1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Rock Drill Oil
Product Code: 966
Chemical Name: Petroleum Oil; Lube Oil, Petroleum Hydrocarbon, Lubricant
Recommended Use: Rock Drill Lubricant
Manufacturer: Scot Lubricants LLC
6 Horwith Drive
Northampton, PA 18067
Emergency Telephone Numbers: 484-619-1393
Information: 484-275-7990 8am-5pm EST M-F

2. HAZARD IDENTIFICATION

This material is not considered hazardous by OSHA Hazard Communication Standard 29 CFR 1910.1200
Classification of the substance or mixture **Not Classified.**
GHS label elements
Hazard Pictograms: Non Required
Signal word No Signal Word Not Hazardous
Hazard Statements No know significant effects or critical hazards
Precautionary statements
P273 Avoid release into the environment.
P391 Collect Spillage
P501 Dispose of contents/container in accordance with local, regional, national and international regulations.
Other Hazards
The mixture consists of substances capable of producing an aspiration hazard. Aspiration may result in chemical pneumonia (fluid in the lungs), severe lung damage, respiratory failure, and even death.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Wt. Percent	Component	Synonym	CAS#
0-90	Highly refined petroleum lubricating oil	Lubricating oil base stock	Various*
0-0.05	Mineral Oil	Not Available	Mixture
0-0.05	Alkyl phosphate	Not Available	Proprietary
0.0.05	Long-chain alkyl amine	Not Available	Proprietary
0-0.05	Long-chaine alkenyl amine	Not Available	Proprietary

Component Related Regulatory Information
*Highly refined petroleum lubricating oil contains one or more CAS numbers listed as follows:
64741-88-4, 64742-52-5, 64742-54-7, 64742-55-8, 64742-65-0, 64742-57-0, 64742-01-4, 64742-62-7, 72623-88-7

4. FIRST AID MEASURES

INHALATION: Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Oxygen should only be administered by qualified personnel. Someone should stay with victim. Get medical attention if breathing difficulty persists.
EYE CONTACT: If irritation or redness from exposure to vapor develops, move away from exposure into fresh air. Upon contact, flush with lukewarm water, holding eyelids apart for 15 minutes. If irritation persists, obtain medical assistance.
SKIN CONTACT: Remove affected clothing and shoes. Wash with soap and water. Get medical attention if irritation or pain develops or persists. If product is injected under pressure into or under the skin, or into any part of the body, regardless of the appearance of the wound or its size, a physician should immediately evaluate the individual as a medical emergency. Wash clothing before reuse.
INGESTION: **Do NOT** induce vomiting. Immediately get medical attention. If spontaneous vomiting occurs, keep head below hips to avoid breathing the product into the lungs. Never give anything to an unconscious person by mouth.

NOTE TO PHYSICANS: Treat symptomatically and supportively. Treatment may vary with condition of victim and specifics of incident.

5. Fire Fighting Measures

FLASHPOINT (METHOD): 4505°F (232°C) Minimum Cleveland Open Cup
FLAMMABLE LIMITS IN AIR: Not Available
AUTO-IGNITION TEMP: Not Available
EXTINGUISHING MEDIA: Carbon dioxide (CO2), regular foam, dry chemical, water spray, or water fog. Water or foam may cause frothing.
CONDITIONS OF FLAMMABILITY: Sparks or flame. Product may burn, but does not ignite readily.
HAZARDOUS COMBUSTION PRODUCTS: Decomposition and combustion material may be toxic. Burning may product sulfur oxides, aldehydes, ketones, carbon monoxide and unidentified organic compounds.

HAZARD RATING	**NFPA 704 HAZARD IDENTIFIACTION**	
0= LEAST	HEALTH HAZARD (BLUE)	1
1=SLIGHT	FIRE HAZARD (RED)	1
2=MODERATE	REACTIVITY (YELLOW)	0
3=HIGH	SPECIFIC HAZARD (WHITE)	
4=EXTREME		

FIRE FIGHTING INSTRUCTIONS: Keep storage containers cool with water spray. A positive-pressure, self-contained breathing apparatus (SCBA) and full- body protective equipment are required for fire emergencies.
FIRE AND EXPLOSION HAZARDS: Heated containers may rupture. "Empty" containers may retain residue and can be dangerous. Products are not sensitive to mechanical impact or static discharge.

