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Reviewed on 06/01/2010

## 1 Identification of substance

- **Product details**
- **Trade name:** **BLASOLUBE® Moly-special**
- **Article number:** 00315-01
- **Application of the substance / the preparation:** For industrial use only
- **Manufacturer/Supplier:**  
Blaser Swissslube AG  
Winterseistrasse 22  
CH-3415 Hasle-Rüegsau  
+41 (0)34 460 01 01
- **Information department:**  
Product safety dept.  
sdb@blaser.com  
reach@blaser.com
- **Emergency information:**  
Abbreviated dialing: 145 (or: ++41 (0)44/ 251 51 51) Toxicological Info-Centre CH-Zurich

## 2 Composition/Data on components

- **Description:**  
Mineral oil containing lubricating grease with bentonite as thickener and with added molybdenum disulphide.

- **Declarable components:**

64742-01-4	Lubricating oils (petroleum), > C25, light, hydrotreated.	30-50%
95-38-5	Imidazoline - derivative	0.1-0.5%
90-30-2	N-1-naphthylaniline	< 0.25%

## 3 Hazards identification

- **Information pertaining to particular dangers for man and environment:**  
The product has to be labelled due to the calculation procedure of international guidelines. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- **Classification system:**  
The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.
- **NFPA ratings (scale 0 - 4)**



Health = 0  
Fire = 1  
Reactivity = 0

- **HMIS-ratings (scale 0 - 4)**



Health = 0  
Fire = 1  
Reactivity = 0

## 4 First aid measures

- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Generally the product does not irritate the skin.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** If symptoms persist consult doctor.

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### 5 Fire fighting measures

- **Suitable extinguishing agents:**  
CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Protective equipment:** No special measures required.

### 6 Accidental release measures

- **Person-related safety precautions:** Not required.
- **Measures for environmental protection:**  
Inform respective authorities in case of seepage into water course or sewage system.  
Do not allow to enter sewers/ surface or ground water.
- **Measures for cleaning/collecting:** Pick up mechanically.

### 7 Handling and storage

- **Handling:**
- **Information for safe handling:**  
The product has been classified and marked in accordance with directives on hazardous materials. Observe the general safety regulations when handling chemicals.
- **Information about protection against explosions and fires:** No special measures required.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store only in the original receptacle.
- **Information about storage in one common storage facility:** Store away from oxidizing agents.
- **Further information about storage conditions:**  
Protect from heat and direct sunlight.  
Duration of storage: In original container, at least 3 years.  
Storage temperature between 32°F and 104°F

### 8 Exposure controls and personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Components with limit values at the workplace:**  
TLV value (oil mist) CH: 5 mg/m<sup>3</sup>

#### 1317-33-5 Molybdenum sulfide (MoS<sub>2</sub>) (10-20%)

TLV	10* 3** mg/m <sup>3</sup> as Mo; *inhalable fraction ** respirable fraction
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- **Additional information:** The lists that were valid during the creation were used as basis.
- **Personal protective equipment:**
- **General protective and hygienic measures:** Wash hands before breaks and at the end of work.
- **Respiratory Protection:** Not required.
- **Material of gloves**  
Suitable protective gloves: Nitril gloves, minimum thickness of 0.3 mm, e.g. Ultranitril type 491. Corresponds to the standards DIN/EN 374-2 and 374-3.
- **Break-trough time of glove material:**  
The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:** Eye protector with side protection (framed eyeglasses) EN 166
- **Body protection:** Protective work clothing

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**9 Physical and chemical properties (typical data)**

· **General Information**

**Form:** Pasty  
**Color:** Grey-black  
**Odor:** Mineral-oil-like

· **Change in condition**

**Melting point/Melting range:** Not applicable  
**Drip point:** not determined or not disposable

· **Flash point:** (Value for the processed mineral-, ester- or synthetic oil)  
> 392°F  
(> 200°C) ASTM D92

· **Ignition temperature:** Not applicable

· **Auto igniting:** Product is not selfigniting.

