

MATERIAL SAFETY DATA SHEET CE 1907/2006

1. Identification of the substance/preparation and the company

Product name: HOSE LUBRICANT

Additional data: USE: Food Grade – Pump lubricant / Coolant

Company identification:

Bombas Boyser S.L.
Narcís Monturiol, 24
08187 Sta. Eulalia de Ronçana
Telf. 93 844.77.78
e-mail: info@boyser.com

Packing and article identification:

Item number	Description
LUBR-2	LUBRICANT 2 LITER
LUBR-5	LUBRICANT 5 LITER
LUBR-10	LUBRICANT 10 LITER
LUBR-20	LUBRICANT 20 LITER
LUBR-25	LUBRICANT 25 LITER
LUBR-200	LUBRICANT 200 LITER

Emergency phone: (34) 93 844.77.78

2. Hazards identification

No hazardous product as specified in Directive 67/548/EEC.

3. Composition/information on ingredients

Synonyms: Glycerin based blend

CAS N°: 56-81-5

CE N°: 200-289-5

M: 92.10 g/mol

Formula: Glycerin based blend

4. First-aid measures

After inhalation:

Fresh air.

After skin contact :

Wash off with plenty of water. Remove contaminated clothing.

After eye contact:

Rinse out with plenty of water with the eyelid held wide open.

After swallowing:

Make victim drink plenty of water. Consult doctor if feeling unwell.

5. Fire-fighting measures

Suitable extinguishing media :

Water, CO₂, foam, powder.

Special risks:

Combustible. Vapours heavier than air.

Forms explosive mixtures with air on intense heating.

Development of hazardous combustion gases or vapours possible in the event of fire. The following may develop in event of fire: Acrolein.

Special protective equipment for fire fighting :

Do not stay in dangerous zone without self-contained breathing apparatus. In order to avoid contact with skin, keep a safety distance and wear suitable protective clothing.

Other information:

Cool container with spray water from a safe distance. Contain escaping vapours with water. Prevent fire-fighting water from entering surface water or groundwater.

6. Accidental release measures

Person-related precautionary measures :

Do not inhale vapours/aerosols.

Environmental-protection measures:

Do not allow to enter sewerage system.

Procedures for cleaning / absorption:

Take up with liquid-absorbent material. Forward for disposal. Clean up affected area.

7. Handling and storage**Handling:**

No further requirements.

Storage:

Tightly closed. At +5°C to +30°C.

8. Exposure controls/Personal protection**Personal protective equipment :**

Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.

- Respiratory protection :

Required when vapours/aerosols are generated. Filter A-(P2).

- Eye protection:

Required

- Hand protection:**In full contact:**

Glove material: nitrile rubber

Layer thickness: 0.11 mm

Breakthrough time: > 480 Min.

In splash contact:

Glove material: nitrile rubber

Layer thickness: 0.11 mm

Breakthrough time: > 480 Min.

The protective gloves to be used must comply with the specifications of EC directive 89/686/EEC and the resultant standard EN374

Industrial hygiene:

Change contaminated clothing. Wash hands after working with substance.

9. Physical and chemical properties

Form: liquid

Colour: colourless

Odour: odourless

pH value at 100 g/l H₂O (20 °C) ~ 5

Viscosity dynamic (20 °C) 1412 mPa*s

Melting point 18 °C

Boiling point (1013 hPa) 290 °C (decomposition)

Ignition temperature 400 °C

Flash point ~ 180 °C o.c. / 199 °C c.c.

Explosion limits

- Lower 2.6 Vol%
- Upper 11.3 Vol%

Vapour pressure (20 °C) < 0.001 hPa

Relative vapour density 3.18

Density (20 °C) 1.26 g/cm³

Solubility in water (20 °C) soluble

Thermal decomposition > 290 °C

log Pow -1.76 (Lit.)

10. Stability and reactivity

Conditions to be avoided:

Strong heating.

Substances to be avoided:

Risk of explosion with: halogens, strong oxidizing agents, peroxide compounds, nitric acid / conc. sulfuric acid, hydrogen peroxide, perchlorates, nitriles.

Risk of ignition or formation of inflammable gases or vapors with:

CrO₃, potassium permanganate, halogen oxides, hydrides.

Exothermic reaction with :

Phosphorus oxides.

Hazardous decomposition products in the event of fire :

See chapter 5.

Further information

hygroscopic.

Forms explosive mixtures with air on intense heating.

11. Toxicological information

Acute toxicity

LD50 (dermal, rabbit): >18700 mg/kg (IUCLID).

LD50 (oral, rat): 12600 mg/kg (IUCLID).

Specific symptoms in animal studies :

- Eye irritation test (rabbit):

No irritation (OECD 405).

- Skin irritation test (rabbit):

No irritation (IUCLID).

Subacute to chronic toxicity

- Sensitization:

Patch test (humans): negative. (IUCLID)

- Bacterial mutagenicity :

Ames test: negative. (in vitro) (IUCLID)

Further toxicological information

- After inhalation of vapours :

Slight irritations of: respiratory tract, lungs.

- After swallowing of large amounts :

Vomiting, gastric pain, headache, dizziness, diarrhoea, cyanosis.

Further data

Naturally occurring substance.

The product should be handled with the care usual when dealing with chemicals.

12. Ecological information

Biologic degradation:

Biodegradation: 63 % /14 d (OECD 301 C).

Readily biodegradable (reduction: DOC >70 %; BOD >60 %; BOD5 to COD >50 %).

Behavior in environmental compartments :

Distribution: log Pow: -1.76 (experimental) (Lit.).

No bioaccumulation is to be expected (log Pow <1).

Ecotoxic effects:

- Biological effects:

Fish toxicity: *C. auratus* LC50: >5000 mg/l /24 h (Lit.).

Daphnia toxicity: *Daphnia magna* EC50: >10000 mg/l /24 h (IUCLID).

- Maximum permissible toxic concentration :

Algal toxicity: *Sc. quadricauda* IC5: >10000 mg/l /7 d (Lit.).

Bacterial toxicity: *Ps. putida* EC5: >10000 mg/l /16 h (Lit.).

Protozoa: *E. sulcatum* EC5: 3200 mg/l /72 h (Lit.).

Further ecologic data :

BOD 71 % from TOD /5 d (Lit.).

COD 95 % from TOD (Lit.).

TOD: 1.217 g/g (Lit.).

No ecological problems are to be expected when the product is handled and used with due care and attention.

13. Disposal considerations

Product:

Chemicals must be disposed of in compliance with the respective national regulations.

Packaging:

Product packaging must be disposed of in compliance with the country-specific regulations or

must be passed to a packaging return system.

14. Transport information

Not subject to transport regulations.

15. Regulatory information

Labelling according to EC Directives

- **Symbol:**

- **R-phrases:**

- **S-phrases:**

16. Other information

The information contained within this material safety data sheet is based on our current knowledge and on the national and EU legislation in force , meaning that user's work conditions are out of our knowledge and control . The product must not be used for any purpose other than those specified , without having a previous written handling instruction. The user is always responsible for taking the appropriate measures in order to ensure the enforcement of the law . The information within this material safety data sheet is only a description of the product safety requirements and is not to be considered as warranty of property identification .