

MATERIAL SAFETY DATA SHEET



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

Commercial Name: BioSafe SCO 68
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 based on vegetable oils
Hazardous components: None
Hazardous impurities: Not concerned

3. HAZARDS IDENTIFICATION

Health: Under ordinary typical 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 known.

The product is considered not hazardous according to the EU Dangerous Substances/Preparations Directives classification scheme (67/548/EEG, last amended 1999/45/EG).

4. FIRST AID MEASURES

Inhalation: Not concerned.
Skin contact: Wash with detergent and water.
Eye splashes: Flush with water generous amounts of temperate water for at least 15 minutes. Seeek medical advice if irritation remains.
Ingestion: Drink water or milk. Do not induce vomiting.

5. FIRE-FIGHTING MEASURES

Extinguishing media recommended: CO₂, 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.

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7. HANDLING AND STORAGE

Handling

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

Storage

Recommended conditions: Storage temperature 0 to +40°C. Extended storage periods at temperatures below -20 and above +40 °C should be avoided. Store in closed container, preferably as delivered. Storage stability is at least 12 months.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Technical measures: None necessary.

Personal protective equipment

Respiratory protection: Not necessary in normal use.

Hand protection: Impermeable gloves recommended.

Eye protection: Safety goggles recommended.

Others: Not necessary.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Oil
Viscosity (40°C): 68 mm²/s (cSt)
Colour: Yellow
Odour: Vegetable oil related
pH value: Not applicable
Flash point (ISO 2592): > 200°C
Pour point: -36°C
Auto ignition temperature: Not concerned
Vapour pressure: Negligible under normal conditions
Density (20°C): 915 kg/m³
Solubility in water: Insoluble

10. STABILITY AND REACTIVITY

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

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity (OECD 401): LD₅₀ rat >2000 mg/kg
Skin irritation (OECD 404): Not irritating
Eye irritation (OECD 405): Not irritating
Mutagenicity (Ames test): Not mutagenic

The results are expected values based on tests conducted on similar products and conclusions from test results of the ingredients of the product.

12. ECOLOGICAL INFORMATION

Algae toxicity (OECD 201): $EC_{50} > 1\ 000\ \text{mg/l}$
Fish toxicity (OECD 203, 48h): $LC_{50} > 100\ \text{mg/l}$

The results are expected values based on tests conducted on similar products and conclusions from test results of the ingredients of the product.

Biodegradability: The product is readily biodegradable (>90%) according to OECD 301F and not bioaccumulating according to OECD 305D.

13. DISPOSAL CONSIDERATIONS

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

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

The product is chainsaw oil based on vegetable oil.

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