Material Safety Data Sheet - Roto-Glide

Product:	**Roto-Glide**	**date**:18/07/2001

1. Identification of the substance/preparation and company:

Product name	Roto-Glide
Product nr	2908 8514-00
PHSD nr	45-2020001
Supplier	Atlas Copco Airpower nv
Address	Boomse Steenweg 957 B2610 Wilrijk, Belgium.
Contact number (phone)	+32 (3) 870 26 80
Contact number (fax)	+32 (3) 870 29 03
Center anti-poisons (for Belgium)	+32 (070) 245 245

2. Composition/information on ingredients:

Hazardous ingredient	None
Approximate concentration	

3. Hazards identification:

This product consists of highly refined base oils with additives. Including methyl salicylate and lithium hydroxide. Methyl salicylate and lithium have been shown in laboratory animals to be developmental toxins. However, dermal application of a high dose (6 g/kg/day) of this product in rats did not result in any sign of developmental toxicity. Based on this data, this product should present no developmental toxicity hazards.

It is of low oral and dermal toxicity and under normal conditions of use should present no significant health hazards.
However, in common with most mineral oils, prolonged and repeated skin contact may cause dermatitis
Handling precautions should be strictly observed

4. First Aid measures:

Inhalation	If overcome by vapors, remove immediately from exposure using proper rescue precautions. Administer artificial respiration if breathing is irregular or has stopped. Get prompt medical attention.
Skin contact	Wash thoroughly with plenty of water, using soap if available. Remove contaminated clothing. If irritation persists, get medical attention. Consult a physician immediately if the material is injected under the skin from the misuse of high pressure greasing equipment.
Eye contact:	Rinse immediately with plenty of water until irritation

	subsides. If irritation persists, obtain medical advice.
Ingestion:	If swallowed, DO NOT induce vomiting, keep at rest and call a physician.

5. Fire fighting measures:

Fire extinguishing media:	Foam, dry chemical powder, Carbon dioxide (CO_2).
Fire and explosion hazards:	Combustible material, low hazard. The product can form flammable mixtures or can burn only on heating above the flash point. However, minor contamination by hydrocarbons of higher volatility may increase the hazard.
Special fire fighting measures:	Water fog or spray, to cool fire-exposed surfaces (e.g. containers) and to protect personnel, should only be used by personnel trained in fire fighting. Respiratory and eye protection required for fire fighting personnel exposed to fumes or smoke.
Hazardous combustion products:	Smoke, Sulphur oxides and carbon monoxide in the event of incomplete combustion.

6. Accidental release measures

Personal precautions:	see point 8
Ground pollution**:**	Recover residual material; add absorbent to the spill area and remove mechanically into containers. If necessary, dispose of absorbed residues as directed in section 13. Advise the relevant authorities is material has entered a water course or sewer, or has contaminated soil/vegetation. Take measures to minimise the effects on ground water.

7. Handling and storage:

Storage	Store the product in cool, well ventilated surroundings well away from sources of ignition. Provide suitable mechanical equipment for the safe handling of drums and heavy packages. Electrical equipment and fittings must comply with local regulations regarding fire prevention with this class of product.
Storage temperature degrees C	Ambient
Load/unload temperatures degrees C	Ambient
Special precautions	Keep containers closed when not in use.

8. Exposure controls/personal protection

Occupational exposure limit	5 mg/m^3 for oil mists (TWA, 8h - workday) recommended based upon the ACGIH TLV (analysis

	according to US NIOSH Method 5026, NIOSH Manual of Analytical Methods, 3rd ED.)
Personal protection	In open systems where contact is likely, wear safety goggles, chemical resistant overalls, and chemically impervious gloves. Where only incidental contact is likely, wear safety glasses with side shields. No other special precautions are necessary provided skin/eye contact is avoided When concentrations in air may exceed the occupational exposure limit, and where engineering, work practices or other means of exposure reduction are not adequate, approved respirators may be required.

9. Physical and chemical Properties

Appearance/odour	Dark green grease, very mild bland odour
Density g/ml	920 at 15° C - C kg/m³
Boiling range	Druppelpunt C: 260 MIN
Viscosity mm²/s:	112 at 40° C base oil
Vapor pressure:	kPu: non volatile
Vapor density at 1 bar (air=1)	data not available
Evaporation rate(n-butyl acetate=1)	non volatile
Solubility in water (20 deg C)	Negligible
pH	Not applicable
Flash point	> 150° C method COC - ASTM D92
Auto-ignition temperature	data not available
Partition coefficient n-octanol/water	not relevant

10. Stability/reactivity

Stability (Thermal, light etc.)	stable
Conditions to avoid:	Keep away from heat sources, open flames and other sources of ignition
Incompatible materials:	Avoid contact with strong oxidants such as liquid chlorine and concentrated oxygen
Hazardous decomposition products:	product does not decompose at ambient temperature.

11. Toxicological information - Effects of over exposure

Inhalation	Negligible hazard at ambient/normal handling temperatures. Elevated temperatures or mechanical action may form vapors, mists, or fumes which may be irritating to the eyes, nose, throat and lungs. Avoid breathing vapors, mists or fumes.
Skin contact	Low order of acute toxicity. Prolonged or repeated contact may lead to mild skin

	irritation. High pressure grease gun injection injury, where grease is injected through the skin on any part of the body, can cause serious delayed soft tissue damage and should be treated immediately as a surgical emergency.
Eye contact	Slightly irritating but does not injure eye tissue
Ingestion	Low order of acute/systemic toxicity
Chronic	Base oil components of this product have shown no carcinogenic activity in experimental animals (long-term repeated skin painting tests).
Toxicity data:	
Acute	No test data are available for the complete formulated product. The potential health hazards described were therefore derived from what is generally know of the toxicity of the base oils and the additives, taking into account the concentration at which type are present. The general effects of mineral oils of this type are well know and are described in numerous publications including CONCAWE report 5/87 “health aspects of lubricants”.
Chronic	The base oils for this product have been subjected to a lifetime skin painting bio-assay using a standard Exxon test protocol; there was no evidence of carcinogenicity.

12. Ecological information

In the absence of specific environmental data for this product, this assessment is based on information for general hydrocarbon components found in lubricant mineral oils. Lubricant mineral oils, immediately following a release into the environment, will remain largely on the soil surface, and in water, will remain largely on the water surface.
Based on chemical/physical information from the literature for this product category, no harmful effects to terrestrial or aquatic habitants would be expected.
These products expected to be resistant to bio-degradation and to persist in the environment. This product may contain additives for which no environmental data is available. Hence, the above assessment concerns the base oil(s) only.

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13. Disposal considerations

Collect and dispose of waste product at an authorized disposal facility in conformance with national and local regulations, and in accordance with EEC directives on the disposal of waste oil.

14. Transport information

Usual shipping containers	Drums, pails, cartridges
Transport temperature ° C	Ambient

15. Regulatory information

EEC dangerous substances	Not regulated
Preparation classifications	Refer to you national legislation implementing the EEC directive 91/155/EEC

16. Other information

product type / uses:	Multi-purpose grease for lubrication of various types of bearings
Source of key data:	The recommendations presented in this material safety sheet were compiled from actual test data (when available), comparison with similar products, component information from suppliers and from recognized codes of good practice