

Issue Date 09-Feb-2015

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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: 020232

UN-No: UN3077

Synonyms 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. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

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



Appearance Paste	Physical state Solid	Odor Mild
Precautionary Statements - Prevention		
Wash face, hands and any exposed skin thoroughly after handling		
Wear protective gloves/protective clothing/eye protection/face protection		
Avoid breathing dust/fume/gas/mist/vapors/spray		
Contaminated work clothing should not be allowed out of the workplace		
Eyes IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing		
If eye irritation persists: Get medical advice/attention		
Skin IF ON SKIN: Wash with plenty of soap and water		
Take off contaminated clothing and wash before reuse		
If skin irritation or rash occurs: Get medical advice/attention		
Precautionary Statements - Disposal		
Dispose of contents/container to an approved waste disposal plant		
Hazards not otherwise classified (HNOC)		
Other information		
• Toxic to aquatic life with long lasting effects		
Unknown Acute Toxicity		
15.5976% of the mixture consists of ingredient(s) of unknown toxicity		

3. COMPOSITION/INFORMATION ON INGREDIENTS

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Components	CAS-No	Weight %	Trade Secret
Distillates, petroleum, hydrotreated heavy naphthenic	64742-52-5	1 - 10%	*
Silica	Proprietary	0 - 10%	*
Amines, C12-14-alkyl, reaction products with hexanol, phosphorus oxide (P2O5), phosphorus sulfide (P2S5) and propylene oxide	91745-46-9	1 - 2.5%	*

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.
- Inhalation:** Move to fresh air in case of accidental inhalation of fumes from overheating or combustion. If symptoms persist, call a physician.
- Ingestion:** Do not induce vomiting. Consult a physician.

Most important symptoms and effects, 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 (NO_x). 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 containment 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 ³):	IDLH:
Distillates, petroleum, hydrotreated heavy naphthenic - 64742-52-5	5 mg/m ³ (oil mist)	5 mg/m ³ (oil mist)	
Silica -	-	0.8 mg/m ³	

Appropriate engineering controls

Engineering measures to reduce exposure: Ensure adequate ventilation, especially in confined areas.

Individual protection measures, such as personal protective equipment

Respiratory protection:	No personal respiratory protective equipment normally required.
Hand protection:	Impervious gloves
Eye protection:	Safety glasses with side-shields
Skin and body protection:	Usual safety precautions while handling the product will provide adequate protection against this potential effect
General Hygiene Considerations	Avoid contact with skin, eyes and clothing

9. PHYSICAL AND CHEMICAL PROPERTIES**Information on basic physical and chemical properties**

Physical state	Solid				
Appearance	Paste	Odor	Mild	Color	Red
				Odor threshold	No information available
Property	Values	Remarks • Method		pH	Not applicable
Melting point/freezing point	No information available			Boiling point / boiling range	No information available
Flash point	Not Applicable	ISO 2592		Evaporation rate	No information available
Flammability (solid, gas)	No information available			Flammability Limit in Air	
Upper flammability limit:	No information available			Lower flammability limit:	No information available
Vapor pressure	< 0.001 hPa, 20 °C			Vapor density	No information available
Specific Gravity	0.90			Water solubility	Insoluble in water
Solubility in other solvents	No information available			Partition coefficient	No information available
Autoignition temperature	No information available			Decomposition temperature	No information available
Kinematic viscosity	No information available			Dynamic viscosity	No information available
Explosive properties		No information available			
Oxidizing properties		No information available			

Other information

Softening point	No information available
Molecular weight	No information available
VOC Content (%)	No information available
Density	No information available
Bulk density	No information available

10. STABILITY AND REACTIVITY**Reactivity**

Not applicable

Chemical stability

Stability	Stable under normal conditions
Possibility of Hazardous Reactions	
Possibility of Hazardous Reactions	None under normal processing.
Hazardous polymerization	Hazardous polymerization does not occur.

Conditions to avoid

Conditions to avoid Heat, flames and sparks
Hazardous Decomposition Products

Hazardous Decomposition Products None under normal processing

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
Silica -	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 2.2 mg/L (Rat) 1 h
Amines, C12-14-alkyl, reaction products with hexanol, phosphorus oxide (P2O5), phosphorus 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.
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.

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 component(s) of unknown hazards to the aquatic environment

Distillates, petroleum, hydrotreated heavy naphthenic - 64742-52-5
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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 products 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	-

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**UN-No:**

Not regulated by ground transportation only.

UN3077

Proper shipping name:ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
((Z)-octadec-9-enylamine, Phenol, heptyl derivatives)**Hazard Class:**

9

Packing group:

PGIII

IATA-DGR**UN-No:**

UN3077

Proper shipping name:ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
((Z)-octadec-9-enylamine, Phenol, heptyl derivatives)**Hazard Class:**

9

Packing group:

PGIII

IMO / IMDG**UN/ID No.**

UN3077

Proper shipping nameENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
((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 does not comply 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/NDL - 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

Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

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:
Distillates, petroleum, hydrotreated heavy naphthenic - 64742-52-5	Substance no. 1437 Listed. Substance no. 4004 Listed.	Not Listed	Not Listed
Silica -	Substance no. 3510 Listed.	Listed.	Listed.

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. OTHER INFORMATION

Nfpa:

Health: 2

Flammability: 1
Instability 0
NFPA/HMIS * for Carc, Muta, Tera, Specific Organ *
HMIS health rating:
Health: 2
Flammability: 1
Physical hazards 0
Personal protection B

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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
