

EC-MATERIAL SAFETY DATA SHEET		Page : 1/4 Date : 01.11.2018 Revision: 2
1	Identification of the substance/preparation and company	
1.1	Trade name UNILUBE 9107	
1.2	Use/application Non-water soluble, high performance lubricant. The product is intended for direct use in minimal lubrication systems by means of locally limited microscopic lubrication film application; standard ventilation of the facility is regarded to be sufficient.	
1.3	Manufacturer/Supplier UNILUBE AG, Minimalschmiertechnik, Bächlistrasse 14 a, CH-8280 Kreuzlingen / Switzerland Telephone-No. +41-71 672 65 22 / Fax-No. +41-71 672 65 32 / Web www.unilube.ch	
1.4	Information Service Application technology : Herr A. Brecht, Dipl.-Ing. (FH) Product safety : Herr W. Holweger, Dr. Dipl.-Chem. Telephone-No. +41-71 672 65 22 / Fax-No. +41-71 672 65 32 / E-Mail info@unilube.ch	
2	Hazard identification	
2.1	Indication of danger No hazardous contents according to Regulation 1272/2008/EC. Not classified as hazardous according to Directive 67/548/EEC.	
2.2	Special hazard information for humans and the environment This product is not hazardous for humans and the environment in the case of correct use. Refer to Section 8 for personal protection.	
3	Composition/Information on ingredients	
3.1	Chemical characterization Mixture	
3.2	Chemical characterization of the preparation Mixture of non-ionic surfactants and active agents.	
3.3	Components not included in the product The product is free of mineral oil and PCB/PCT, it does not contain any amines, boron, chlorine, nitrate, nitrite, phosphorus, sulfur, silica, heavy metals or heavy metal compounds and raw materials of animal origin. For further details see Section 15.6.	
4	First aid measures	
4.1	General guidelines In case of queries, contact the relevant departments, see Section 1.4. The valid guidelines for the handling of operational substances and chemical products have to be ensured.	
4.2	If inhaled Take the person to fresh air. Consult a medic.	
4.3	If on skin Remove contaminated clothing immediately. Wash affected skin immediately with soap and water.	
4.4	If in eyes In case of eye contact, rinse eyes immediately with plenty of water. Consult a medic.	
4.5	If swallowed Do not induce vomiting; rinse out mouth thoroughly and consult a medic.	
5	Firefighting measures	
5.1	Extinguishing media Foam, firefighting powder, carbon dioxide (CO ₂), sand	
5.2	Unsafe extinguishing media Water jet	
5.3	Special hazards caused by the product, its preparation, its combustion products or any gases formed The product is not hazardous assuming intended use. Do not breathe spray mist or combustion gases. Take measures to prevent static electricity. For gases and storage see Sections 5.4, 7.2.2, 7.3, 8.4 and 10.4.	
5.4	Special protective measures for firefighters Use appropriate protective clothing. Do not inhale spray, explosion and combustion gases.	
5.5	Additional information Water spray can be used for cooling of unaffected containers. For further details see Section 5.2.	

6 Accidental release measures

6.1 General guidelines

In the case of severe leakage of product, inform the fire service.

6.2 Personal precautions

Spilled product may be slippery on ground.

6.3 Environmental protection measures

Prevent spreading (e.g., by use of spill barriers).

Must not be allowed to enter the substrate/soil/bodies of water/sewers/groundwater/etc.

6.4 Procedure for cleaning/collection

Soak up using an absorbent (e.g., oil-binding agent, sawdust).

Remove from water surface (skimming, pumping).

7 Handling and storage

7.1 General guidelines

Observe the usual safety precautions for handling chemicals.

7.2 Handling

7.2.1 Safety Information

No specific measures required provided intended use. Avoid formation of oil mist.

7.2.2 Fire and explosion protection

No specific measures required. Hot product forms flammable gases/vapors.

7.3 Storage

7.3.1 Storage room and container requirements

Prevent penetration into the soil and on ground.

Use only approved containers (as supplied) and keep containers tightly sealed.

7.3.2 Combined storage restrictions

Do not store with animal foodstuffs.

Do not store with foodstuffs.

Do not store with oxidizing agents.

7.3.3 Further information regarding storage

Protect against heat/overheating and contamination.

Recommended storage temperature: Room temperature (ca. 10 – 20 °C)

Recommended shelf-life : Sealed containers can be stored up to 36 months under appropriate conditions.

8 Exposure controls and personal protection

8.1 Additional information regarding the installation of engineering units

Observe the following German regulations or equivalent: Technical Rules for Hazardous Materials (TRGS), Ordinance on Facilities Used for Containment, Handling and Filling of Substances Hazardous to Water (VAWS), Technical Rules for Flammable Liquids (TRbF), the Water Resources Act (WHG) and the Water Resources Law of the respective federal state.

8.2 Components with workplace-related, monitored limits

No data available.

8.3 Personal protection equipment

The use of personal protection as per Sections 8.4, 8.5, 8.6 and 8.7 is recommended.

8.4 Respiratory protection

Do not inhale vapors or gases; use respiratory protection in cases of aerosol or mist formation.

8.5 Hand protection

When handling, oil-resistant, protective gloves made of nitrile rubber latex (NBR) are recommend.

