

# SAFETY DATA SHEET

Issue Date 22-May-2017

Revision Date 22-May-2017

Version 1

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

Product identifier Product Name

MICROLUBE GB 0

Other means of identification Product code: UN-No: Synonyms

020232 UN3077 None

| Recommended use of the | chemical and restrictions on use |
|------------------------|----------------------------------|
| Recommended Use        | Lubricant.                       |
| Uses advised against   | Consumer use                     |

Details of the supplier of the safety data sheet Supplier Address Klüber Lubrication NA LP 32 Industrial Drive Londonderry, NH 03053 Phone: (603) 647-4104 Fax: (603) 647-4106

Emergency telephone number Emergency Telephone

CHEMTREC: 1-800-424-9300; INTERNATIONAL: (703) 527-3887

2. HAZARD IDENTIFICATION

**Classification** 

#### WHMIS 2015 Regulatory Status

This chemical is considered hazardous by the Canadian Hazardous Products Regulations (WHMIS 2015).

| Skin corrosion/irritation         | Category 2  |
|-----------------------------------|-------------|
| Serious eye damage/eye irritation | Category 2A |
| Skin sensitization                | Category 1  |

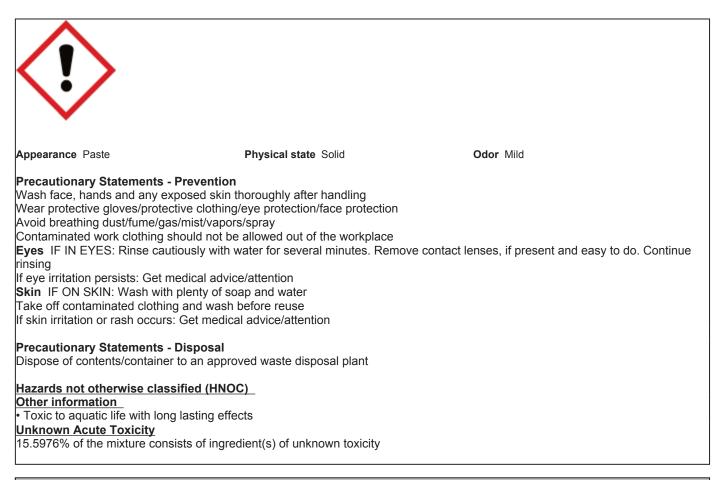
Label Elements

**EMERGENCY OVERVIEW** 

Signal word Warning

Hazard statements Causes skin irritation Causes serious eye irritation May cause an allergic skin reaction





### **3. COMPOSITION/INFORMATION ON INGREDIENTS**

This material is considered hazardous by the Canadian Hazardous Products Regulation (WHMIS 2015).

| Components  | CAS-No      | Weight % | Trade Secret |
|---|-------------|----------|--------------|
| Mineral Oil   | Proprietary | 70 - 80% | *            |
| Silica  | Proprietary | 0 - 10%  | *            |
| Amines, C12-14-alkyl, reaction products with<br>hexanol, phosphorus oxide (P2O5),<br>phosphorus sulfide (P2S5) and propylene<br>oxide | 91745-46-9  | 1 - 2.5% | *            |
| Zinc, dithiophosphate di-C1-14-alkyl esters   | 68649-42-3  | 1 - 3%   | *            |

# 4. FIRST AID MEASURES

#### First aid measures

Eye contact:

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

Skin contact:

Wash off immediately with soap and plenty of water. If skin irritation persists, call a physician.



#### MICROLUBE GB 0

| Inhalation:  | Move to fresh air in case of accidental inhalation of fumes from overheating or combustion.<br>If symptoms persist, call a physician. |
|--|---|
| Ingestion:   | Do not induce vomiting. Consult a physician.  |
| Most important symptoms and effect   | cts, both acute and delayed   |
| Symptoms   | No information available.   |
| Indication of any immediate medical attention and special treatment needed |   |
| Notes to physician:  | Treat symptomatically.  |

# 5. FIRE-FIGHTING MEASURES

#### Suitable extinguishing media:

Carbon dioxide (CO2). Dry chemical. Dry sand. Water spray mist or foam.

