

SAFETY DATA SHEET

Issue Date 17-Jul-2019

Revision Date 17-Jul-2019

Version 3

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

Product identifier

Product Name MICROLUBE GB 00

Other means of identification

 Product code:
 020236

 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 NCEC: 1-215-207-0061

2. HAZARD IDENTIFICATION

Classification

OSHA Regulatory Status

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

OL:	
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2
	Category 2
Skin sensitization	outegory 2
SKIT SCHSILLZALION	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

3. COMPOSITION/INFORMATION ON INGREDIENTS

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

Chemical name	CAS No.	Weight-%	Trade Secret
Mineral Oil	Proprietary	60 - 80%	*
Amines, C12-14-alkyl, reaction products with hexanol, phosphorus oxide (P2O5), phosphorus sulfide (P2S5) and propylene oxide	91745-46-9	1 - 5%	*
Zinc, dithiophosphate di-C1-14-alkyl esters	68649-42-3	1 - 5%	*
9-octadecenylamine	112-90-3	0.1 - 1%	*

^{*}The exact percentage (concentration) of composition has been withheld as a trade secret.

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.

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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 (NOx). Sulfur 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. Avoid subsoil penetration.

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

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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

Chemical name	ACGIH TLV	OSHA (TWA mg/m³):	IDLH:
Mineral Oil -	5 mg/m³ (oil mist)	5 mg/m³ (oil mist)	

Appropriate engineering controls

Engineering measures to reduce

Ensure adequate ventilation, especially in confined areas.

exposure:

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 brown Odor thresholdNo information available

Property

point

Values No information Remarks • Method

Not classified

Melting point/freezing available Boiling point / No information boiling range available

Evaporation No information

Flash point Not Applicable ISO 2592 Flammability No information

rate available **Flammability** Limit in Air

(solid, gas) available Upper No information

Lower No information flammability available

flammability available limit:

limit:

Vapor < 0.001 hPa, 20 °C

Vapor density No information

pressure

available

Specific 0.90 Gravity

Water Insoluble in solubility water **Partition**

Solubility in No information other solvents available Autoignition No information temperature available **Kinematic** No information viscosity available

No information coefficient available **Decomposition**No information temperature available Dynamic No information viscosity available

Explosive properties No information available Oxidizing properties No information available

Other information

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

10. STABILITY AND REACTIVITY

Reactivity

Not classified

Chemical stability

Stability Stable under normal conditions

Possibility of Hazardous Reactions

Possibility of Hazardous None under normal use conditions.

Reactions

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 use conditions

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.

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

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.

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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.

Reproductive toxicity

This product does not contain any known or suspected reproductive hazards.

STOT - single exposure STOT - repeated exposure None under normal use conditions.

None under normal use conditions.

Aspiration hazard

Not classified.

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)

5151 mg/kg

ATEmix (dermal)

2247 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

	Mineral Oil -		
Algae/aquatic plants	<u>-</u>		
Fish	5000: 96 h Oncorhynchus mykiss mg/L LC50		
Crustacea	1000: 48 h Daphnia magna mg/L FC50		
Amines, C12-14-alkyl, reaction produ	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

Not regulated by ground transportation only.

UN-No:

UN3077

Proper shipping name:

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

((Z)-octadec-9-enylamine)

Hazard Class:

Packing group:

PGIII

TDG

UN-No:

UN3077

Proper shipping name:

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

((Z)-octadec-9-enylamine)

Hazard Class: Packing group:

PGIII

IATA-DGR UN-No:

UN3077

Proper shipping name:

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

((Z)-octadec-9-enylamine)

Hazard Class:

Packing group:

PGIII

IMO / IMDG

UN/ID No.

UN3077

Proper shipping name

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

((Z)-octadec-9-enylamine)

Hazard Class

Packing group

PGIII

EmS:

F-A, S-F

Marine pollutant

Marine pollutant

15. REGULATORY INFORMATION

SARA 313

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

Chemical name	SARA 313 Threshold: Zinc compound (1%)	
Zinc, dithiophosphate di-C1-14-alkyl esters		
SARA 311/312 Hazard Categories	(1/0)	
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

Chemical name	NJRTK:	MARTK:	PARTK:
Zinc, dithiophosphate di-C1-14-alkyl esters - 68649-42-3	Substance no. 3012 Listed	Not Listed	Listed

U.S. EPA Label Information

EPA Pesticide Registration Number Not classified

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

Reason for revision: None

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