



Atlas Copco Drilling Solutions
7500 Shadwell Drive
Roanoke, VA 24019
Phone : (540)362-3321
FAX: (540) 561-4204

Material Safety Data Sheet

Date: JUNE 23, 2008

Trade Name: Atlas Copco, SuperTac Rock Drill Oil, Light

Synonyms: Lubricating Oil
CAS No. (Mixture (Refer to Section 1))

Technical Contact: (540) 362-3321
Medical Emergency: (800)535-5053
(352) 323-3500
INFOTRAC Emergency: (800)535-5053
(352) 323-3500
Atlas Copco Contact: (540) 561-4211

MATERIAL HAZARD EVALUATION

(Per OSHA Hazard Communication Standard [29 CFR Part 1910.1200])

Health: Non-Hazardous
Precautionary Statements: None required for product
HMIS Rating !: Health: 0 Flammability: 1 Reactivity: 0

1.0 GENERIC COMPOSITION / COMPONENTS

Components	CAS #	%	Hazard Data
Refined Petroleum Oil(s)	64741-88-4	>90	Oral LD50(rat): >15g/kg
EP Agent	Mixture	<5	Dermal: Low to moderate irritant and possible mild sensitizer. Eye: Moderate irritant
Emulsifier	Mixture	<2	Dermal & Eye: Irritant
Tackiness Agent	Mixture	<2	Dermal & Eye: Mild Irritant
Anti-wear Agent	Mixture	<2	Dermal, Eye & Respiratory: Irritant
Pour Point Depressants	Mixture	<1	Dermal & Eye: Mild Irritant

Hazard Rating: Lease-0; Slight-1; Moderate-2; High-3; Extreme-4.

These values based upon an evaluation conducted pursuant to NPCA guidelines. Use of an asterisk (*) indicates that the material may present chronic health effects.

NA - Not Applicable

ND - No Data

NE - Not Established

2.0 PHYSICAL DATA

PHYSICAL HAZARD CLASSIFICATION (Per 29 CFR Part 1910.1200)

NO	COMBUSTIBLE	NO	FLAMMABLE	NO	PYROPHORIC
NO	COMPRESSED GAS	NO	ORGANIC PEROXIDE	NO	REACTIVITY
NO	EXPLOSIVE	NO	OXIDIZER	YES	STABLE

Boiling Point, 760 mmHg, _C(_F): ~332 (~630)
 Specific Gravity (60/60 _F)(H2O.=1): 0.88
 Vapor Density (Air=1): >1
 % Volatiles by Volume: Negligible
 Melting Point, _C(_F): NA
 Vapor Pressure, mmHg (25_C): -6x10-^s
 Solubility in H2O, % by Weight: Negligible
 Evaporation Rate (Butyl Acetate=1): <1
 pH of Undiluted Product: NA
 Appearance and Odor: Amber liquid, mild petroleum odor

3.0 FIRE AND EXPLOSION DATA

FLASH POINT, COC, _C(_F)	202(395)
FLASH POINT, PMC, _C(_F)	173(343)
FIRE POINT, COC, _C(_F)	240(464)
NFPA RATING @	HEALTH: <u>0</u> FLAMMABILITY: <u>1</u> REACTIVITY: <u>0</u>
FLAMMABLE LIMITS (% by volume in air)	Lower: <u>NA</u> Upper: <u>NA</u>
EXTINGUISHING MEDIA	CO2, dry chemical, foam, water fog
SPECIAL FIRE FIGHTING PROCEDURE	NONE
UNUSUAL FIRE OR EXPLOSION HAZARD	WATER MAY CAUSE FROTHING

4.0 REACTIVITY DATA

Stability: Stable
 Conditions Contributing to Instability: None
 Incompatibility: Strong Oxidants
 Hazardous Decomposition Products: CO2 (CO under incomplete combustion)
 (thermal, unless otherwise specified) Traces of SOx, Minor traces of chlorine.
 Conditions Contributing to Hazardous Polymerization: None

@Hazard Rating: Lease-0; Slight-1; Moderate-2; High-3; Extreme-4.

These values based upon an evaluation conducted pursuant to NFPA guidelines.

NA - Not Applicable

ND - No Data

NE - Not Established

5.0 SPILL, LEAK AND DISPOSAL PROCEDURES

Procedure if Material is Spilled:

- Remove sources of heat or ignition, provide adequate ventilation, contain leak.
- *Small Spills:* Absorb with suitable material such as rags, straw or sand. Place into containers for later removal.
- *Large Spills* Contain spill in earthen dikes for later recovery.
- Report spills as required to appropriate authorities.

WASTE DISPOSAL:

- It is the responsibility of the user to determine if the material is a hazardous waste at the time of disposal.
- Check before disposing to be sure you are in compliance with all applicable laws and regulations.
- Contact the RCRA/Superfund Hotline (1-800/424-9346) or your regional U.S. EPA office for guidance concerning case specific disposal issues.

Protective Measures During Repair and Maintenance of Contaminated Equipment:

- Refer to Section 7.0 - Special Protection Information.
- Avoid prolonged contact with used oil.
- Wash exposed skin thoroughly with soap and water.
- Remove soiled clothing.
- Use oil impervious gloves if direct contact is expected.

6.0 HEALTH HAZARD DATA

Health Hazard Classification (Per 29 CFR Part 1910.1200)

NO	Carcinogen	NO	Corrosive
NO	Animal Carcinogen	NO	Irritant
NO	Suspect Carcinogen	NO *	Sensitizer
NO	Mutagen	NO	Teratogen
NO	Highly Toxic	NO	Target Organ
NO	Toxic		

* One component possible sensitizer but is not expected to affect the final product.

