

MATERIAL SAFETY DATA SHEET



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

Identification of the substance or preparation: Binol Hyd 46
Use of the substance/preparation: Hydraulic Oil
Company/undertaking identification: Binol AB
SE-374 82 Karlshamn, Sweden
Phone. +46 454 828 00
jenny.porsche@aak.com
Emergency telephone: See above (at office hours)

2. 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).

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance or Composition: Composition (preparation) based on vegetable oils

Hazardous components:

Components	CAS No.	EG No.	Cont. %	Classification
None				

Components not affecting classification:

Components	CAS No.	EG No.	Cont. %	Classification
None				

4. FIRST AID MEASURES

Inhalation: Not concerned
Skin contact: Wash the skin with detergent and water.
Eye splashes: Flush with temperate water for at least 10 minutes.
Ingestion: Drink water or milk. Do not induce vomiting.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: CO₂, foam, dry powder.
Extinguishing media which shall not be used for safety reasons: Water in a jet.
Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases: Overheated product can give combustible vapours and irritating smoke. At incomplete combustion CO (carbon monoxide) can be produced.
Special protective equipment for fire-fighters: Normal equipment for chemical fires.

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6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Avoid skin contact. (See section 8.)
Environment protection: Avoid pollution of sewers and water.
Methods for cleaning up: Absorb greater discharge with inert absorbent or sand. Transfer the product in a suitable packing for deposit. (See section 13.) Small amounts can be flushed away with water.

7. HANDLING AND STORAGE

Handling: Avoid prolonged and repeated contact with skin. Remove soaked clothes.
Storage: Storage temperature -20 to +40 °C. Store in closed container, preferably as delivered.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure controls: Maintain good personal care.
Respiratory protection: Not necessary in ventilated areas. Secure good ventilation if formation of steam appears.
Hand protection: Impermeable gloves (nitrile or Viton) is recommended when soap and water is not available.
Eye protection: Safety goggles are recommended.
Exposure limit values: No limit values are known.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Oil
Viscosity (40°C): 42 mm²/s (cSt)
Colour: Green
Odour: Vegetable oil related
Pour Point: App. -39 °C
Flash Point: App. 200 °C
Vapour Pressure: Negligible under normal conditions
Density (20°C): 920 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), acidic and strongly oxidizing components.
Hazardous decomposition products: None known.

11. TOXICOLOGICAL INFORMATION

General: The product has low acute toxicity.
Acute oral toxicity (OECD 401): LD₅₀ rat >2 000 mg/kg, not toxic
Acute dermal toxicity (OECD 402): LD₅₀ rat >2 000 mg/kg, not toxic
Skin irritation (OECD 404): Not irritating
Eye irritation (OECD 405): Not irritating
Mutagenicity (Ames test): Not mutagenic

The results are based on tests made of the ingredients. The product is not tested on animals.

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12. ECOLOGICAL INFORMATION

Ecotoxicity:	Algae toxicity (OECD 201):	EC ₅₀ > 1 000 mg/l
	Fish toxicity (OECD 203, 48 tim):	LC ₅₀ > 100 mg/l
Mobility:	Insoluble in water	
Persistence and degradability:	The product is readily biodegradable according to OECD 301 B, Modified Sturm-test (>60 % in 28 days)	
Bioaccumulative potential:	Contains no bioaccumulative components	

The results are based on tests made of the ingredients. The product is not tested on animals.

13. DISPOSAL CONSIDERATIONS

Used product:	As per existing national regulations
Proposal for EWC-no:	13 01 12 (Readily biodegradable hydraulic oils)
Used packaging:	As per existing national 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

Sources of key data used to compile the data sheet:	Information data of the ingredients
Technical information:	Contact Binol

List of relevant symbols and R phrases:

Symbols/R-phrases	Text
None	

Revision:

Date	Revised section
08-12-08	2, 3
09-01-01	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16