Safety Data Sheet

ProDrill

Last Revised Apr '16

Supercedes Version

Section 1. Product and Company Identification

Product ID/Product Name	**ProDrill**
Recommended Use	**Shale Stabilizer for Water-based mud**
Supplier Information	**ProAction Fluids 9706 St. Vincent Ave Shreveport, LA 71106**
In case of emergency	**(866)-290-5029**

Section 2. Hazards Identification

GHS Classification

Health Hazards	
Acute Toxicity	Category 5
Skin Corrosion/Irritation	Category 3
Skin Sensitizer	None
Eye Damage/Eye Irritation	Category 2A

GHS Labels:

Signal Word:

WARNING!

Physical Hazards	
Flammable Liquid	Category 4

WHMIS Classification:

Class D, Division 2, Subdivision B

Class B, Division 3

Hazard Statements	
H227	Combustible liquid
H302	Harmful if swallowed
H312	Harmful in contact with skin
H332	Harmful if inhaled

Precautionary Statements	
P210	Keep away from open flame
P262	Do not get in eyes, on skin, or on clothing
P264	Wash… thoroughly after handling
P261	Avoid breathing vapor or mist

Section 3. Composition / Information on Ingredients

Ingredient(s)	CAS #	EINECS #	Concentration %
Distillates (Petroleum), Hydrotreated Light	64742-47-8	265-149-8	30-50%
Anionic Polyacrylamide	9003-05-8	-	50-70%

Comments: Certain ingredients and/or specific chemical identities may be withheld as a trade secret under the provisions of OSHA Hazard Communication Standard: 29 CFR 1910.1200.

Section 4. First Aid Measures

Eye Contact	Rinse immediately with plenty of water for at least 15 mintues
Skin Contact	Wash with plenty of water. If pain or irritation persists after washing, seek medical aid
Inhalation	Remove to fresh air. If breathing is difficult, give oxygen
Ingestion	If swallowed, seek medical attention immediately. Do not induce vomiting.

Section 5. Firefighting Measures

Suitable Extinguishing Media	Dry chemical, CO2, Water fog
Unsuitable Extinguishing Media	Water jet
Hazards Arising From The Chemical	Carbon oxides
Protective Actions For Fire-Fighters	Approved protective equipment, as well as a self-contained breathing apparatus

Section 6. Accidental Release Measures

Personal Precautions And Protective Equipment	Wear appropriate personal protection equipment, including impermeable boots
Environmental Precautions	Prevent spill from entering sewers, waterways, or low areas
Methods And Materials for Containment and Clean Up	Absorb spill into an inert material and scoop up. Flush spill area with copious amounts of water

Section 7. Handling and Storage

Handling Precautions	Avoid contact with eyes, skin, and clothing. Wash thoroughly after handling
Storage Conditions	Do not use iron, copper, or aluminum containers or equipment, to avoid product degradation

Section 8. Exposure Controls / Personal Protection

Occupational Exposure Limit(s)	**Ingredient**	**CAS #**	**Exposure Limit**
	-	-	-
	-	-	-

Engineering Controls	General ventilation is recommended
Personal Protection Measures	Wear chemical eye/face protection. Wear gloves suitable for handling chemicals. If necessary, use an appropriate respirator

Section 9. Physical and Chemical Properties

Physical State	Liquid	**Flammability**	N/D
Colour	White	**Flammability LEL/UEL**	N/D
Odour	Ammonia	**Viscosity @ 25°C (cSt)**	N/D
Odour Threshold	N/D	**Vapour Pressure (@ 25°C)**	N/D
pH	6.0-7.0	**Vapour Density [Air = 1]**	N/D
Melting Point (°C/°F)	N/D	**Relative Density**	8.21
Freezing Point (°C/°F)	N/D	**Solubility**	Soluble in WAter
Boiling Point (°C/°F)	N/D	**Auto-Ignition Temperature**	N/D
Flash Point (°C/°F)	>200-F	**Decomposition Temperature**	N/D
Specific Gravity @ 25°C	0.985	**(Other)**	

Section 10. Stability and Reactivity

Chemical Reactivity/Stability	Stable under normal conditions
Conditions to Avoid	All possible sources of ignition
Incompatible Materials	Oxidizing agents
Hazardous Decomposition Products	Ammonia

