Material Safety Data Sheet

1. MATERIAL AND COMPANY IDENTIFICATION

Material Name : **Roto-Foodgrade Fluid**
Product Use : Compressor oil.
Product Code : 0017 5300 07

Manufacturer/Supplier : **Atlas Copco - North American Service Center**
11313 Steele Creek Road, Charlotte
NC 28273, USA

Telephone : Please contact Atlas Copco Technical Support 866-865-7995 or the Atlas Copco Airpower office in Belgium: +32 3 870 2111 (8am-5pm CET).

Email Contact for Safety Data Sheet : If you have any enquiries about the content of this Material Safety Data Sheet please email info.lubricants.cts@group.atlascopco.com.

Emergency Telephone Number
: Contact CHEMTREC: 800-424-9300 for leak, fire, exposure or accident (24/7).

2. HAZARDS IDENTIFICATION

Appearance : Clear to yellow liquid.
Odor : Mild
Principal Hazards : This material has no known health hazards

See Section 11 for complete health hazard information.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredients : This material has no known hazards under applicable laws.

4. FIRST AID MEASURES

Eyes
Rinse cautiously with water for 20 minutes or until chemical is removed. Remove contact lenses, if present and easy to do. If eye irritation persists, get medical attention.

Skin
Wash with soap and water for 30 minutes or until chemical is removed. Immediately remove all contaminated clothing. If skin irritation occurs, seek medical attention. Launder contaminated clothing before reuse.

Inhalation
Remove victim to fresh air and keep at rest in a position comfortable for breathing. If breathing is labored, administer oxygen.If breathing has stopped, apply artificial respiration. If experiencing respiratory symptoms call a poison center or doctor.

Oral
Do NOT induce vomiting. Never give anything by mouth to a person who is losing consciousness, unconscious or convulsing. Rinse mouth and then drink plenty of water, seek medical attention Call a poison center or doctor if exposed or you feel unwell.

Additional Information
Note to physician: Treat symptomatically.

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5. FIRE FIGHTING MEASURES

Appearance	:	Clear to yellow liquid.
Flash Point	:	246 °C, 475 °F COC (Typical)
Extinguishing Media	:	CO2, dry chemical, foam, water spray, water fog. Water can be used to cool and protect exposed material.
Firefighting Procedures	:	Wear full protective fire gear including self-containing breathing apparatus operated in the positive pressure mode with full face piece, coat, pants, gloves and boots. Do not use a water jet. Use water to cool containers exposed to fire. A solid stream of water will spread the burning material. Material creates a special hazard because it floats on water. Stop leak if safe to do so. Spills produce extremely slippery surfaces. In case of fire, evacuate area. Do not release chemically contaminated water into drains, soil or surface water.
Unusual Fire & Explosion Hazards	:	Burning may produce irritating, toxic and obnoxious fumes. Container may rupture in a fire situation. Keep material away from heat, sparks, pilot lights, static electricity and open flame. DO NOT USE a solid stream of water. See section 10 for additional information

6.ACCIDENTAL RELEASE MEASURES

Spill Procedures	:	Evacuate all non-essential personnel. Only trained personnel should be permitted in area. Personal Protective Equipment must be worn, see Personal Protection Section for PPE recommendations. Take precautions to avoid release to the environment. Eliminate all sources of heat, sparks pilot lights, static electricity and open flames. Ventilate area if spilled in confined space or other poorly ventilated areas. Shut off leak if without risk. Prevent entry into sewers and waterways, dispose of in accordance with all federal, state and local environmental regulation. Material on floors may be slippery. Small spills: contain spilled material. Transfer to secure containers. Where necessary collect using absorbent media. Larger spills: stop spill and dike area to prevent spreading, pump liquid to salvage tank. remaining liquid may be taken up on sand, clay, earth, floor absorbent or other absorbent material and shoveled into containers. Place in metal containers for recovery or disposal. Pump any free liquid into an appropriate closed container. Check under Transportation and Labeling (DOT/CERCLA) and Other Regulatory Information Section (SARA) for hazardous substances to determine regulatory reporting requirements for spills.

