

# MATERIAL SAFETY DATA SHEET



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

Identification of the substance or preparation: Binol Hyd 46E  
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](mailto: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 biodegradable esters

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: CO<sub>2</sub>, 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.

# MATERIAL SAFETY DATA SHEET



## 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):** 46 mm<sup>2</sup>/s (cSt)  
**Colour:** Yellow  
**Odour:** Neutral  
**Pour Point:** App. -39 °C  
**Flash Point:** > 200 °C  
**Vapour Pressure:** Negligible under normal conditions  
**Density (20°C):** 920 kg/m<sup>3</sup>  
**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):** LD<sub>50</sub> rat >2 000 mg/kg, not toxic  
**Acute dermal toxicity (OECD 402):** LD<sub>50</sub> 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.

# MATERIAL SAFETY DATA SHEET



## 12. ECOLOGICAL INFORMATION

Ecotoxicity: Algae toxicity (OECD 201): EC<sub>50</sub> >1 000 mg/l  
Fish toxicity (OECD 203, 48 tim): LC<sub>50</sub> >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
06-09-01	New
09-01-01	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16