6. Accidental Release Measures

Remove all ignition sources. Do not touch or walk through spilled product. Stop leak if you can do it without risk. Wear protective equipment and provide engineering controls a specified in Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Ventilate area and avoid breathing vapor or mist. Contain spill away from surface water and sewers. Contain spill as a liquid for possible recovery, or sorb with compatible sorbent material and shovel with a clean spark-proof tool into a sealable container for disposal. For large spills: Dike far ahead of liquid spill for collection and later disposal.

7. Handling and Storage

HANDLING: Keep away from sparks or flame. Where flammable mixtures may be present, equipment safe for such locations should be used. Use clean tools. When transferring large volumes of product, metal containers, including trucks and tank cars, should be grounded and bonded. This product has a low vapor pressure and is not expected to present an inhalation hazard under normal temperatures and pressures. However, when aerosolizing, misting, or heating, this product, do not breathe vapor or mist. Use in a well-ventilated area. Avoid contact with eyes, skin clothing and shoes.
SHIPPING AND STORING: Keep container tightly closed when not in use and during transport. Store containers in a cool, dry place. Do not pressurize, cut weld, braze, solder, drill or grind containers. Keep containers away from flame, sparks, static electricity, or other sources of ignition. Empty product containers may retain residue and can be dangerous.

8. Exposure Controls/Personal Protection

EXPOSURE GUIDELINES:

COMPONENT EXPOSURE LIMITS

Highly Refined Petroleum Lubricating Oil

ACGIH: 5mg/m^3 TWA (sampled by method that does not collect vapor) (related to Oil mist, mineral)
10 mg/m^3 STEL (sampled by method that does not collect vapor) (related to Oil mist, mineral)

OSHA Final: 5 mg/m^3 TWA (related to Oil mist, mineral)
OSHA Vacated:5mg/m^3 TWA (related to Oil Mist, mineral)
NIOSH: 5mg/m^3 TWA (related to Oil Mist, mineral)
10mg/m^3 STEL (related to Oil mist, mineral)

MINERAL OIL

ACGIH: 5mg/m^3 TWA (sampled by method that does not collect vapor) (related to Oil mist, mineral)
10 mg/m^3 STEL (sampled by method that does not collect vapor) (related to Oil mist, mineral)
OSHA Final: 5 mg/m^3 TWA (related to Oil mist, mineral)

ENGINEERING CONTROLS: Provide general ventilation needed to maintain concentration of vapor or mist below applicable exposure limits. Where adequate general ventilation is unavailable, use process enclosures, local exhaust ventilation or other engineering controls to control airborne levels below applicable exposure limits.

PERSONAL PROTECTIVE EQUIPMENT —

EYE: Where eye contact is likely, wear safety glasses; contact lens are not recommended.

SKIN: Where skin contact is likely, wear neoprene, nitrile or equivalent protective gloves; use of natural rubber or equivalent gloves is not recommended. When product is heated and skin contact is likely, wear heat-insulating gloves, boots, and other protective clothing. Avoid prolonged or repeated contact where spills and splashes are likely, wear appropriate chemical-resistant face shield, boots, apron, coveralls, long sleeve shirts, or other protective clothing.

RESPIRATOR: No respiratory protection is normally required. Use NIOSH-certified P- or R- series particulate filter and organic vapor cartridges when concentration of vapor or mist exceeds applicable exposure limits. Protection provided by air purifying respirators is limited. Do not us N-rated respirators. Selection and use of respiratory protective equipment should be in accordance in the USA with OSHA General Industry Standard 29 CFR 19010.134; or in Canada with CSA Standard Z94.4. Consult a qualified Industrial Hygienist or Safety Professional for respirator selection guidance. Concentration in air determines protection needed.

