

MATERIAL SAFETY DATA SHEET



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

Identification of the substance or preparation: Binol Band E40
Use of the substance/preparation: Lubricating/Cleaning/Cooling Fluid
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



Xi Irritant
R 36 Irritating to eyes
R 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Health: The concentrated product is irritating to the skin and eye. Under ordinary typical use, the product is considered as non-toxic and safe.

Environment : The product contains an anionic emulsifier which is considered toxic to aquatic organisms.

The product is classified 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
Vegetable oil/fatty alcohol ethoxylates	68439-50-9 + 61791-12-6	500-213-3 + 500-151-7	5-10	XiN, R41, 50
Anionic emulsifier	110-25-8	203-749-3	<2	XiN, R36/38, 50/53

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 15 minutes. Seek medical help if the problems remain
Ingestion: Drink water or milk. Do not induce vomiting.

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5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:	CO ₂ , 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.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:	None necessary in ventilated environments. (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 wiped up with paper towels.

7. HANDLING AND STORAGE

Handling:	Avoid prolonged and repeated contact with skin. Remove soaked clothes.
Storage:	Storage temperature 5 to 40 °C. Store in closed container, preferably as delivered.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure controls:	Maintain good personal care. Exposure should be minimised preferably with technical measures rather than personal protective equipment.
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:	Emulsifiable low viscous oil
Viscosity (20°C):	90 mm ² /s (cSt)
Viscosity (40°C):	40 mm ² /s (cSt)
Colour:	Yellow
Odour:	Vegetable oil related odour
pH - concentrate	Not applicable
pH - dilution (5%)	5,2
Pour Point:	App. -9 °C
Flash Point:	> 200 °C
Vapour Pressure:	Negligible under normal conditions
Density (20°C):	App. 925 kg/m ³
Solubility in water:	Emulsifiable
Solubility in organic solvents:	Poor

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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 ₅₀ rat >2 000 mg/kg, not toxic
Acute dermal toxicity (OECD 402):	LD ₅₀ 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 result is a concluded value based on information on the ingredients of the product. The formulated product has not been tested on animals.

12. ECOLOGICAL INFORMATION

Ecotoxicity:	The product contains smaller amounts of component that has been classified as toxic to aquatic organisms.
Mobility:	Soluble in water
Persistence and degradability:	The product is readily biodegradable according to OECD 301, (>60 % in 28 days)
Bioaccumulative potential:	Contains no bioaccumulative components

The result is a concluded value based on information on the ingredients of the product. The formulated product has not been tested on animals.

13. DISPOSAL CONSIDERATIONS

Used product:	As per existing national regulations
Proposal for EWC-no:	13 02 07 (Readily biodegradable motor,- transmission- and lubricating oils)
Used packaging:	As per existing national regulations

14. TRANSPORT INFORMATION

The product is not classified as dangerous goods.

15. REGULATORY INFORMATION

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Symbols: Xi Irritant
Risk phrases: R36 Irritating to eyes
R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Safety phrases: S25 Avoid contact with eyes
S61 Avoid release to the environment. Refer to special instructions/material safety data sheet.

The product is classified according to current EU Regulations (last updated by EU Directive 1999/45/EG).

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
Xi	Irritant
N	Dangerous for the environment
R 36	Irritating to eyes
R 36/38	Irritating to eyes and skin
R 41	Risk of serious damage to eyes
R 50	Very toxic to aquatic organisms
R 50/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R 52	Harmful to aquatic organisms

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