

# MATERIAL SAFETY DATA SHEET



## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Commercial Name: BioSafe BOSS  
Manufacturer name: Binol BioSafe OY  
address: PL 101 FIN-21201 RAISIO, FINLAND  
phone: +358 2 443 2111

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

Substance or Composition: Composition  
Hazardous components: None  
Hazardous impurities: Not concerned

## 3. HAZARDS IDENTIFICATION

Health: Under intended use, the product is considered as non-toxic and safe.  
Environment: Experiments made on this and similar products indicate that the product can be considered as of low danger to the environment. However, regulations forbid the disposal of lubricants in the environment without special permit.  
Physical-chemical hazards: No particular risk of ignition or explosion.  
Specific risks: None  
The product is considered not hazardous according to the EU Dangerous Substances/Preparations Directives classification scheme (67/548/EEG, last amended by EU Directive 1999/45/EG).

## 4. FIRST AID MEASURES

Inhalation: Not concerned.  
Skin contact: Wash with detergent and water.  
Eye splashes: Flush with generous amounts of temperate water for a minimum of 15 minutes. Seek medical help if the problems remain.  
Ingestion: Drink water or milk. Do not induce vomiting.

## 5. FIRE-FIGHTING MEASURES

Extinguishing media recommended: CO<sub>2</sub>, dry powder, foam.  
not recommended: Water in a jet.

## 6. ACCIDENTAL RELEASE MEASURES

Personal precautions: None necessary.  
Environment protection: Avoid pollution of sewers and water.  
Cleaning means: Removal with inert absorbent or sand.

## 7. HANDLING AND STORAGE

**Handling**  
Personal protection: Avoid prolonged and repeated contact with skin. Remove soaked clothes.

### Storage

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Recommended conditions: Storage temperature -10 to +40 °C. Store in closed container, preferably as delivered.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Technical measures: Exposure should be minimised preferably with technical measures rather than personal protective equipment.

### Personal protective equipment

Respiratory protection: Not necessary in normal use.  
Hand protection: Impermeable gloves recommended (e.g. PVC or rubber gloves).  
Eye protection: Safety goggles recommended.  
Others: Not necessary.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Oil  
Viscosity (40°C): 11 mm<sup>2</sup>/s (cSt)  
Viscosity (20°C): 23 mm<sup>2</sup>/s (cSt)  
Colour: Yellow  
Odour: Vegetable oil related  
pH value: Not applicable  
Pourability: -15 °C  
Auto ignition temperature: Not concerned  
Explosion range: Not concerned  
Vapour pressure: Negligible under normal conditions  
Density (20°C): 890 kg/m<sup>3</sup>  
Solubility in water: Insoluble  
Solubility in organic solvents: Soluble

## 10. STABILITY AND REACTIVITY

Stability: Stable product under ordinary conditions.  
Hazardous reactions: None known.  
Conditions to be avoided: Elevated temperatures (>100°C), acids and strong oxidizing agents.  
Hazardous decomposition products: None known.

## 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity (OECD 401): LD<sub>50</sub> rat >2000 mg/kg, i.e. not toxic  
Skin irritation (OECD 404): Not irritating (rabbit)  
Mutagenicity (Ames test): Not mutagenic

## 12. ECOLOGICAL INFORMATION

Fish toxicity (OECD 203, 48h): LC<sub>50</sub>> 100 mg/l  
Biodegradability: The product is readily biodegradable according to CEC L-33-A-93 (>80 % in 21 days).

## 13. DISPOSAL CONSIDERATIONS

Used product: As per existing regulations.  
Used packaging: As per existing regulations.

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## 14. TRANSPORT INFORMATION

The product is not classified as dangerous goods.

## 15. REGULATORY INFORMATION

Symbols:	None
Risk phrases:	None
Safety phrases:	None

No labelling required according to EU Regulations.

## 16. OTHER INFORMATION

Contact: Karl-Erik Lindén  
Binol BioSafe OY