



MATERIAL SAFETY DATA SHEET

MSDS # 67-L13

Rock Drill 32 w/EMULSIFIER
Rock Drill 46 w/EMULSIFIER
Rock Drill 68 w/EMULSIFIER
Rock Drill 100 w/EMULSIFIER

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

TRADE NAME:	Rock Drill Oil	Hazard Ranking	
EMERGENCY PHONE:	CHEMTREC – (800) 424-9300 or (703) 527-3887 (collect)	HMIS	NFPA
SUPPLIER:	Sinclair Oil Corporation P.O. Box 30825 Salt Lake City, Utah 84130	Health	1 1
		Fire	1 1
		Reactivity	0 0
TELEPHONE / FAX:	(888) 340-3466 / (801) 524-2740		

2. COMPOSITION, INFORMATION ON INGREDIENTS

No hazardous ingredients as defined by 29 CFR 1910.1200

3. HAZARDS IDENTIFICATION

APPEARANCE: Light amber colored

PHYSICAL STATE: liquid

ODOR: Mild petroleum odor

EMERGENCY OVERVIEW: Non-Hazardous

POTENTIAL HEALTH EFFECTS: Practically non-toxic

INHALATION: Under normal conditions a respirator is not required. If exposure exceeds the occupational limits, follow OSHA standards and wear proper NIOSH approved respiratory equipment.

EYE CONTACT: Mild irritant

SKIN CONTACT: Prolonged or repeated skin contact may cause irritation.

INGESTION: Generally low toxicity.

CHRONIC: Prolonged and/or frequent contact may cause drying, cracking (dermatitis). This material contains triethanolamine, which may cause sensitization and allergic skin reaction in a small number of individuals.

4. FIRST AID MEASURES

INHALATION: Remove from further exposure. If unconsciousness occurs, seek immediate medical assistance.

EYE CONTACT: Flush immediately with water for at least 15 minutes. Seek medical attention if irritation persists.

SKIN CONTACT: Wash contact areas with soap and water. Launder contaminated clothing before reuse.

INGESTION: DO NOT INDUCE VOMITING unless directed by a physician. If unconscious, prevent aspiration of vomitus by placing face down in prone position with head turned to one side. Obtain immediate medical advice and/or attention.

INJECTION: Seek medical aid.

5. FIRE FIGHTING MEASURES

FLASH POINT: Rock Drill 32 = 417°F (ASTM D-92)
FLASH POINT: Rock Drill 46 = 421°F (ASTM D-92)
FLASH POINT: Rock Drill 68 = 439°F (ASTM D-92)
FLASH POINT: Rock Drill 100 = 468°F (ASTM D-92)

FLAMMABLE LIMITS: Not Determined

AUTOIGNITION TEMPERATURE: Not Determined

FLAMMABILITY CLASSIFICATION: NFPA Flammability =1

GENERAL HAZARD: Non-hazardous

FIRE FIGHTING INSTRUCTIONS: Use self-contained breathing apparatus with full-face piece and protective clothing. Use water spray to cool fire-exposed containers.

FIRE FIGHTING MEDIA: CO₂, dry chemical, foam, water fog, (water may cause frothing)

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of carbon

6. ACCIDENTAL RELEASE MEASURES

SPILL PROCEDURES:

- Remove sources of heat or ignition.
- Provide adequate ventilation .
- Small Spills: Take up with noncombustible absorbent such as fullers earth or sand. Place into containers for later disposal. Keep spill out of all sewers and open bodies of water.
- Large Spills: Contain spill in earthen dikes for later recover. Control ignition sources around spill area. Report spills as required to appropriate authorities. Report spill to Coast Guard toll free number (800) 424-8802 for spills that could reach any waterway including intermittent dry creeks. In case of accident or road spill notify Sinclair Oil Corporation at (888) 340-3466 or Chemtrec Emergency Spill (800) 365-7300

7. HANDLING AND STORAGE

STORAGE / HANDLING: Store below 150°F. Keep container tightly closed and away from heat and flame. Keep separate from strong oxidizing agents. Use proper bonding and/or grounding procedures. Store in well ventilated area.

8. EXPOSURE CONTROLS, RESPIRATORY & PERSONAL PROTECTION

ENGINEERING CONTROLS: Normal room ventilation.

PERSONAL PROTECTION:

PROTECTIVE CLOTHING: Wear body-covering work clothes to avoid prolonged or repeated exposure. Launder soiled work clothes before reuse. Safety goggles, or chemical splash goggles if splashing is anticipated. Wear oil impervious gloves if frequent or prolonged contact is expected.

RESPIRATOR: None required under normal conditions of use.

OCUPATIONAL EXPOSURE LIMITS

COMPONENT	LIMIT	TWA	STEL	CEILING	NOTATION	OTHER
Oil mist	OSHA PEL	5mg/M ³				
Oil mist	ACGIH TLV	5mg/M ³	10mg/M ³			

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE/PHYSICAL STATE: Liquid

COLOR: light amber colored

API Gravity (Rock Drill 32) : 32.2

API Gravity (Rock Drill 46) : 30.9

Specific Gravity (H₂O=1) for Rock Drill 68 = 0.8735 @ 60 degrees F

Specific Gravity (H₂O=1) for Rock Drill 100 = 0.8816 @ 60 degrees F

VAPOR DENSITY (air=1): NA

VAPOR PRESSURE: NA

SOLUBILITY IN WATER: Negligible

VISCOSITY (Rock Drill 32) @104°F: 31.8 centistokes

VISCOSITY (Rock Drill 46) @104°F: 46.6 centistokes

VISCOSITY (Rock Drill 68) @104°F: 67.6 centistokes

VISCOSITY (Rock Drill 100) @104°F: 99.5 centistokes

EVAPORATION RATE: Negligible

10. STABILITY AND REACTIVITY

GENERAL: This product is stable at room temperature and pressure.

INCOMPATIBLE MATERIALS AND CONDITIONS TO AVOID: Avoid heat, flame, strong oxidants, and strong acids

HAZARDOUS DECOMPOSITION: Smoke, Oxides of carbon, oxides of nitrogen will be formed under combustion conditions.

11. TOXICOLOGICAL INFORMATION

Slight eye or skin irritation.

The acute Oral LD50 in rats is >5 g/kg based on component data

12. DISPOSAL INFORMATION

To determine the proper method of disposal, refer to RCRA (40 CFR 261), as well as federal EPA and state and local regulations. Conditions of use may cause this material to become a "Hazardous Waste", as defined by state or federal laws. Use approved treatment, transporters, and disposal sites in compliance with all applicable laws.

13. TRANSPORT INFORMATION

DOT (Department of Transportation):

PROPER SHIPPING NAME: Petroleum Lubrication Oil (Non-regulated)

HAZARD CLASS: Non-Hazardous (Not regulated by US DOT)

IDENTIFICATION NUMBER: None

14. REGULATORY INFORMATION

Section 313 (Title III Superfund Amendment and Reauthorization Act):

This product contains the following chemical (s) subject to the reporting of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

United States (TSCA) Triethanolamine
United States (SARA 311 Classifications)

Acute Hazard	Yes
Chronic Hazard	No
Fire Hazard	No
Reactivity Hazard	No

Cal. Prop 65 : This product contains the following chemicals known to the state of California to cause cancer and/or birth defects based upon impurity levels of components: toluene <1 ppm, 2-propenoic acid, ethyl ester.

15. OTHER INFORMATION

REVISION SUMMARY:

Complete review of MSDS, December 2006.

THIS PRODUCT MATERIAL SAFETY DATA SHEET PROVIDES HEALTH AND SAFETY INFORMATION. THE PRODUCT SHOULD BE USED IN APPLICATIONS CONSISTENT WITH THIS PRODUCT LITERATURE. FOR ANY OTHER USES, EXPOSURES SHOULD BE EVALUATED SO THAT APPROPRIATE HANDLING PRACTICES AND TRAINING PROGRAMS CAN BE ESTABLISHED TO ENSURE SAFE WORKPLACE OPERATIONS.

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DATE: December 2006