7. HANDLING AND STORAGE

Pumping Temperature	:	Not determined.
Maximum Handling Temperature	:	Not determined.
Handling Procedures	:	Keep away from ignition sources such as heat, sparks and open flame. No smoking. Use with adequate ventilation. Open container in a well ventilated area. Avoid breathing vapors. Keep containers closed when not in use. Do not discharge into drains or the environment; dispose to an authorized waste collection point. Use appropriate containment to avoid environmental contamination. Avoid prolonged exposure to heat and air. Avoid eye contact. Avoid repeated or prolonged skin contact. When handlings, do not eat, drink, or smoke. Avoid inhalation of dust, aerosol, mist, spray, fume, or vapor. Use

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		with appropriate and adequate ventilation. Avoid contact with eyes, skin and clothing. Product can accumulate static charge when handled. Equipment should be grounded. Use grounding and bonding connection when transferring material to prevent static discharge, fire and explosion. Use spark-resistant tools. All equipment should be grounded to prevent static discharges, and vented to provide for potential energy release. Do not breathe thermal decomposition products. Wash thoroughly after handling. Launder contaminated clothing before reuse. Empty containers retain material residue. Do not cut, weld, braze, solder, drill, grind or expose containers to heat, flame, spark or other sources of ignition. Dispose of packaging or containers in accordance with local, regional, national and international regulations.
Maximum Storage Temperature	:	Not determined.
Storage Procedures	:	Keep material away from heat, sparks, pilot lights, static electricity and open flame. Store separately from oxidizers. Store in a cool, dry, well-ventilated area. Do not store in direct sunlight. Store separately from incompatible materials. Store in containers made of same material as original container. Store container tightly closed in well-ventilated place. Store in dry, well ventilated place away from sources of heat and direct sunlight. Do not store in open, unlabeled or mislabeled containers. See section 10 for incompatible materials.
Maximum Loading Temperature	:	Not determined.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits	:	None established
Other Exposure Limits	:	Contains synthetic base stock. Under conditions which may generate mists, observe the OSHA PEL of 5 mg per cubic meter, ACGIH TWA of 5 mg per cubic meter for mineral oil mists.
Engineering Controls	:	If use generates a mist or vapor, local exhaust ventilation is recommended. Additional ventilation or exhaust may be required to maintain air concentrations below recommended exposure limits. Prevent inhalation by providing effective general and, when necessary, local exhaust ventilation to draw spray, aerosol, fume, mist, or vapor away from workers.
Gloves Procedures	:	Consult clothing/glove manufacturer to determine appropriate type of glove for given situation. Gloves should always be inspected before each use and discarded if they show tears, pinholes, or signs of wear. Use good industrial hygiene practices to avoid skin contact. If contact with the material may occur wear chemically protective gloves.
Eye Protection	:	Safety glasses. If potential for splash or mist exists, wear chemical goggles or face shield.
Respiratory Protection	:	Use NIOSH/MSHA approved respirator with a combination organic vapor and high efficiency filter cartridge if recommended exposure limit is exceeded. Use self-contained breathing apparatus for entry into confined space, for other poorly ventilated areas and for large spill clean-up sites.
Clothing Recommendation	:	Long sleeve shirt is recommended. Wear a chemically protective apron when contact with material may occur. Do not wear rings, watches or similar apparel that could entrap the material and cause a skin reaction. Launder contaminated clothing before reuse. Use good industrial hygiene practices. In case of skin contact, wash hands and arms thoroughly with soap and water to prevent a skin reaction**.**

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9. PHYSICAL AND CHEMICAL PROPERTIES

Flash Point	:	246 °C, 475 °F COC (Typical)
Upper Flammable Limit	:	Not determined.
Lower Flammable Limit	:	Not determined.
Auto ignition Point	:	Not determined.
Explosion Data	:	Material does not have explosive properties.
Vapor Pressure	:	Not determined.
pH	:	Not determined.
Specific Gravity	:	0.84 (20 °C)
Bulk Density	:	6.99 Lb/gal, 0.84 Kg/L
Water Solubility	:	Insoluble.
Percent Solid	:	Not determined.
Percent Volatile	:	Not determined.
Volatile Organic Compound	:	Not determined.
Vapor Density	:	Not determined.
Evaporation Rate	:	Not determined.
Odor	:	Mild
Appearance	:	Clear to yellow liquid.
Viscosity	:	51 Centistokes (40 °C) 8.2 Centistokes (100 °C)
Odor Threshold	:	Not determined.
Boiling Point	:	Not determined.
Pour Point Temperature	:	Not determined.
Melting / Freezing Point	:	Not determined.