Product listed as Carcinogen or Potential Carcinogen by:

NTP: NO IARC: NO OSHA: NO Other: NO

Toxicity Summary: Practically non-toxic. One pint may be the approximate oral dose for a 150 lb. human adult.

Major Route of Entry: Inhalation of incidental mists or vapors.

NA - Not Applicable

ND - No Data

NE - Not Established

Acute Exposure Symptoms:

- **Inhalation:** Low risk of inhalation at ambient temperatures. Mists or fumes may cause drowsiness, dizziness, headache, nausea, or lung irritation or chemical pneumonitis.
- **Dermal Contact:** Practically non-irritant.
- **Eye Contact:** Low temporary irritant.
- **Ingestion:** Low toxicity. Upon ingestion of large quantities, slight GI discomfort, diarrhea, and headache may occur. Small does may produce irritation and diarrhea.
- **Injection:** Subcutaneous or intramuscular injection may cause irritation, erythema, edema.

Chronic Exposure Symptoms:

- Prolonged and/or frequent contact may cause drying, cracking (dermatitis) or folliculitis.

Other Special Effects:

- None expected.

Medical Conditions Aggravated by Exposure:

- None

First Aid and Emergency procedures for Acute Effect:

Inhalation: Remove to fresh air. Provide respiratory support if necessary. Seek medical aid.

Dermal: Wash with soap and water. Do not wear heavily contaminated clothing before laundering.

Eyes: Flush with large volumes of water. Seek physician if any complications arise.

Ingestions: Subcutaneous injection is a medical emergency. Seek medical aid immediately.

NOTES TO THE PHYSICIAN: Following ingestion at a Saybolt viscosity of about 220 SUS (100_F), there exists only a slight risk of aspiration into the lungs. For large quantities, lavage may be considered for evacuation of the material. Subcutaneous or intramuscular injection requires prompt surgical debridement. If not familiar with technique, see skilled advice.

NA - Not Applicable

ND - No Data

NE - Not Established

7.0 SPECIAL PROTECTION INFORMATION

Ventilation Requirements: Use in well ventilated area. In confined space, mechanical ventilation may be required to keep levels of certain components below mandated standards as evaluated by designated personnel.

Permitted Threshold Air Concentrations:

Mineral Oil Mist	TLV-TWA	5mg/m#	OSHA-PEL	5mg/m#
	TLV-STEL	10mg/m#	OSHA-STEL	ND
	TLV-CEILING	ND	OSHA-CEILING	ND
			OSHA-PEAK	ND

Specific Personal Protective Equipment:

Respirator: Normally none required. If high vapor or mist concentration expected, use respirator approved for organic vapors and mists.

Eyes: Safety glasses, or chemical splash goggles if splashing is anticipated.

Dermal: Oil impervious gloves if frequent or prolonged contact is expected.

Other Clothing or Equipment: Wear body-covering work clothes to avoid prolonged or repeated exposure. Launder soiled work clothes before reuse.

8.0 TRANSPORTATION AND SPECIAL PRECAUTIONS

Storage: Do not apply high heat or flame to container. Keep separate from strong oxidizing agents.

Caution: Empty containers may contain product residue which could include flammable or explosive vapors.

Consult appropriate Federal, State and Local authorities before reusing, reconditioning, reclaiming, recycling or disposing of empty containers and/or waste residues of this product.

DOT INFORMATION

Proper Shipping Name	Petroleum Lubricating oils
Hazard Class	Non-Hazardous
Hazard Identification Number	None Assigned
Placard	None
Compatibility Category	Group 33
CHRIS Code	OLB

NA - Not Applicable

ND - No Data

NE - Not Established

9.0 ENVIRONMENTAL DATA

Product Name: Atlas Copco Rock Drill Oil, Light

SARA TITLE III

Section 313 - Toxic Chemicals

This product does not contain toxic chemicals of Section 313 of Title III of Superfund Amendments and Reauthorization Act of 1986 (SARA) and 40 CFR Part 372.

Section 313 - Hazard Categories

Not applicable	YES	Fire Hazard	NO
Acute (Immediate Health Hazard)	NO	Sudden Release of Pressure Hazard	NO
Chronic (Delayed Health Hazard)	NO	Reactive Hazard	NO

Section 302(a) - Extremely Hazardous Substances

(RQ = Reportable		Quantity)
(TPQ = Threshold	Planning	Quantity)

This product does not contain Extremely Hazardous Substances of Section 302(a)

Clean Water Act

Under Section 311(b)(4) of the Clean Water Act, discharges of crude oil and petroleum products in any kind or form to surface waters must be immediately reported to the National Response Center: 800-424-8802.

Comprehensive Environmental Response, Compensation, & Liability Act (CERCLA) Section 102 Hazardous Substances, 42 U.S.C. 9602

Petroleum and petroleum fractions are excluded from the list of CERCLA hazardous substances by Section 101(14) of CERCLA.

CALIFORNIA Proposition 65

Contains components that occur on list of:

	YES	NO
Carcinogenic Materials		X
Teratogenic Materials		X

Federal Regulations

Reported In TSCA Inventory	YES	NO	NOT APPLICABLE
Product			X
Components	X		

NA - Not Applicable

ND - No Data

NE - Not Established

NOTE

This product has been determined not to be a physical or health hazard as defined by the OSHA Hazard Communication Standard.

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ND - No Data

NE - Not Established