

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.
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Packing and article identification:

Item number	Description
LUBRFOOD-2	LUBRICANT FOOD GRADE 2 LITER
LUBRFOOD-5	LUBRICANT FOOD GRADE 5 LITER
LUBRFOOD-10	LUBRICANT FOOD GRADE 10 LITER
LUBRFOOD-20	LUBRICANT FOOD GRADE 20 LITER
LUBRFOOD-25	LUBRICANT FOOD GRADE 25 LITER
LUBRFOOD-200	LUBRICANT FOOD GRADE 200 LITER

Emergency phone: (34) 93 844.77.78

2. Hazards identification

2.1 Classification of the substance or mixture

Classification (67/548/EEC, 1999/45/EC):

R-Phrase	Description
R-	-

2.2 Label elements

Labelling (67/548/EEC, 1999/45/EC):

R-Phrase	Description
R-	-

S-Phrase	Description
S-	-

2.3 Other hazards

No data are available.

3. Composition/information on ingredients

3.1 Substances

3.1.1 Chemical characterization (substance)

Polydimethylsiloxane

3.2 Mixtures

not applicable

4. First-aid measures

4.1 Description of first aid measures

General information:

In case of accident or if you feel unwell seek medical advice (show label or SDS where possible).

After inhalation: Provide fresh air.

After contact with the skin: Wipe off excess material with cloth or paper. Wash with plenty of water or water and soap. In the event of a visible skin change or other complaints, seek medical advice (show label or SDS where possible).

After contact with the eyes: Rinse immediately with plenty of water. Seek medical advice in case of continuous irritation.

After swallowing: Give several small portions of water to drink. Do not induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

Any relevant information can be found in other parts of this section.

4.3 Indication of any immediate medical attention and special treatment needed

No data are available.

5. Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media: water mist , extinguishing powder , alcohol-resistant foam , carbon dioxide , sand .

Extinguishing media which must not be used for safety reasons: water spray , water jet .

5.2 Special hazards arising from the substance or mixture

not applicable

5.3 Advice for firefighters

Special protective equipment for fire fighting: Use respiratory protection independent of recirculated air.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

If material is released indicate risk of slipping. Do not walk through spilled material.

6.2 Environmental precautions

Prevent material from entering surface waters, drains or sewers and soil. Contain any fluid that runs out using suitable material

(e.g. earth). Close leak if possible without risk.

6.3 Methods and material for containment and cleaning up

Take up mechanically and dispose of according to local/state/federal regulations. For small amounts: Absorb with a liquid binding material such as diatomaceous earth and dispose of according to local/state/federal regulations. Contain larger amounts and pump up into suitable containers. Clean any slippery coating that remains using a detergent / soap solution or another biodegradable cleaner. Apply sand or other inert granular material to improve traction.

6.4 Reference to other sections

Relevant information in other sections have to be considered. This applies in particular for information given on personal protective equipment (section 8) and on disposal (section 13).

7. Handling and storage

7.1 Precautions for safe handling

General information: No special protective measures required.

Precautions for safe handling: Spilled substance increases risk of slipping. Liquid silicone based

materials have lubricating properties that can substantially reduce or eliminate traction and may pose a slip hazard. Please use warning labels on consumer products where traction is essential for safety.

Precautions against fire and explosion: Observe the general rules for fire prevention.

7.2 Conditions for safe storage, including any incompatibilities

Conditions for storage rooms and vessels: none known

Advice for storage of incompatible materials: not applicable

Further information for storage: Keep container tightly closed. Store in a dry and cool place.

Maximum temperature allowed during storage and transportation: 50 °C

7.3 Specific end use(s)

No data are available.

8. Exposure controls/Personal protection

8.1 Control parameters

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8.2 Exposure controls

8.2.1 Exposure in the work place limited and controlled

General protection and hygiene measures: Observe standard industrial hygiene practices for the handling of chemical substances. Do not eat or drink when handling.

Personal protection equipment:

Respiratory protection: not required .

Hand protection: Recommendation: Protective gloves made of butyl rubber , nitrile rubber protective gloves .

Eye protection: Recommendation: protective goggles .

8.2.2 Exposure to the environment limited and controlled

Prevent material from entering surface waters and soil.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

General information:

Physical state / form.....: liquid

Colour: colourless

Odour: odourless

Important information about the protection of health, safety and the environment:

Property: Value:

Melting point / melting range: -50 - -35 °C

Boiling point / boiling range: not determined

Flash point.....: > 300 °C (ISO 2592)

Ignition temperature: 410 °C (EN 14522)

Lower explosion limit (LEL): not applicable

Upper explosion limit (UEL).....: not applicable

Vapour pressure.....: not applicable

Density: approx. 0,97 g/cm³ at 25 °C (DIN 51757)

Water solubility / miscibility.....: virtually insoluble at 20 °C

pH-Value: approx. 7

Viscosity (dynamic): 324 - 356 mPa.s at 25 °C (DIN 53019)

Viscosity (kinematic): approx. 350 mm²/s at 25 °C (DIN 53019)

9.2 Other information

Thermal decomposition.....: Decomposition begins at > 250 °C

10. Stability and reactivity

10.1 – 10.3 Reactivity; Chemical stability; Possibility of hazardous reactions

If stored and handled in accordance with standard industrial practices no hazardous reactions are known.