The above data are typical values and do not constitute a specification. Vapor pressure data are calculated unless otherwise noted

10. STABILITY AND REACTIVITY

Stability	:	Material is normally stable at moderately elevated temperatures and pressures. Decomposes at temperatures above 572 deg F (300 deg C).
Decomposition Temperature	:	Not determined.
Incompatibility	:	Strong mineral acids and strong oxidizing agents. Avoid strong bases Oxidizing agents.
Polymerization	:	Will not occur.
Thermal Decomposition	:	Smoke, carbon monoxide, carbon dioxide, aldehydes and other products of incomplete combustion.
Conditions to Avoid	:	Do not expose to excessive heat, ignition sources, or oxidizing materials. Direct sunlight. Contact with strong oxidizers.

11.TOXICOLOGICAL INFORMATION

Acute Exposure

Eye Irritation	:	Not expected to cause eye irritation. Based on data from components or similar materials.
Skin Irritation	:	Not expected to be a primary skin irritant. Based on data from components or similar materials. Prolonged or repeated skin contact as from clothing wet with material may cause dermatitis. Symptoms may include redness, edema, drying, and cracking of the skin.

Respiratory Irritation	:	If material is misted or if vapors are generated from heating, exposure may cause irritation of mucous membranes and the upper respiratory tract. Based on data from similar materials.
Dermal Toxicity	:	The LD50 in rabbits is > 2000 mg/Kg. Based on data from components or similar materials.
Inhalation Toxicity	:	No data available to indicate product or components may be a toxic inhalation hazard.
Oral Toxicity	:	The LD50 in rats is > 10,000 mg/Kg. Based on data from components or similar materials.
Dermal Sensitization	:	No data available to indicate product or components may be a skin sensitizer.
Inhalation Sensitization	:	No data available to indicate product or components may be respiratory sensitizers.

Chronic Exposure

Chronic Toxicity	:	No data available to indicate product or components present at greater than 1% are chronic health hazards.
Carcinogenicity	:	No data available to indicate any components present at greater than 0.1% may present a carcinogenic hazard.
Mutagenicity	:	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
Reproductive Toxicity	:	No data available to indicate either product or components present at greater than 0.1% that may cause reproductive toxicity.
Teratogenicity	:	No data available to indicate product or any components contained at greater than 0.1% may cause birth defects.

Additional Information

Other	:	No other health hazards known.

12. ECOLOGICAL INFORMATION

Bacteria Toxicity	:	Not determined.
Freshwater Fish Toxicity	:	Not determined.
Freshwater Invertebrates Toxicity	:	Not determined.
Algal Inhibition	:	Not determined.
Saltwater Fish Toxicity	:	Not determined.
Saltwater Invertebrates Toxicity	:	Not determined.

Environmental Toxicity

Miscellaneous Toxicity	:	Not determined

Environmental Fate

Biodegradation	:	Adequate data is not available to estimate the biodegradation potential of this material.
Bioaccumulation	:	Less than 1.0% of the components potentially bio concentrate, based on octanol/water coefficients.
Soil Mobility	:	Not determined.

13. DISPOSAL CONSIDERATIONS

Waste Disposal	:	This material, if discarded, is not a hazardous waste under RCRA Regulation 40 CFR 261. Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations.

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14. TRANSPORT INFORMATION

Miscellaneous Toxicity	:	Not determined
ICAO/IATA I	:	Not regulated.
ICAO/IATA II	:	Not regulated.
IMDG	:	Not regulated.
IMDG EMS Fire	:	Not applicable.
IMDG EMS Spill	:	Not applicable.
IMDG MFAG	:	Not applicable.
MARPOL Annex II	:	Not determined.
USCG Compatibility	:	Not determined.
U.S. DOT Bulk	:	Not regulated.
DOT NAERG	:	Not applicable.
U.S. DOT (Intermediate)	:	Not regulated.
U.S. DOT Intermediate NAERG	:	Not applicable.
U.S. DOT Non-Bulk	:	Not regulated.
U.S. DOT Non-Bulk NAERG	:	Not applicable.
Canada	:	Not regulated.
Mexico	:	Not regulated.
Bulk Quantity	:	85000 KG, 187391 lbs.
Intermediate Quantity	:	11000 KG, 24251 lbs.
Non-Bulk Quantity	:	400 KG, 882 lbs.

