

# Safety Data Sheet

Prepared for:

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

October 21, 2013

Section 1: Identification	
<i>Identification of the chemical as well as the recommended uses and the essential contact information of the supplier.</i>	
<b>Product Identifier:</b>	Kemdrill A-2703
<b>Common Name(s):</b>	N/A
<b>Chemical Family:</b>	Acrylic Polymer
<b>Synonyms:</b>	Sodium Polyacrylate – Cypan – Spar – ANCO Spa
Manufacturer, Importer, and/or Responsible Party Information	
<b>Name:</b>	Anchor Drilling Fluids USA, Inc.
<b>Address:</b>	2431 East 61 <sup>st</sup> Street, Suite 710, Tulsa, Oklahoma 74136
<b>Phone Number:</b>	918.583.7701
<b>Emergency Phone Number:</b>	CHEMTREC: 800.424.9300
Recommended Use of Chemical	
<b>Chemical Services:</b>	Kemdrill A-2703 is used in mud drilling operations
<b>Use Restrictions:</b>	N/A

## 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.4.3 Acute Toxicity - Inhalation: Hazard Category 4, C.4.1 Acute Toxicity - Oral: Hazard Category 4, C.4.2 Acute Toxicity – Dermal Hazard Category 4

**Signal Word:** Warning

**Hazard Statement(s):** Harmful if inhaled, Harmful if ingested, Harmful in contact with skin/eyes

**Pictogram(s):**

Exclamation Mark



<b>Precautionary Statement(s):</b>	<b>Prevention:</b>	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.
	<b>Response:</b>	<p><u><i>If inhaled:</i></u> Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell. Rinse Mouth.</p> <p><u><i>If swallowed:</i></u> Do not induce vomiting.</p> <p><u><i>If on skin:</i></u> Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. Immediately call a poison center/doctor. Specific treatment.</p> <p><u><i>If in eyes:</i></u> Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.</p>
	<b>Storage:</b>	Store in a well-ventilated place.
	<b>Disposal:</b>	Dispose of in accordance with local, state, regional, and federal regulations.

**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:** 5-10%

*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		
Mixtures		
<b>Chemical Names and Concentrations:</b>	<b>Chemical</b>	<b>Concentration</b>
	Sodium Acrylate-Acrylamide Copolymer	90-95%
<b>Common Name:</b> Kemdrill A-2703		
<b>Synonym(s):</b> N/A		
<b>Chemical Abstract Service (CAS) Number:</b>	<b>Chemical</b>	<b>CAS #</b>
	Sodium Acrylate-Acrylamide Copolymer	25085-02-3
<b>Any other unique identifiers:</b> None		
<b>Impurities and stabilizing additives (which are themselves classified and which contribute to the classification of the chemical):</b> None		
Recommended Use of Chemical		
<b>Chemical Services:</b> Kemdrill A-2703 is used in mud drilling operations		
<b>Use Restrictions:</b> N/A		
Trade Secret		
<b>Is the specific chemical identity and/or exact concentration of composition withheld as a trade secret?</b> 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	
<b>Inhalation:</b>	Remove to fresh air, if not breathing give artificial respiration. If breathing is difficult, give oxygen and get medical attention
<b>Acute Symptoms of Inhalation:</b> May cause irritation and/or difficulty breathing	
<b>Delayed Symptoms of Inhalation:</b> None known	
<b>Skin Contact:</b>	Immediately wash skin with plenty of water for 15 minutes. If clothing is contaminated remove and launder before reuse and see a physician if symptoms develop or persist
<b>Acute Symptoms of Skin Contact:</b> May cause irritation	
<b>Delayed Symptoms of Skin Contact:</b> None known	
<b>Eye Contact:</b>	Immediately flush eye(s) with lukewarm, gently flowing water for 15 minutes or until the chemical is removed. See a physician if symptoms develop or persist
<b>Acute Symptoms of Eye Contact:</b> May cause irritation	
<b>Delayed Symptoms of Eye Contact:</b> None known	
<b>Ingestion:</b> Consult a physician	
<b>Acute Symptoms of Ingestion:</b> None known	
<b>Delayed Symptoms of Ingestion:</b> None known	
Immediate Medical Care / Special Treatment	
<b>Is immediate medical care or special treatment required?</b> No	
<b>If so, what is needed:</b> N/A	

### Section 5: Fire-Fighting Measures

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

**Suitable Extinguishing Equipment:** Water

**Extinguishing equipment not appropriate:** None

**Specific hazards created from chemical burning:** None known

**Special protective equipment needed:** None known

### 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 protective gloves and clothing, wear splash proof chemical goggles, use NIOSH approved respirator as needed to mitigate exposure

