

# EC-MATERIAL SAFETY DATA SHEET

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Date : 01.01.2012  
Revision : 2

## 1 Identification of the substance/preparation and company

### 1.1 Trade name

**UNILUB 2032**

### 1.2 Use/application

Non-water soluble, high performance lubricant.

The product is intended for direct use in case of minimal lubrication systems by means of locally delimited microscopic lubrication film application; standard ventilation of the facility is regarded as sufficient.

### 1.3 Manufacturer/Supplier

UNILUBE AG, Minimalschmiertechnik, Bächlistrasse 14 a, CH-8280 Kreuzlingen / Switzerland  
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### 1.4 Information service

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## 2 Hazards identification

### 2.1 Indication of danger

No hazardous contents in accordance with Regulation 1272/2008/EC.

Not classified as hazardous in accordance with Directive 67/548/EEC.

### 2.2 Special hazard information for humans and the environment

Assuming intended use, this product is not classifiable as hazardous for humans and the environment. Refer to Section 8 for personal protection.

## 3 Composition/Information on ingredients

### 3.1 Chemical characterization

Preparation (mixture of materials)

### 3.2 Chemical characterization of the preparation

Mixture of esters, manufactured from natural fatty acids (> C16) and sterically hindered alcohols.

### 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, silicon, heavy metals or heavy metal compounds. For further details see Section 15.6.

## 4 First-aid measures

### 4.1 General guidelines

Remove contaminated clothing immediately.

### 4.2 If inhaled

Remove victim to fresh air and make sure victim is comfortable. Consult a doctor in case of symptoms.

### 4.3 If on skin

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 doctor in case of symptoms.

### 4.5 If swallowed

Do not induce vomiting; rinse out mouth thoroughly and consult a doctor.

## 5 Fire-fighting measures

### 5.1 Extinguishing Media

Foam, fire-fighting powder, carbon dioxide (CO<sub>2</sub>), sand

### 5.2 Unsafe extinguishing material

Water jet

### 5.3 Special hazards caused by the product, its preparation, its combustion products or any gases formed

Assuming intended use, the product is not classifiable as hazardous. For gases see Section 5.4.

### 5.4 Special protective measures for fire-fighters

Explosion and combustion gases must not be inhaled.

### 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**

If large quantities escape, inform the fire service.

**6.2 Personal precautions**

Spilled product can be slippery.

**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 Handling****7.1.1 Safety Informations**

No specific measures required in case of intended use. Avoid formation of oil spray.

**7.1.2 Fire and explosion protection**

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

**7.2 Storage****7.2.1 Storage room and container requirements**

Avoid penetration into the soil.

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

**7.2.2 Restrictions on combined storage**

Do not store with animal foodstuffs.

Do not store with foodstuffs.

Do not store with oxidizing agents.

**7.2.3 Further information regarding storage**

Protect against heat/overheating and contamination.

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

Recommended shelf-life : Closed containers can be stored for up to 24 months under suitable 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 occupational levels that must be monitored**

None

**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; use respiratory protection in cases of aerosol or spray formation.

**8.5 Hand protection**

When handling, the use of oil-resistant, protective gloves made of nitrile rubber latex is recommend.

**8.6 Eye protection**

Wear protective glasses in case of spray formation.

**8.7 General protection and hygiene measures**

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

Wash your hands before breaks and after finishing work. No food, drinks, or smoking on the job.

Use cream for skin protection. Exercise due caution when handling chemicals.

**9 Physical and chemical properties**

**9.1 Appearance**

- 9.1.1 **Aggregate State** liquid
- 9.1.2 **Colour** yellow
- 9.1.3 **Odor** slight odor

**9.2 Relevant safety data**

	<b>Value/range</b>	<b>Unit</b>	<b>Method</b>
9.2.1 <b>State change:</b> Pour point	< - 30	°C	DIN-ISO 3016
9.2.2 <b>Flashpoint</b>	> 250	°C	DIN-ISO 2592
9.2.3 <b>Ignition temperature</b>	not determined		
9.2.4 <b>Spontaneous ignition</b>	not determined		
9.2.5 <b>Explosion hazard</b>	not determined		
9.2.6 <b>Explosive limits</b>	not determined		
9.2.7 <b>Vapor pressure</b>	< 1	hPa	
9.2.8 <b>Density (at 20 °C)</b>	~ 0.91	g/cm <sup>3</sup>	DIN 51757
9.2.9 <b>Water solubility</b>	not soluble		
9.2.10 <b>Solubility in other solvents</b>	soluble in most organic solvents.		
9.2.11 <b>pH-value:</b> aqueous solution (at 20 °C)	5.6		Phase separation
9.2.12 <b>Viscosity</b> (at 20 °C) (at 40 °C)	not determined ~ 35	mm <sup>2</sup> /s	DIN 51562
9.2.13 <b>Solvent content</b>	the product contains no solvents.		

**10 Stability and reactivity**

**10.1 Conditions to be avoided**

Storage and reactions with oxidizing agents.

**10.2 Substances to be avoided**

Oxidizing agents and reactions with acids and bases.

**10.3 Hazardous decomposition products**

No hazardous decomposition products in case of intended use.

**10.4 Additional data**

Thermal decomposition products are gases including carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>).

**11 Toxicology data**

**11.1 Acute toxicity**

LD 50 Rat oral > 2'000 mg/kg body weight

**11.2 Specific symptoms in animal tests**

- 11.2.1 Primary skin irritations Classified as non irritant (OECD-Method 404)
- 11.2.2 Primary eye irritation Classified as moderate irritant (OECD-Method 405)

**11.3 Other data**

Registration in Switzerland  
SZID 182444 (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 (OECD-Method 301)
- 12.1.2 Fish toxicity acute LC 50 > 100 mg Product/l (ISO 7346/2)

**12.2 General information**

Product must not enter the environment. Contaminated wastewater must be treated before its discharge in the sewage system.

**13 Disposal information**

**13.1 Recommendation**

After prior treatment of the hazardous waste, this must 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 Uncleaned packages**

Packages that cannot be cleaned must be disposed of according to the corresponding 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 Informations**

Original filling in recycling containers	5 liters	25 liters	200 liters
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UN-permit number	3H1/X/250/CH-2521	3H1/X/250/CH-2527	1A1/X/2.0/400/CH-2024

**15 Regulations**

**15.1 Classification according to the EEC -Directive**

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

**15.2 Hazard classification**

None

**15.3 Hazard determining components for labelling**

None

**15.4 Special classification**

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

**15.5 Water hazard class**

WHC Product not hazardous to water (water hazard classes dated 17.05.1999, Annex 3)

**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**

Based on current experience and available information, and assuming appropriate handling and application, UNILUB 2032 is not associated with any human health hazard. 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 as-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)**

The materials are pre-registered. In case of 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 (TS 3029.02 E) is various changes to EU Directives and the REACH regulations.