Review classification requirements before shipping materials at elevated temperatures

15. REGULATORY INFORMATION

Global Chemical Inventories

USA	:	All components of this material are on the US TSCA Inventory or are exempt.
Other TSCA Reg.	:	None known.
Japan	:	All components are in compliance with the Chemical Substances Control Law of Japan.
Australia	:	All components are in compliance with chemical notification requirements in Australia.
New Zealand	:	All components are in compliance with chemical notification requirements in New Zealand.
Canada	:	All components are in compliance with the Canadian Environmental Protection Act and are present on the DomesticSubstances List.
Switzerland	:	All components are in compliance with the Environmentally Hazardous Substances Ordinance in Switzerland.
Korea	:	All components are in compliance in Korea.
Philippines	;	All components are in compliance with the Philippines Toxic Substances and Hazardous and Nuclear Wastes Control Act of1990 (R.A. 6969).
China	:	All components of this product are listed on the Inventory of Existing Chemical Substances in China.
Taiwan	:	May require notification before sale in Taiwan.

Other U.S. Federal Regulations

SARA Ext. Haz. Subst	:	product does not contain greater than 1.0% of any chemical substance on the SARA Extremely Hazardous Substances list.

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SARA Section 313 : This product does not contain greater than 1.0% (greater than 0.1% for carcinogenic substance) of any chemical substances listed under SARA Section 313.

SARA 311 Classifications :

Acute Hazard	:	No
Chronic Hazard	:	No
Fire Hazard	:	No
Reactivity Hazard	:	No

CERCLA Hazardous Substances: None known.

State Regulations

Cal. Prop. 65 : This product does not intentionally contain any chemicals known by the State of California to cause cancer and/or birth defects. Moreover, we do not routinely analyze its products for impurities which may be such chemicals.

State Regulations

U.S. Fuel Registration : Not applicable.
Finnish Registration Number : Not Registered
Swedish Registration Number : Not Registered
Norwegian Registration Number : Not Registered
Danish Registration Number : Not Registered
Swiss Registration Number : Not Registered
Italian Registration Number : Not Registered

Other / International

U.S. Fuel Registration Information : Not applicable.

16. OTHER INFORMATION

US NFPA Codes

Health	Fire	Reactivity	Special
1	1	0	N/E

HMIS Codes

Health	Fire	Reactivity
0	1	0

Precautionary Labels
This material has no known health hazards

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Revision Indicators

Section: 1 Product type.	Changed: 1 November 2012
Section: 4 Eyes first aid.	Changed: 1 November 2012
Section: 4 Inhalation first aid.	Changed: 1 November 2012
Section: 4 Oral first aid.	Changed: 1 November 2012
Section: 4 Skin first aid.	Changed: 1 November 2012
Section: 5 extinguishing media.	Changed: 1 November 2012
Section: 5 Special firefighting procedures.	Changed: 23 August 2013
Section: 5 Unusual fire& explosion hazards.	Changed: 1 November 2012
Section: 6 Spill procedures.	Changed: 23 August 2013
Section: 7 Handling procedures.	Changed: 23 August 2013
Section: 7 Storage procedures.	Changed: 23 August 2013
Section: 8 Clothing recommendations.	Changed: 1 November 2012
Section: 8 Eye protection.	Changed: 1 November 2012
Section: 8 Glove protection.	Changed: 1 November 2012
Section: 8 Ventilation procedures.	Changed: 23 August 2013
Section: 10 Conditions to avoid.	Changed: 1 November 2012
Section: 10 Incompatibility.	Changed: 1 November 2012
Section: 11 Skin irritation.	Changed: 1 November 2012
Section: 12 Bioconcentration	Changed: 23 August 2013
Section: 12 Accumulation.	Changed: 1 November 2012
Section: 16 NFPA Codes.	Changed: 1 November 2012