

MATERIAL SAFETY DATA SHEET



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

Commercial Name: BioSafe HO 46 SE
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 (preparation) based on vegetable oil-based esters
Hazardous components: None

3. HAZARDS IDENTIFICATION

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 generous amounts of temperate water for a minimum of 10 minutes. Seek medical help if the problems remain.
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.

7. HANDLING AND STORAGE

Handling
Personal protection: Avoid prolonged and repeated contact with skin. Remove soaked clothes.
Storage
Recommended conditions: Store in closed container, preferably as delivered.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Technical measures: None necessary.
Personal protective equipment
Respiratory protection: Not necessary in normal use.
Hand protection: Impermeable gloves recommended (nitrile rubber).
Eye protection: Safety goggles recommended.
Others: Not necessary.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Oil
Viscosity (40°C):	46 mm ² /s (cSt)
Colour:	Yellow
Odour:	Faint
Flash point (ASTM D 92):	>200°C
Pour point:	-42°C
Vapour pressure:	Negligible under normal conditions
Density (20°C):	920 kg/m ³
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).
Hazardous decomposition products:	In case of thermal degradation hazardous gases may be formed (for example CO, CO ₂).

11. TOXICOLOGICAL INFORMATION

Skin irritation (OECD 404):	Not irritating
Eye irritation (OECD 405):	Not irritating
Mutagenicity (OECD 471, Ames test):	Not mutagenic

12. ECOLOGICAL INFORMATION

The product is readily biodegradable according to OECD 301 F (>80 %) and not accumulating according to OECD 305 D.

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 used as a pressure and hydraulic medium.
Contact: Karl-Erik Lindén
Binol BioSafe OY