

MATERIAL SAFETY DATA SHEET



NEW-DRILL

Drilling Fluids

1. Product and Company Identification

Material name	NEW-DRILL
Chemical description	Anionic Polyacrylamide Copolymer Emulsion
Applications	Shale Stabilizer
Supplier	Baker Hughes Drilling Fluids 2001 Rankin Rd. Houston, TX 77073 Emergency telephone number 713-439-8900

2. Composition / Information on Ingredients

Components	CAS #	Percent
PETROLEUM DISTILLATES, HYDROTREATED LIGHT	64742-47-8	20 - 40
Non-hazardous and other components below reportable levels		60 - 80
Composition comments	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.	

3. Hazards Identification

Emergency overview	May be ignited by heat, sparks or flames. Harmful: may cause lung damage if swallowed. Contact with skin can cause irritation and allergic reaction (sensitization) in some individuals.
Potential health effects	
Routes of exposure	Ingestion. Inhalation.
Eyes	Contact with eyes may cause irritation.
Skin	Substance causes moderate skin irritation.
Inhalation	Do not breathe vapor. May cause breathing disorders and lung damage.
Ingestion	Harmful: may cause lung damage if swallowed.

4. First Aid Measures

First aid procedures	
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation develops or persists.
Skin contact	Remove and isolate contaminated clothing and shoes. Wash off with soap and water. Launder contaminated clothing before reuse. Get medical attention if irritation develops or persists.
Inhalation	Move to fresh air. If breathing is difficult, give oxygen. Call a physician if symptoms develop or persist.
Ingestion	If swallowed, seek medical advice immediately and show this container or label. Do not induce vomiting without medical advice.
Notes to physician	Symptoms may be delayed.
General advice	Keep victim warm. Keep victim under observation. If you feel unwell, seek medical advice (show the label where possible).

5. Fire Fighting Measures

Extinguishing media	
Suitable extinguishing media	Water spray, dry chemical, carbon dioxide.
Protection of firefighters	
Protective equipment for firefighters	Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask. Move containers from fire area if you can do it without risk.

6. Accidental Release Measures

Evacuation procedures	Stay upwind. Keep out of low areas. Keep unnecessary personnel away. Local authorities should be advised if significant spillages cannot be contained.
-----------------------	--

Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system.
Methods for cleaning up	Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.

7. Handling and Storage

Handling	Do not breathe gas/fumes/vapor/spray. Avoid contact with skin and eyes. Wash hands after handling and before eating.
Storage	Keep away from heat, sparks, and flame. Keep containers tightly closed in a dry, cool and well-ventilated place.

8. Exposure Controls / Personal Protection

Engineering controls	Provide local and general exhaust ventilation to effectively remove and prevent buildup of any vapors or mists generated from the handling of this product.
Personal protective equipment	
Eye / face protection	Wear safety glasses with side shields (or goggles) and a face shield.
Skin protection	Use of protective coveralls and long sleeves is recommended. Use of an impervious apron is recommended. Use of impervious boots is recommended.
Hand protection	Impervious gloves.
Respiratory protection	If ventilation is not sufficient to effectively prevent buildup of aerosols or mists, appropriate NIOSH/MSHA respiratory protection must be provided.
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and immediately after handling the product. Keep away from food and drink. When using do not smoke.

9. Physical and Chemical Properties

Appearance / Color / Form	Viscous. White. Liquid.
Odor	Hydrocarbon-like.
Clarity	Not available
Odor threshold	Not available
Physical state	Liquid
pH	Not available
Melting point	-0.4 °F (-18 °C)
Freezing point	Not available
Boiling point	347 °F (175 °C)
Flash point	> 199.4 °F (> 93 °C)
Evaporation rate	< 1
Flammability limits in air, lower, % by volume	Not available
Flammability limits in air, upper, % by volume	Not available
Vapor pressure	Not available
Vapor density	Not available
Specific gravity	1
Relative density	3.2996 estimated
Solubility	Partially soluble in water.
Octanol/H₂O coeff	Not available
Auto-ignition temperature	Not Available
Decomposition temperature	Not available
VOC (Weight %)	0.78 % estimated
Percent volatile	70

10. Chemical Stability and Reativity Information

Chemical stability	Stable at normal conditions.
Incompatible materials	Strong oxidizing agents, iron, copper, and aluminum.
Hazardous decomposition products	Upon decomposition, this product may yield oxides of nitrogen and ammonia, carbon dioxide, carbon monoxide and other low molecular weight hydrocarbons.
Possibility of hazardous reactions	Will not occur.

11. Toxicological Information

Acute effects	Acute LD50: 52400 mg/kg, Rat, Oral
Chronic effects	Prolonged or repeated exposure may cause lung injury. Repeated or prolonged skin contact may cause skin irritation and/or dermatitis and sensitization of susceptible persons.

12. Ecological Information

Ecotoxicity	This material is not expected to be harmful to aquatic life.
Persistence / degradability	According to the results of tests of biodegradability this product is not readily biodegradable.
Bioaccumulation / accumulation	Not expected to bioaccumulate.

13. Disposal Considerations

Disposal instructions	Dispose in accordance with all applicable regulations. Do not dispose of waste into sewer.
------------------------------	--

14. Transport Information

Department of Transportation (DOT) Requirements

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

15. Regulatory Information

US federal regulations	All components are on the U.S. EPA TSCA Inventory List. CERCLA/SARA Hazardous Substances - Not applicable.
-------------------------------	---

Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous chemical Yes

CERCLA (Superfund) reportable quantity None

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes
Delayed Hazard - No
Fire Hazard - Yes
Pressure Hazard - No
Reactivity Hazard - No

Section 302 extremely hazardous substance No

Section 311 hazardous chemical Yes

Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (CCS)	Yes
Europe	European Inventory of New and Existing Chemicals (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Japanese Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Korean Inventory of Chemicals (KICS)	Yes
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

International regulations The product is classified and labelled in accordance with EC directives or respective national laws.

State regulations This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

16. Other Information

HMIS ratings

Health: 2
Flammability: 1
Physical hazard: 0
Personal protection: D

NFPA ratings

Health: 2
Flammability: 1
Instability: 0

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

US preparer

Cheryl Hood - (713)625-4888

Issue date

09-19-2005