any other hazardous conditions:	Yes
Conditions to avoid:	Incompatible storage
Class(es) of incompatible material(s):	Oxidizers
Known or anticipated hazardous decomposition products produced because of storage, use, or heating:	CO & CO2

Section 11: Toxicological Information	
<i>Identification of toxicological and/or health effects.</i>	
Likely routes of exposure:	Inhalation, Skin/Eyes, Ingestion
Delayed, immediate or chronic effects of short-term exposure:	May cause irritation and drying/chapping of skin
Delayed, immediate or chronic effects of long-term exposure:	None known
Numerical measurement of toxicity:	Health: 2, Flammability: 1, Reactivity: 0
Description of symptoms (lowest to most severe):	Irritation Dry/Chapped Skin
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)	
<i>Information to evaluate the environmental impact of the chemical if it were released to the environment.</i>	
Toxicity test results performed on aquatic and/or terrestrial organisms:	None known
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)	
<i>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)</i>	
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)	
<i>Guidance on classification information for shipping and transporting the chemical by road, air, rail or sea.</i>	
This product is not DOT/IMO regulated	

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 1910.120) 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. 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: This product is not subject to a Section 5(3) Consent Order for Significant New Use Rule (SNUR).

TSCA Section 8(b) - Inventory Status: All chemical(s) comprising this product are either exempt or not listed on the TSCA inventory.

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 21, 2013

Revision Date: N/A

Changes from previous version: N/A

Other useful information: None

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