Unsuitable extinguishing media Do not use a solid water stream as it may scatter and spread fire **Specific hazards arising from the chemical** Thermal decomposition can lead to release of irritating gases and vapors. Water may be used to cool closed containers.

Hazardous combustion products Carbon oxides. Nitrogen oxides (NOx). Oxides of sulfur. Phosphorus oxides.

#### Explosion data Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None.

#### 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.

#### 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

| Personal precautions:             | Contaminated surfaces will be extremely slippery. Avoid contact with skin, eyes and clothing. Wear personal protective equipment. |
|-----------------------------------|---|
| Environmental precautions         |   |
| Environmental precautions:        | Do not allow material to contaminate ground water system. Prevent product from entering drains.                                   |
| Methods and material for containm | ent and cleaning up   |
| Methods for containment           | Prevent further leakage or spillage if safe to do so.   |
| Methods for cleaning up:          | Scrape-up. Pick up and transfer to properly labelled containers. Clean contaminated surface thoroughly.                           |

#### 7. HANDLING AND STORAGE

#### Precautions for safe handling

Handling

Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product.



#### Conditions for safe storage, including any incompatibilities

**Storage Conditions** 

Keep container tightly closed in a dry and well-ventilated place. Keep cool. Keep in properly labelled containers. Keep away from heat and sources of ignition. Handle and open container with care

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

| Exposure Guidelines                      |          |   |                                |                     |
|--|----------|---|--------------------------------|---------------------|
| Components                               |          | ACGIH TLV   | OSHA (TWA mg/m <sup>3</sup> ): | IDLH:               |
| Silica -                                 |          | -   | 0.8 mg/m <sup>3</sup>          |                     |
| Appropriate engineering controls         |          | -<br>-  |                                |                     |
| Engineering measures to reduce exposure: | Ensure   | e adequate ventilation, espec                           | cially in confined areas.      |                     |
| Individual protection measures, su       | ch as pe | ersonal protective equipme                              | nt                             |                     |
| Respiratory protection:                  | No per   | rsonal respiratory protective                           | equipment normally required.   |                     |
| Hand protection:                         | Imper\   | vious gloves  |                                |                     |
| Eye protection:                          | Safety   | glasses with side-shields                               |                                |                     |
| Skin and body protection:                |          | safety precautions while han<br>t this potential effect | dling the product will provide | adequate protection |
| General Hygiene Considerations           | 0        | contact with skin, eyes and c                           | lothing                        |                     |

# 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

| Physical state<br>Appearance F  |   | Odor Mild  | Color Red   |   | Odor thresholdNo information available |
|---|---|--|---|---|--|
| <u>Property</u><br>Melting<br>point/freezing<br>point   | <u>Values</u><br>No information<br>available                          | <u>Remarks • Method</u>                              | pH<br>Boiling point /<br>boiling range  | Not applicable<br>No information<br>available   |  |
| Flash point   | Not Applicable  | ISO 2592   | Evaporation rate  | No information available  |  |
| Flammability<br>(solid, gas)<br>Upper<br>flammability   | No information<br>available<br>No information<br>available            |  | Flammability<br>Limit in Air<br>Lower<br>flammability   | No information available  |  |
| limit:<br>Vapor<br>pressure   | < 0.001 hPa, 20<br>°C   | )  | limit:<br>Vapor density   | No information available  |  |
| Specific<br>Gravity<br>Solubility in<br>other solvents<br>Autoignition<br>temperature<br>Kinematic<br>viscosity<br>Explosive pro<br>Oxidizing pro | No information<br>available<br>No information<br>available<br>perties | No information available<br>No information available | Water<br>solubility<br>Partition<br>coefficient<br>Decomposition<br>temperature<br>Dynamic<br>viscosity | Insoluble in<br>water<br>No information<br>available<br>nNo information<br>available<br>No information<br>available |  |

#### Other information

| Softening point  |  |
|------------------|--|
| Molecular weight |  |
| VOC Content (%)  |  |
| Density          |  |
| Bulk density     |  |

No information available No information available No information available No information available No information available

