

MATERIAL SAFETY DATA SHEET CE 1907/2006

Material Safety Data Sheet

1 Identification of the substance or preparation and the company

Product name: SILICONE GREASE FOR BOYSER HOSE PUMP

Additional data: USE: Pump lubrication

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 |
|-------------|---------------------------|
| SILICONA-01 | 100 gr. Silicone grease |
| SILICONA-05 | 500 gr. Silicone grease |
| SILICONA-1 | 1.000 gr. Silicone grease |
| SILICONA-5 | 5.000 gr. Silicone grease |

Emergency phone: (34) 93 844.77.78

2 Components Composition / Information

Chemical components: Product based on silicon fluid, thickened by a inorganic tickener and additives.

Hazardous components: None in normal use.

Chemical identification

Name and concentrations: Not applicable.

Hazardous impurities:

Chemical identification: Not applicable.

3 Hazards identification

Non hazardous product according to 1999/45/CE regulation.

Not classified as flammable.

MAIN HAZARDS

Negative effects on health: Under normal use silicon fluids and other components of the product are not considered as dangerous and toxic.

Negative effects on environment:

The experiments made on similar new products indicate that it might be considered as of low danger for water and earth life and to be intrinsically biodegradable with time. However, regulations forbid waste lubricants to be disposed of in an uncontrolled manner in the environment.

Physico-chemical hazards: No particular risk of inflammation or explosion.

Specific risks: None under normal use.

4 First aid measures

Inhalation: None under normal use.

Ingestion: Immediate special treatment is not generally required, but do not induce vomiting. Seek medical attention.

Skin contact: Do not use organic solvents.

After skin contact wash with soap and water.

In case of injury by a high-pressure spray, there is a risk of internal introduction.

Get hospital attention even if there is no apparent injury.

Eyes contact: Immediately flush eyes with water with lifting of the eyelids during 15 minutes minimum. Seek medical attention.

Information for the physician: Treat symptomatically.

5 Fire-Fighting means

Means of extinction: Dry powder, foam, carbon dioxide gas or carbonic snow.

Products of combustion: Incomplete combustion can yield CO, CO₂, various hydrocarbons, aldehydes.

Protection equipment: Self contained autonomous breathing equipment in case of FIRE in enclosed spaces.

6 Accidental release measures

Personal precautions: In accordance with the level of risk, wear gloves, safety glasses and/or chemical protective clothing.

Environment protection: Take all measures to avoid the pollution of sewers and waterways. Build dikes to prevent flowing.

Cleaning means: Pick up with inert absorbent or sawdust or sand.

Do not flush into sewer.

Disposal: Place it in a secure waste disposal container and eliminate by a licensed waste disposal company.

7 Handling and storage

HANDLING

Protection of employee:

Ensure adequate ventilation in case of vapour or mist risk.

Keep away from flammables.

Keep away from foodstuffs and drinks.

Fire and explosion prevention:

Contaminated materials present fire hazards by auto oxidation.

Eliminate in a secure waste disposal container.

General precautions:

To minimise the risk you must take into account the risk of streaming on hot surfaces or electric contacts.

Prolonged and repeated contact with the skin may cause irritation favoured by little skin injuries or friction of contaminated clothes.

Avoid streaming.

Take off all oil/grease soaked clothes.

After skin contact, wash with soap and water.

Do not use solvent or fuels.

Do not wipe hands with soaked cleaning towels.

Do not breathe vapours or mist.

Do not eat, drink or smoke during use.

Precautions of use:

Avoid contact with strong oxidizers.

Use only hydrocarbons resistant materials.

STORAGE

Technical disposition:

Not applicable.

Storage conditions:

Particular regulations, capacity limits and quantity must be in accordance with local and national regulations.

Recommended:

Store at ambient temperature away from water, moisture or ignition sources.

Store in closed containers.

Avoid spillage in water and on the ground.

Not recommended:

Outside in open air.

Incompatible materials:

Strong oxidizers.

Packaging materials:

Use only hydrocarbons resistant materials for containers, seals, pipes

Avoid the transfer to other packaging. On the contrary, put, if necessary, a label on the new one.