**Emergency Procedure(s):** Immediately contain spill and stop spill at source

**Method(s) and material(s) used for containment:** Absorb, contain and place in a chemical waste container

**Cleanup procedure(s):** Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container

### Section 7: Handling and Storage

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

**Handling precautions:** Use good industrial practices, avoiding eye, skin and clothing contact. Do not inhale taste or swallow. Use only in well ventilated areas and keep containers in tightly closed cool, dry, well-ventilated places

**Hygiene practices:** Ordinary hygiene and do not reuse contaminated clothing until it has been washed

**Safe storage recommendation:** Keep in a tightly closed container

**Incompatible storage options:** Strong oxidizing agents

### 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):** N/A

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

**Appropriate Engineering Controls:** Local exhaust-Mechanical Recommended

**Recommendations for personal protective measures:** Impervious gloves, chemical goggles and face shield, NIOSH approved respiratory protection for organic vapors

**Special requirements of PPE, protective clothing or respirators:** Chemical resistant apron or protective suit if splashing or repeated contact with solution is likely.

### Section 9: Physical and Chemical Properties

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

<b>Appearance (Physical State):</b>	Powder
<b>Color:</b>	Off White
<b>Odor:</b>	No Appreciable Odor
<b>Odor Threshold:</b>	Not regulated
<b>Vapor Pressure:</b>	NDA
<b>Vapor Density:</b>	NDA
<b>pH:</b>	NDA
<b>Relative Density:</b>	NDA
<b>Melting Point:</b>	NDA
<b>Freezing Point:</b>	NDA
<b>Solubility(ies):</b>	Soluble in water
<b>Initial Boiling Point:</b>	NDA
<b>Boiling Range:</b>	NDA
<b>Flash Point:</b>	NDA
<b>Evaporation Rate:</b>	NDA
<b>Flammability:</b>	0
<b>Upper/lower flammability or explosive limits:</b>	NDA
<b>Partition Coefficient:</b>	NDA
<b>Auto-Ignition Temperature:</b>	NDA
<b>Decomposition Temperature:</b>	NDA
<b>Viscosity:</b>	NDA

### Section 10: Stability and Reactivity

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

Reactivity	
<b>Description of specific test data:</b>	None
Chemical Stability	
<b>Is the chemical stable or unstable:</b>	Stable
<b>Stabilizers needed to maintain chemical stability:</b>	None
<b>Safety issues that may arise should the chemical change in physical appearance:</b>	None known
Other	
<b>Conditions in which hazardous reactions may occur:</b>	None known
<b>Possibility of hazardous reactions:</b>	Low
<b>Will chemical react or polymerize:</b>	No
<b>Will chemical release pressure, heat, or any other hazardous conditions:</b>	No
<b>Conditions to avoid:</b>	None known
<b>Class(es) of incompatible material(s):</b>	Strong Oxidizing Agents
<b>Known or anticipated hazardous decomposition products produced because of storage, use, or heating:</b>	Carbon Monoxide, Carbon Dioxide and Oxides of Nitrogen may form in fire conditions

Section 11: Toxicological Information	
<i>Identification of toxicological and/or health effects.</i>	
<b>Likely routes of exposure:</b>	Inhalation, Skin, Ingestion, Eyes
<b>Delayed, immediate or chronic effects of short-term exposure:</b>	None known
<b>Delayed, immediate or chronic effects of long-term exposure:</b>	None known
<b>Numerical measurement of toxicity:</b>	Health: 1 Flammability: 0 Reactivity: 0
<b>Description of symptoms (lowest to most severe):</b>	Mild to Severe Irritation
<b>Is chemical listed in the National Toxicology Program (NTP) Report on Carcinogens:</b>	No
<b>Has chemical been found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs:</b>	No
<b>Has chemical been found to be a potential carcinogen by OSHA:</b>	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>	
<b>Toxicity test results performed on aquatic and/or terrestrial organisms:</b>	Mortality
<b>Does the chemical have the potential to degrade the environment (biodegradation, oxidation, hydrolysis, etc.):</b>	Yes
<b>Bioaccumulation test results:</b>	None
<b>Potential of chemical moving from soil to the groundwater:</b>	High due to water solubility
<b>Other adverse effects:</b>	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>	
<b>Appropriate disposal containers:</b>	Original container or any in accordance with local, state and federal regulations
<b>Appropriate disposal methods:</b>	Dispose of in accordance with local, state and federal regulations
<b>Physical and chemical properties that may affect disposal activities:</b>	None
<b>Special precautions for landfills or incineration activities:</b>	No
<b>Is it advisable to utilize sewage disposal for this chemical:</b>	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 a DOT/IMO Hazardous Material	

## 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.4.3 Acute Toxicity - Inhalation: Hazard Category 4, C.4.1 Acute Toxicity - Oral: Hazard Category 4, C.4.2 Acute Toxicity – Dermal Hazard Category 4. 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

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.