· **Danger of explosion:** Product does not present an explosion hazard.

· **Density:** 1.13 g/cm3 @ 68°F (20°C) ASTM D1217

· **Solubility in / Miscibility with Water:** Insoluble.

· **Viscosity:**  
**Penetration:** 220 - 240 mm/10 @ 20°C (68°F) ASTM D 217

· **Additional information:** safety relevant data, which has to be considered as product specifications.

**10 Stability and reactivity**

- **Thermal decomposition / conditions to be avoided:**  
Can decompose slowly with localized heating above 350°F. (°C.)
- **Materials to be avoided:**
- **Dangerous reactions:** Reacts with strong oxidizing agents.
- **Dangerous products of decomposition:**  
Carbon monoxide and carbon dioxide  
Sulfur oxides (SOx)

**11 Toxicological information**

- **Acute toxicity:**
- **LD/LC50 values that are relevant for classification:**  
2000 - 5000 mg / kg (oral, rat)  
> 5,100 mg/m3 4h (inhalation, rat)

**90-30-2 N-1-naphthylaniline**

Oral	LD50	1625 mg/kg (rat)
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- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.

**12 Ecological information**

- **Ecotoxicological effects:**
- **Remark:** Harmful to fish

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- **Additional ecological information:**
- **General notes:**  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.  
Harmful to aquatic organisms

### 13 Disposal considerations

- **Product:**
- **Recommendation:**  
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

### 14 Transport information

- **DOT regulations:**
- **Hazard class:** -
- **Land transport ADR/RID (cross-border):**
- **ADR/RID class:** -
- **Maritime transport IMDG:**
- **IMDG Class:** -
- **Marine pollutant:** No
- **Air transport ICAO-TI and IATA-DGR:**
- **ICAO/IATA Class:** -
- **Transport/Additional information:** Not dangerous according to the above specifications.

### 15 Regulations

- **Sara**
- **Section 355 (extremely hazardous substances):**  
None of the ingredients is listed.
- **Section 313 (Specific toxic chemical listings):**  
This product does not contain a chemical that is listed in Section 313 above de minimis concentrations.
- **TSCA (Toxic Substances Control Act):**  
None of the substances are listed  
All ingredients are listed.
- **California Proposition 65**
- **Listed substances:**  
None of the ingredients is listed.
- **Chemicals known to cause reproductive toxicity for females:**  
None of the ingredients is listed.
- **Chemicals known to cause reproductive toxicity for males:**  
None of the ingredients is listed.
- **Chemicals known to cause developmental toxicity:**  
None of the ingredients is listed.

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· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

· **IARC (International Agency for Research on Cancer)**

None of the ingredients is listed.

· **NTP (National Toxicology Program)**

None of the ingredients is listed.

· **TLV (Threshold Limit Value established by ACGIH)**

None of the ingredients is listed.

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

· **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

· **Product related hazard informations:**

The product has been classified and marked in accordance with directives on hazardous materials.

**16 Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **RoHS:**

This product conforms to the RoHS Directive in that the RoHS regulated materials are absent or their concentrations are significantly below regulatory thresholds.

· **IP346:**

The contained refined mineral oils are exempt of labeling.

The content of polycyclic aromatic hydrocarbons (PCA) according to IP346 is <3% (DMSO-extract).

· **International Approvals:**

TSCA (Toxic Substances Control Act, United States): all substances are registered and have CAS numbers.

DSL (Canada): all substances are registered or listed.

· **The product does not contain:**

PCB, PCT, TCDD (tetrachlorodibenzodioxin) and other dioxin-like substances.

· **Department issuing MSDS:** Product Safety Department

· **Contact:** Mr. Frei

· **Abbreviations and acronyms:** RoHS: Restriction of Hazardous Substances

· \* **Data compared to the previous version altered.**