Relevant information can possibly be found in other parts of this section.

10.4 Conditions to avoid

none known

10.5 Incompatible materials

none known

10.6 Hazardous decomposition products

If stored and handled properly: none known . Measurements have shown the formation of small amounts of formaldehyde at temperatures above about 150 °C (302 °F) through Oxidation.

11. Toxicological information

11.1 Information on toxicological effects

11.1.1 Acute toxicity

Assessment:

Based on the available data acute toxic effects are not expected after single oral exposure.

Based on the available data acute toxic effects are not expected after single dermal exposure.

Product details:

Route of exposure	Result/Effect	Species/Test system	Source
oral	LD 50 : > 5000 mg/kg	rat	Conclusion by analogy
dermal	LD 50 : > 2008 mg/kg	rat	Conclusion by analogy

11.1.2 Skin corrosion/irritation

Assessment:

Based on the available data a clinically relevant skin irritation hazard is not expected.

Product details:

Result/Effect	Species/Test system	Source
not irritating	rabbit	Conclusion by analogy

11.1.3 Serious eye damage / eye irritation

Assessment:

Based on the available data a clinically relevant eye irritation hazard is not expected.

Product details:

Result/Effect	Species/Test system	Source
not irritating	rabbit	Conclusion by analogy

11.1.4 Respiratory or skin sensitization

Assessment:

Based on the available data a sensitization reaction is not expected from this product.

Product details:

Route of exposure	Result/Effect	Species/Test system	Source
dermal	not sensitizing	guinea-pig Magnusson-Kligman	Conclusion by analogy OECD 406

11.1.5 Germ cell mutagenicity

Assessment:

Based on known data a significant mutagenic potential may be excluded.

Product details:

Result/Effect	Species/Test system	Source
Negative	mutation assay (in vitro) bacterial cells	Conclusion by analogy OECD 471

11.1.6 Carcinogenicity

Assessment:

For this endpoint no toxicological test data is available for the whole product.

11.1.7 Reproductive toxicity

Assessment:

For this endpoint no toxicological test data is available for the whole product.

11.1.8 Specific target organ toxicity (single exposure)

Assessment:

For this endpoint no toxicological test data is available for the whole product.

11.1.9 Specific target organ toxicity (repeated exposure)

Assessment:

For this endpoint no toxicological test data is available for the whole product.

11.1.10 Aspiration hazard

Assessment:

For this endpoint no toxicological test data is available for the whole product.

11.1.11 Further toxicological information

Human patch test: Product displays good compatibility with the skin.

12. Ecological information

12.1 Toxicity

Assessment:

No expected damaging effects to aquatic organisms. According to current knowledge adverse effects on water purification plants are not expected.

Product details:

Result/Effect	Species/Test system	Source
0,0001 mg/l (measured) effect level>maximum achievable concentration	static (water-accommodated fraction) Daphnia magna (48 h)	literature (Polydimethylsiloxane)
IC 50 (growth rate): > 100000 mg/l (nominal)	Marine alga (skeleonema costatum) (72 h)	Literature (Polydimethylsiloxane)
NOEC (chronic): > 10000 mg/kg	feeding study rainbow trout (Oncorhynchus mykiss) (28 d)	literature (Polydimethylsiloxane)

12.2 Persistence and degradability

Assessment:

Biologically not degradable. Absorbed by floating particles. Separation by sedimentation. Polydimethylsiloxanes are degradable to a certain extent in abiotic processes.

12.3 Bioaccumulative potential

Assessment:

Polymer component: Bioaccumulation is not expected to occur.

12.4 Mobility in soil

Assessment:

Polymer component: Insoluble in water. Forms thin oil film on surface of water. Absorbed by floating particles. Separation by sedimentation.

12.5 Other adverse effects

none known

13. Disposal considerations

13.1 Waste treatment methods

13.1.1 Material

Recommendation:

Material that cannot be used or chemically reprocessed should be disposed of at an approved facility in accordance with any applicable governmental regulations.

13.1.2 Uncleaned packaging

Recommendation:

Completely discharge containers (no tear drops, no powder rest, scraped carefully). Containers may be recycled or re-used.

Observe local/state/federal regulations.

14. Transport information

14.1 – 14.4 UN number; UN proper shipping name; Transport hazard class(es); Packing group

Road ADR:

Valuation: Not regulated for transport

Railway RID:

Valuation: Not regulated for transport

Transport by sea IMDG-Code:

Valuation: Not regulated for transport

Air transport ICAO-TI/IATA-DGR:

Valuation: Not regulated for transport

14.5 Environmental hazards

Hazardous to the environment: no

14.6 Special precautions for user

Relevant information in other sections have to be considered.

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Bulk transport in tankers is not intended.

15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

National and local regulations must be observed.

For information on labelling please refer to section 2 of this document.

15.2 Other international regulations

Details of international registration status:

Listed on or in accordance with the following inventories:

EINECS - Europe

ECL - Korea

ENCS - Japan

AICS - Australia

IECSC - China

DSL - Canada

PICCS - Philippines

TSCA - USA

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.