8 Exposure controls / Personal protection

CONTROL PARAMETERS: INDIVIDUAL EQUIPMENT.

Breathing protection :

Not applicable in normal use.

Hands protection:

It is recommended that oil resistant gloves be worn.

Eyes protection:

Normally not necessary.

In order to avoid splashes, use safety glasses.

Skin and body protection:

Depending on necessity use: mask, full-face glasses, resistant impermeable clothes and/or security footwear.

Individual hygiene:

Avoid skin contact.

Wash with soap and water after contact.

Do not use solvent or fuels.

In case of eyes contact, wash immediately with water occasionally lifting the eyelids, during a minimum of 15 minutes, the seek medical attention.

9 Physical and chemical proprieties

Physical state: Pasty solid.

Appearance: Buttery.

Colour: Light brown-yellowish.

Odour: Characteristic.

pH: N.A.

Temperature of physical change

-Dropping pint: > 250°C (ASTM D-566)

Flash point: Grease, not aplicable.

Auto ignition temperature: >250°C (ASTM E-659).

This value can be lower due to different situations (slow oxidation in strong divided media).

Explosion: Not applicable.

Vapour pressure: Negligible under normal conditions.

Density @ 20°C: 0.970 gr./cc.

Solubility in water: Not soluble.

Solubility in organic solvents: Soluble in many usual organic solvents.

n-octanol/water

-Partition coefficient: None.

Others data: None.

10 Stability and reactivity

Stability: Stable product in normal conditions of storage, handling and use.

Dangerous reactions: Not recommended conditions: heat, ignition points and flames.

Not recommended materials: strong oxidizers.

Hazardous decomposition components: Incomplete combustion and thermolyse can yield CO, CO₂, hydrocarbons, aldehydes and carbon dust.

11 Toxicological information

Considering the toxicological data of the components, the product might have the following characteristics according to the actual legislation:

ACUTE TOXICITY

Inhalation: No risk in normal use.

Skin contact: Non-toxic.

Ingestion: Non-toxic.

LOCAL EFFECTS

Inhalation: No risk in normal use.

Skining contact: Non-irritant.

Eyes contact: Non-irritant.

SENSITIZATION

Skining contact: Non-sensitising.

CRONIC TOXICITY

Inhalation: No risk in normal use.

Skin contact: Specific injury may develop following repeated or prolonged contacts.

SPECIFIC EFFECTS

Carcinogenic: Non-carcinogenic. This product is formulated with severely silicon fluids and other components considered as non-carcinogenic.

12 Ecological information

Molibity: Ground: Considering its physical state, the product is generally little mobile.

Water: Not soluble. The product floats on water surface.

Degradability: No experimental data on the final product.

However, the mineral oil part of the composition is biodegradable with time.

Some components might be non-biodegradable.

Eco-toxicity: The product is not considered as dangerous for ground flora.

It is considered as slightly harmful for water and marine species.

No data for the used product.

13 Disposal considerations

Used products

Relevant methods of elimination: In Spain, it is only permitted to remove the product by a

licensed waste disposal company or incineration in a licensed centre.

Used packaging

Relevant methods of elimination: Treatment by a licensed waste disposal company.

Local regulations: This paragraph describes the Local Legislation references concerning the regulations for incidental spillage and state laws concerning removal, transport and treatment of used products.

14 Transport information

INTERNATIONAL REGULATIONS

Road and rail transport: Not applicable.

Rivers: Not applicable.

Marine: Not applicable.

Air: Not applicable.

15 Regulatory information

EEC REGULATIONS

Common label or EC label: Symbols: None.

Risk sentences: None.

Safety sentences: None.

16 Other information

This material safety data sheet has been prepared according to 91/155/CE regulation and its pertinent modifications.

This MSDS is an addition and complementary document besides the technical data sheet. The information is based upon our knowledge about the product at the date of edition.

Since we cannot anticipate nor control the different conditions under which this information or our product may be used, we cannot guarantee that the recommendations will be adequate for all individuals and situations.

Each user should determine the suitability of the described product for his particular purpose and should comply with all concerned federal and/or state legislation and specific regulations.