8.6 Eye protection

Wear protective glasses in case of mist formation.

8.7 General protection and hygiene measures

Avoid contact with eyes and skin. Remove soiled and soaked clothing immediately.

Wash hands before breaks and when finishing work. Do not eat, drink or smoke while working. Take care of skin protection. Standards in the use of chemicals have to be ensured.

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9 Physical and chemical properties
9.1 Appearance
9.1.1 Aggregate State

liquid

9.1.2 Color

colorless

9.1.3 Odor

slightly ether-like

9.2 Relevant safety data
Value/range
Unit
Method
9.2.1 State change: Pour point

< - 20

°C

9.2.2 Flashpoint

> 139

°C

DIN 51758

9.2.3 Ignition temperature

~ 250

°C

9.2.4 Spontaneous ignition

no data available

9.2.5 Explosion hazard

 no data available,
 contains no
 explosive components

9.2.6 Explosive limits

no data available

9.2.7 Vapor pressure

< 1

hPa

9.2.8 Density (at 20 °C)

~ 0.8

 g/cm³

DIN 51757

9.2.9 Water solubility

insoluble

9.2.10 Partition coefficient: UNILUBE 9107/H₂O

POW 6.5

OECD PRL 117

9.2.11 Solubility in other solvents

soluble in most organic solvents.

9.2.12 pH-value: aqueous solution (at 20 °C)

not applicable

**9.2.13 Viscosity (at 20 °C)
(at 40 °C)**

~ 35

 mm²/s

no data available

9.2.14 Solvent content

the product contains no solvents.

10 Stability and reactivity
10.1 General guidelines

The product is stable and non-reactive when properly stored and handled.

10.2 Conditions to avoid

Storage and reactions with oxidizing agents.

10.3 Substances to avoid

Oxidizing agents and reactions with acids and bases.

10.4 Hazardous decomposition products

No hazardous decomposition products provided intended use.

10.5 Additional data

 Thermal decomposition products are gases including carbon monoxide (CO), carbon dioxide (CO₂).

11 Toxicology data
11.1 Acute toxicity

 LD₅₀ Rat oral

> 2'000 mg/kg body weight

11.2 Specific symptoms in animal tests
11.2.1 Primary skin irritation

Slightly irritating (OECD-Method 404)

11.2.2 Primary eye irritation

Slightly irritating (OECD-Method 405)

11.3 Information on genotoxicity and carcinogenicity

The product is not classified as toxic to reproduction, carcinogen or teratogenic.

11.4 Other data

Registration in Switzerland

 SZID 182445 (material preparation ID. Number)
 for commercial use and non-hazardous.
 Federal Ministry of Health (BAG), CH-3097 Liebefeld

12 Ecology data
12.1 Aquatic toxicity
12.1.1 Biodegradability

Easily biodegradable and low aquatic toxicity.

12.1.2 Fish toxicity acute LC₅₀

> 100 mg Product/l (DIN 38412)

12.2 General information

Product shall not enter the environment. Contaminated wastewater has to be treated before it is released in the sewage system. For Biomobility see Section 9.2.10.

13 Disposal information

13.1 Recommendation

After treatment of the hazardous waste, it has to be introduced in a hazardous waste landfill or a hazardous waste incinerator, according to the hazardous waste regulations.

13.2 Waste classification according to "EAK" (European Waste Catalog)

Waste code 07 06 99
 Waste name Synthetic processing oils

13.3 Unclean packages

Packages that cannot be cleaned must be disposed of according to the applicable regulations.

14 Transportation information

14.1 Regulations on transportation

The product is not hazardous with regard to national/international road-, rail-, ship-, and air transport. The transport of the product is not associated with any particular conditions.

14.2 Other Information

Factory filling in recyclable containers	5 liters	25 liters	200 liters
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15 Regulations

15.1 Classification according to the EEC-Directive

According to EC-directives (hazardous waste regulation), the product does not need to be labeled.

15.2 Hazard classification

None, the product does not have to be labeled according to GHS (CLP).

15.3 Hazard determining components for labeling

None

15.4 Special classification

The product is not subject to mandatory labeling in line with R- and S -phrases, special labeling of certain specified preparations, usability limits, Major Accidents Ordinance, VbF classification and the Technical Guidelines on Air Quality Control.

15.5 Water hazard class

No data available, the product is not hazardous to water (self-leveling).

15.6 Directive 1999/13/EC (VOC)

The product does not contain any materials subject to the VOC ordinance.

16 Other information

16.1 Further information

UNILUBE 9107 is not associated with any human health hazard in the case of appropriate handling and application. The details provided in this document do not discharge the user from his/her responsibility to act with due care.

All details relate to the current state of art and to the product in supplied state.

These documents serve the purpose of describing our products from the point of view of safety requirements and thus do not constitute an assurance of specific characteristics.

16.2 Issuing department of MSDS

See Section 1.3 and 1.4

16.3 Regulation 1907/2006/EG (REACH)

Provided intended use (see Section 1.2), the volume threshold of 1'000 kg/year is not reached; the materials are thus not subject to regulatory controls in line with REACH.

16.4 Basis of data and reason of the revision

The reason of revision is various changes to EU Directives and the REACH regulations.