

## MATERIAL SAFETY DATA SHEET

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### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

**Product Name:** MICROLUBE GB 0  
**Article Code:** 020232  
**Synonyms:** No information available  
**Chemical characterisation:** Not applicable..

**Supplier:**  
Klüber Lubrication North America L.P.  
32 Industrial Drive  
Londonderry, NH 03053  
(603) 647-4104  
Fax (603) 647-4106

**Emergency telephone number** CHEMTREC: 1-800-424-9300 International: (703) 527-3887

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No	ACGIH (TWA mg/m <sup>3</sup> ):	OSHA (TWA mg/m <sup>3</sup> ):
Residual oils, petroleum		None	None
Silica		None	0.8
Lithium soap		None	None
Zinc compound		None	None

### 3. HAZARDS IDENTIFICATION

**Properties affecting health:** Harmful if swallowed

**Principle routes of exposure:** Skin.

**Skin contact:** Prolonged skin contact may cause skin irritation and/or dermatitis..

**Eye contact:** Contact with eyes may cause irritation.

**Inhalation:** Vapors and/or aerosols which may be formed at elevated temperatures may be irritating to eyes and respiratory tract.

**Ingestion:** Harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea

### 4. FIRST AID MEASURES

**General advice:** If symptoms persist, call a physician.

**Skin contact:** Rinse with plenty of water. If skin irritation persists, call a physician.

**Eye contact:** Flush eye with water for 15 minutes. If symptoms persist, call a physician.

<b>Inhalation:</b>	Move to fresh air in case of accidental inhalation of fumes from overheating or combustion. If symptoms persist, call a physician.
<b>Ingestion:</b>	Do not induce vomiting. Consult a physician.
<b>Notes to physician:</b>	Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

**Suitable extinguishing media:**

Carbon dioxide (CO<sub>2</sub>), Dry chemical, Dry sand, Water spray mist or foam

**Extinguishing media which must not be used for safety reasons:**

Do not use a solid water stream as it may scatter and spread fire.

**Special protective equipment for firefighters:**

In the event of fire and/or explosion do not breathe fumes. In the event of fire, wear self-contained breathing apparatus. Standard procedure for chemical fires.

<b>Specific hazards:</b>	Burning produces irritant fumes In the event of fire and/or explosion do not breathe fumes
<b>Unusual hazards:</b>	No hazards resulting from the material as supplied
<b>Specific methods:</b>	Water mist may be used to cool closed containers. Standard procedure for chemical fires.
<b>Flash point:</b>	Not applicable.
<b>Autoignition temperature:</b>	Not determined..
<b>Flammability Limits in Air:</b>	
<b>Lower</b>	No information available
<b>Upper</b>	No information available

## 6. ACCIDENTAL RELEASE MEASURES

<b>Personal precautions:</b>	Contaminated surfaces will be extremely slippery. Avoid contact with skin, eyes and clothing. Wear personal protective equipment.
<b>Environmental precautions:</b>	Prevent further leakage or spillage if safe to do so. Do not allow material to contaminate ground water system. Prevent product from entering drains.
<b>Methods for cleaning up:</b>	Scrape-up. Shovel into suitable container for disposal. Clean contaminated surface thoroughly.

## 7. HANDLING AND STORAGE

**Handling**

**Technical measures/precautions:**

**Safe handling advice:**

No special technical protective measures required. Spilling onto the container's outside will make container slippery. Avoid contact with skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice.

**Storage**

**Technical measures/storage conditions:**

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from open flames, hot surfaces and sources of ignition. Keep in properly labelled containers. Keep out of reach of children.

**Incompatible products:**

Oxidising and spontaneously flammable products.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Engineering measures to reduce exposure:

Ensure adequate ventilation, especially in confined areas..

### Personal Protective Equipment

<b>Respiratory protection:</b>	No personal respiratory protective equipment normally required.
<b>Hand protection:</b>	Preventive skin protection
<b>Skin and body protection:</b>	Usual safety precautions while handling the product will provide adequate protection against this potential effect..
<b>Eye protection:</b>	Avoid contact with eyes..
<b>Hygiene measures:</b>	Avoid contact with skin, eyes and clothing.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State:</b>	Grease	<b>Appearance:</b>	Paste
<b>Color:</b>	Red brown	<b>Odor:</b>	Not significant
<b>Specific gravity:</b>	~ 0.90	<b>Boiling point/range</b>	No information available
<b>Evaporation rate:</b>	Not determined	<b>Vapor density:</b>	Not determined
<b>Vapor pressure:</b>	Not determined	<b>Solubility:</b>	Insoluble.

## 10. STABILITY AND REACTIVITY

<b>Stability:</b>	No hazards to be especially mentioned
<b>Polymerization:</b>	Hazardous polymerisation does not occur.
<b>Hazardous decomposition products:</b>	None under normal use
<b>Materials to avoid:</b>	Strong oxidising agents.
<b>Conditions to avoid:</b>	Heat, flames and sparks..

## 11. TOXICOLOGICAL INFORMATION

<b>Acute toxicity:</b>	No data available
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## 12. ECOLOGICAL INFORMATION

<b>Mobility:</b>	No information available.
<b>Bioaccumulative potential:</b>	No information available.
<b>Ecotoxicity effects:</b>	May cause long-term adverse effects in the aquatic environment..
<b>Aquatic toxicity:</b>	May cause long-term adverse effects in the aquatic environment.

## 13. DISPOSAL CONSIDERATIONS

<b>Waste from residues / unused products:</b>	In accordance with local and national regulations.
<b>Contaminated packaging:</b>	Empty containers should be taken for local recycling, recovery or waste disposal

## 14. TRANSPORT INFORMATION

### DOT

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Proper shipping name: Not regulated

### TDG (Canada)

### IMO / IMDG

### ICAO

### IATA

Proper shipping name: Not regulated

## 15. REGULATORY INFORMATION

### TSCA

TSCA: Listed in TSCA

### U.S. Regulations:

#### *Silica*

**MARTK:** Listed.  
**NJRTK:** Substance no. 3510 Listed.  
**PARTK:** Listed.

#### *Zinc compound*

**SARA 313 Threshold:** Zinc compound (1 - 2.5%)  
**NJRTK:** Substance no. 3012 Listed.  
**ILRTK:** Listed.  
**CTRTK:** Listed.

### **Sara (311, 312) hazard class:**

### Canada

**WHMIS hazard class:**  
Non-controlled

## 16. OTHER INFORMATION

**NFPA**    **Health:**    1                    **Flammability:**    1                    **Instability:**        0

**HMIG**    **Health:**        1                    **Flammability:**    1                    **Reactivity:**        0

**Reason for revision:**                    Not applicable  
**Prepared by:**                                Health & Safety

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