Section 11. Toxicological Information

Likely Routes of Exposure	Eye contact, Dermal

	Acute Symptoms / Effects	**Chronic Symptoms / Effects**
Eye Contact	May cause burning of the eyes	Not Determined
Skin Contact	May cause mild skin burns	Not Determined
Inhalation	Can cause respiratory irritation	Prolonged exposure may cause teeth errosion
Ingestion	Can cause burns of the mouth, throat, and stomach	Not Determined

Germ Cell Mutagenicity/Carcinogenicity/Reproductive Toxicity/STOT	Not Determined

Ingredient	**Numerical Measures of Toxicity**
Distillates (Petroleum), Hydrotreated Light	LD50 Dermal (rabbit): >2000 mg/kg
	LD50 Oral (rat): >5000 mg/kg

Petroleum distillates, hydrotreated light (CAS# 64742-47-8) has acute oral (rat) and dermal (rabbit) LD50 values of >5 g/kg and >3.16 g/kg respectively. Prolonged or repeated skin contact tends to remove skin oils, possibly leading to irritation and dermatitis. Direct contact may cause eye irritation. Overexposure to high vapor concentrations, >~700 ppm, are irritating to the eyes and respiratory tract and may cause headaches, dizziness, drowsiness, and other central nervous system effects, including death. Aspiration of minute amounts during ingestion or vomiting may cause mild to severe pulmoary injury and possibly death. In a 90-day oral gavage (rats) study at 100, 500, or 1000 mg/kg, no treatment-related mortalities were observed. There were no significant changes in body weights or food consumption in any dose groups. Increased liver weights were observed in male and female rats at 500 and 1000 mg/kg. Increased kidney weights were observed only in male rats at 500 and 1000 mg/kg. Testes weights were significantly elevated in male rats at 1000 mg/kg. Kidney effects, indicative of light hydrocarbon nephropathy, occured in male rat kidneys at all dose levels. Histological findings of hepatocellular hypertrophy were seen in the livers of male rats at 1000 mg/kg and in female rats at 500 and 1000 mg/kg. All treatment-related effects were reversible within the 4-week recovery period. Observed kidney effects (including light hydrocarbon nephropathy and increased kidney weight) are a unique response by male rats to chronic hydrocarbon exposure, which the U.S. EPA has declared 'not relevant to humans'. High-dose liver effects (including hepatocellular hypertrophy, or enlarged liver cells) are a direct consequence of the sustained high-fat 'hydrocarbon diet'. The No Observed Adverse Effect Level (NOAEL) for this study was 1000 mg/kg.

Section 12. Ecological Information

Toxicity	Not Determined
Persistence/Degradability	Not Determined
Mobility in Soil	Not Determined
Bioaccumulative Potential	Not Determined

Section 13. Waste Disposal Considerations

Follow all local and national waste management regulations. Consult your local waste authorities for information.

Section 14. Transport Information

U.S. D.O.T. (Non-Bulk Transport)		**U.S. D.O.T. (Bulk Transport)**	
UN Number	Not Regulated	**UN Number**	3082
UN Proper Shipping Name	Not Regulated	**UN Proper Shipping Name**	Other regulated substances, liquid, n.o.s. (Ammonium acetate)
Hazard Class/Packing Group	Not Regulated	**Hazard Class/Packing Group**	9/III
Environmental Hazards	Not Regulated	**Environmental Hazards**	N/A
Special Precautions	None		

Section 15. Regulatory Information

Precautionary Label Information

	HMIS	**NFPA**	**Risk Phrases**		**Safety Phrases**	
Health	1	1	R20	Harmful by inhalation	S16	Keep away from sources of ignition
Flammability	1	1	R22	Harmful if swallowed	S15	Keep away from heat
Reactivity	0	0	R38	Irritating to skin	S23	Do not breathe gas/fumes
Protection	B	B	R65	Ingestion may cause lung damage	S25	Avoid contact with eyes
Hazard Symbol(s)					S29	Do not empty into drains
Xi, Xn						

Section 16. Other Information

Specification Information

Department/Person Responsible for Content	Nathan R. Hutchings, Ph.D.
Email Address	info@proactionfluids.com
Training Required for Use of Product	None
Intended Use of Product	Oilfield Completion Fluid
Reason for last reissue of SDS	New product

This product is intended of use by skilled individuals familiar with the intended use and application of the product. Product users do so at their own risk. The information contained herein is based on data considered to be accurate based on the current state of available knowledge. No warranty is expressed or implied regarding the accuracy of the data herein or the results to be obtained by the use thereof.

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