#### **10. STABILITY AND REACTIVITY**

| Chemical stability Stabil |
|---|
| Possibility of Hazardous Reactions None under normal processing.   Reactions None under normal processing.  |
| Reactions   |
|   |
|   |
| Conditions to avoid   |
| Conditions to avoid Heat, flames and sparks<br>Hazardous Decomposition Products   |
| Hazardous Decomposition None under normal processing   Products Incompatible materials  |
| Incompatible materials Strong oxidising agents  |
| 11. TOXICOLOGICAL INFORMATION   |

#### Information on likely routes of exposure

| Product Information | Product does not present an acute toxicity hazard based on known or supplied information                             |
|---------------------|--|
| Eye contact         | Irritating to eyes.  |
| Skin contact        | Irritating to skin. May cause sensitization by skin contact.   |
| Inhalation          | Vapors and/or aerosols which may be formed at elevated temperatures may be irritating to eyes and respiratory tract. |
| Ingestion           | Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.                                     |

| Components  | Oral LD50           | Dermal LD50           | Inhalation LC50      |
|---|---------------------|-----------------------|----------------------|
| Mineral Oil -   | > 5000 mg/kg (Rat)  | > 2000 mg/kg (Rabbit) | = 2.18 mg/L (Rat)4 h |
| Silica -  | > 5000 mg/kg (Rat)  | > 2000 mg/kg (Rabbit) | > 2.2 mg/L (Rat)1 h  |
| Amines, C12-14-alkyl, reaction products with<br>hexanol, phosphorus oxide (P2O5), phosphorus<br>sulfide (P2S5) and propylene oxide - 91745-46-9 | > 10000 mg/kg (Rat) | -                     | -                    |

#### Information on toxicological effects

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization

May cause sensitization by skin contact.



5 of 9

| Mutagenic effects:               | Did not show mutagenic or teratogenic effects in animal experiments.                     |
|----------------------------------|--|
| Carcinogenicity                  | The table below indicates whether each agency has listed any ingredient as a carcinogen. |
| Components                       | Silica -   |
| ACGIH                            | -  |
| IARC:                            | Group 3  |
| NTP Report on Carcinogens List - | -  |
| OSHA                             | -  |
| Reproductive toxicity            | This product does not contain any known or suspected reproductive hazards.               |
| STOT - Single Exposure           | None under normal use conditions.  |
| STOT - Repeated Exposure         | None under normal use conditions.  |
| Aspiration hazard                | Not applicable.  |
| Aspiration hazard                | Not applicable.  |

#### Numerical measures of toxicity - Product Information

| Unknown Acute Toxicity   | 15.5976% of the mixture consists of ingredient(s) of unknown toxicity |  |
|--|---|--|
| The following values are calculated based on chapter 3.1 of the GHS document |   |  |
| ATEmix (oral)  | 5065 mg/kg  |  |
| ATEmix (dermal)  | 2428 mg/kg  |  |
|  |   |  |

# 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

Toxic to aquatic life with long lasting effects

14.0976% of the mixture consists of components(s) of unknown hazards to the aquatic environment

|                                       | Mineral Oil -  |  |
|---------------------------------------|--|--|
| Algae/aquatic plants                  | -  |  |
| Fish                                  | 5000: 96 h Oncorhynchus mykiss mg/L LC50   |  |
| Crustacea                             | 1000: 48 h Daphnia magna mg/L EC50   |  |
|                                       | Silica -   |  |
| Algae/aquatic plants                  | 440: 72 h Pseudokirchneriella subcapitata mg/L EC50  |  |
| Fish                                  | 5000: 96 h Brachydanio rerio mg/L LC50 static  |  |
| Crustacea                             | 7600: 48 h Ceriodaphnia dubia mg/L EC50  |  |
| Amines, C12-14-alkyl, reaction produc | cts with hexanol, phosphorus oxide (P2O5), phosphorus sulfide (P2S5) and propylene oxide - 91745-46-9            |  |
| Algae/aquatic plants                  | -  |  |
| Fish                                  | 16 - 26: 96 h Pimephales promelas mg/L LC50 semi-static  |  |
| Crustacea                             | -  |  |
|                                       | Zinc, dithiophosphate di-C1-14-alkyl esters - 68649-42-3   |  |
| Algae/aquatic plants                  | -  |  |
| Fish                                  | 1.0 - 5.0: 96 h Pimephales promelas mg/L LC50 static 10.0 - 35.0: 96 h Pimephales promelas mg/L LC50 semi-static |  |
| Crustacea                             | 1 - 1.5: 48 h Daphnia magna mg/L EC50  |  |

#### Persistence and degradability

No information available.