PERSONAL HYGIENE: Wash thoroughly with soap and water after handling product and before eating, drinking, or using tobacco products. Clean affected clothing, shoes and protective equipment before reuse. Discard leather articles, such as shoes, saturated with this product.

OTHER: Where spills and splashes are likely, facility storing or using these products should be equipped with emergency eyewash and shower, both equipped with clean water, in the immediate work area.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE/ODOR:	AMBER FLUID/PETROLEUM ODOR.	**BOILING POINT**:	N/A
VAPOR PRESSURE:	LESS THAN 0.1 mm Hg AT 68°F (20°C)	**FREEZING/MELTING POINT**:	N/A
MOLECULAR WEIGHT:	NOT APPLICABLE		
SOLUBILITY IN WATER:	INSOLUBLE	**EVAPORATION RATE**:	N/A
ODOR THRESHOLD:	N/A	**VAPOR DENSITY**:	>1 (AIR =1)
Ph:	NOT APPLICABLE	**FLAMABILITY:**	N/A
FLASH POINT:	450°F (232°C) Minimum Cleveland Open Cup		
AUTOIGNITION TEMP:	N/D	**BOILING RANGE**:	N/A
SPECIFIC GRAVITY:	0.867 ESTIMATED (WATER=1 APPROXIMTAELY)		
RELATIVE DENSITY:	0.8672 g/cm^3 at 60°F (15.5°C)		

FLAMMABLE LIMITS IN AIR: Not Available

10. STABILITY AND REACTIVITY

STABILITY: Stable under normal temperatures and pressures. Avoid sparks, or flame.
INCOMPATIBLE MATERIALS: Avoid oxidizing agents.
REACTIVITY: Polymerization is not known to occur under normal temperatures and pressures. Not reactive with water.
HAZARDOUS DECOMPOSITION: None under normal temperatures and pressures. Also see **Section 5: HAZARDOUS COMBUSTION PRODUCTS.**

11. TOXICOLOGICAL INFORMATION

ROUTES OF EXPOSURE: Skin, Eyes, Ingestion, and Inhalation.
ACUTE EFFECTS: May be harmful if swallowed. May irritate eyes and skin. May cause throat irritation, nausea, vomiting and diarrhea. Aspiration hazard: Breathing product into the lungs during ingestion or vomiting may cause lung injury and possible death.
REPEATED DOSE EFFECTS: Prolonged or repeated inhalation of oil mist may cause oil pneumonia, lung tissue inflammation, and/or fibrous tissue formation. Prolonged or repeated eye contact may cause inflammation of the membrane lining the eyelids and covering the eyeball (conjunctivitis). Prolonged or repeated skin contact may cause drying, cracking, redness, itching, and/or swelling (dermatitis).
SENSITIZATION: Based on best current information, there is no known human sensitization associated with this product.
MUTAGENICITY: Experimental evidence suggests that this product does not cause mutagenesis.
CARCINOGENICITY: Based on best current information, there is no known carcinogenicity as regulated by OSHA; as categorized by ACGOH A1 or A2 substances; as categorized by IARC Group 1 Group 2A or Group 2B agents as either known carcinogens or substances for which there is limited evidence of carcinogenicity in humans or sufficient evidence of carcinogenicity in experimental animals.
REPRODUCTIVE TOXICITY: Based on best current information, there is no known reproductive toxicity associated with this product.
TERATOGENICITY: Based on best current information, there is no known teratogenicity associated with this product.
NEUROTOXICITY: High vapor/aerosol concentrations (attainable only at elevated temperatures) may cause central nervous system effects such as dizziness, drowsiness or headaches.

TOXICITY DATA:

Component Analysis – LD50/LC50

Mineral Oil
Dermal LD50 Rabbit >5000 mg.kg
Oral LD50 Rat >5000 mg/kg

Olefin Sulfide
Dermal LD50 Rabbit >20000 mg.kg
Oral LD50 Rat >5000 mg/kg

Alkyl phosphate
Dermal LD50 Rabbit >2000 mg.kg
Oral LD50 Rat >3000 mg/kg

Alkyl dithio thiadiazole
Dermal LD50 Rabbit >20000 mg.kg
Oral LD50 Rat >10000 mg/kg
Inhalation LC50 Rat>2.75 mg/L 4h

Long-chain alkyl amine
Oral LD50 Rat >10000 mg/kg

12. ECOLOGICAL INFORMATION

ECOTOXICITY: Material expected to be harmful to aquatic organisms. May cause long term adverse effects in the aquatic environment.
PERSISTENCE/DEGRADABILITY: Not readily biodegradable.
BIOACCUMULATIVE POTENTIAL: No information available for the product.
MOBILITY IN ENVIRONMNETAL MEDIA: Base oil component(s) – Low solubility and floats; expected to migrate from water to the land.
OTHER ADVERSE EFFECTS: Not available.
OCTANOL/WATER PARTITION COEFFICIENT: Not available

VOLATILE ORGANIC COMPOUNDS: Negligible
AQUATIC RELEASE: Advise authorities if product has entered or may enter watercourses or sewer drains.

13. DISPOSAL INFORMATION

DISPOSAL: Dispose in accordance with federal, state, provincial and local regulations. Regulations may also apply to empty containers. The responsibility for proper waste disposal lies with the owner of the waste.

USEPA WASTE CODES: This product, if discarded, is not expected to be a characteristic or listed hazardous waste. If recycled in the USA, it must be managed in accordance with 40 CFR Part 279. Processing, use or contamination by user may change the waste code(s) applicable to the disposal of these products.

14. TRANSPORTATION INFORMATION

DOT
PROPER SHIPPING NAME: Petroleum Lubricating Oil – Not regulated as a hazardous material for Land Transport
HAZARD CLASS: Not regulated
ID NUMBER: Not regulated
LABEL REQUIRED: Not regulated
EMERGENCY RESPONSE GUIDE NUMBER: Not applicable. Reference North American Emergency Response Guidebook.
IATA: Not regulated.

15. REGULATORY INFORMATION

TSCA: All components of this product are listed in **Section 3** are exempted from the TSCA requirements.

SARA SECTIONS 302 304: Based on the ingredients listed in **Section 3**, this product does not contain any "extremely hazardous substances" listed pursuant to Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) Section 302 or Section 304 as identified in 40 CFR Part 355, Appendix A and B.
SARA SECTIONS 311 AND 312 REPORTING: This product poses the following health hazard(s) as defined in 40 CFR Part 370 and is subject to the requirements of Sections 311 and 312 of Title III of Superfund Amendments and Reauthorization Act of 1986 (SAEA):

Immediate (Acute) Health Hazard	Yes
Delayed (Chronic) Health Hazard	No
Physical Fire	No
Physical Sudden Release of Pressure	No
Physical Reactive	No

SARA SECTION 313: No SARA 313 chemicals are present above the reporting threshold.

CERCLA: Hazardous substances: Ethyl acrylate: 1000 lbs. (454) kg); Phosphoric acid: 5000 lbs. (2270 kg)

16. OTHER INFORMATION

DATE ISSUED: **February 13, 2015**
SUPERSEDES: **October 22. 2010**
REVISION NO. **1**
REVISION INFOMRATION: **GHS Compliance**
SDS #: **CODE 966**

SCOT LUBRICANTS LLC
6 HORWITH DRIVE

The information on this form is furnished solely for the purpose of compliance with the OSHA Act, and shall not be used for any other purpose. The information herein is given in good faith and is based on data considered accurate. However, no warranty, expressed or implied, is made regarding the accuracy of these data or the results to be obtained from the use thereof. This safety sheet was prepared and is to be used only for this product. If the product is used as a component in another product, this safety sheet information may not be applicable.