#### **Bioaccumulation**

No information available.

#### **Mobility**

The product is insoluble and floats on water.

#### **13. DISPOSAL CONSIDERATIONS**

#### Waste treatment methods



| Disposal of wastes     | Disposal should be in accordance with applicable regional, national and local laws and regulations. |
|------------------------|---|
| Contaminated packaging | Empty containers should be taken for local recycling, recovery or waste disposal.                   |

# **14. TRANSPORT INFORMATION**

| DOT<br>UN-No:<br>Proper shipping name:<br>Hazard Class:<br>Packing group: | Not regulated by ground transportation only.<br>UN3077<br>ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.<br>((Z)-octadec-9-enylamine, Phenol, heptyl derivatives)<br>9<br>PGIII |
|---|---|
| <u>TDG</u>  | UN3077  |
| UN-No:  | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  |
| Proper shipping name:   | ((Z)-octadec-9-enylamine, Phenol, heptyl derivatives)   |
| Hazard Class:   | 9   |
| Packing group:  | PGIII   |
| IATA-DGR  | UN3077  |
| UN-No:  | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  |
| Proper shipping name:   | ((Z)-octadec-9-enylamine, Phenol, heptyl derivatives)   |
| Hazard Class:   | 9   |
| Packing group:  | PGIII   |
| IMO / IMDG  | UN3077  |
| UN/ID No.   | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  |
| Proper shipping name  | ((Z)-octadec-9-enylamine, Phenol, heptyl derivatives)   |
| Hazard Class  | 9   |
| Packing group   | PGIII   |
| EmS:  | F-A, S-F  |
| Marine pollutant  | Marine pollutant  |

### **15. REGULATORY INFORMATION**

| International Inventories |   |
|---------------------------|---|
| TSCA:                     | Listed in TSCA  |
| DSL:                      | All of the components in this product are listed in DSL |
| EINECS/ELINCS             | This product complies with EINECS/ELINCS                |
| CHINA:                    | This product complies with China IECSC.                 |
| KECL:                     | This product does not comply with Korea KECL.           |
| PICCS:                    | This product does not comply with Philippines PICCS.    |
| AICS:                     | This product does not comply with Australia AICS        |

Legend: TSCA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

#### Canada HPR Statement

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations and the SDS contains all the information required by the Hazardous Products Regulations (WHMIS 2015).

#### US Federal Regulations

#### <u>SARA 313</u>

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

| Components                                  | SARA 313 Threshold: |
|---|---------------------|
| Zinc, dithiophosphate di-C1-14-alkyl esters | Zinc compound (1%)  |
| SARA 311/312 Hazard Categories              |                     |
| Acute Health Hazard                         | Yes                 |
| Chronic Health Hazard                       | No                  |
| Fire Hazard                                 | No                  |
| Sudden release of pressure hazard           | No                  |
| Reactive Hazard                             | No                  |

#### CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

#### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

#### State Regulations (RTK)

#### California Proposition 65

This product does not contain any Proposition 65 chemicals

#### U.S. State Right-to-Know Regulations

| Components  | NJRTK:                     | MARTK:     | PARTK:  |
|---|----------------------------|------------|---------|
| Silica -  | Substance no. 3510 Listed. | Listed.    | Listed. |
| Zinc, dithiophosphate di-C1-14-alkyl esters -<br>68649-42-3 | Substance no. 3012 Listed  | Not Listed | Listed  |

#### U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

#### **16. OTHER INFORMATION**

<u>Nfpa:</u> Health: 2 Flammability: 1 Instability 0 NFPA/HMIS \* for Carc, Muta, Tera, Specific Organ \* <u>HMIS health rating:</u> Health: 2 Flammability: 1



Physical hazards 0 Personal protection B

| Issue Date     | 22-May-2017 |
|----------------|-------------|
| Revision Date  | 22-May-2017 |
| Revision Note  |             |
| Not applicable |             |
| Disclaimer     |             |

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet

