

# MATERIAL SAFETY DATA SHEET



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

Commercial Name: Binol Cool 50 HD  
Manufacturer name: Binol AB  
address: SE-374 82 KARLSHAMN, SWEDEN  
phone no: +46 454 828 00  
fax no: +46 454 75 20 70

## 2. HAZARDS IDENTIFICATION

**Health:** Due to the relatively high pH value, the product is irritating to the skin and eye.

**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

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Substance or Composition:** Composition (preparation) containing vegetable oils

<u>Hazardous components</u>	<u>CAS #</u>	<u>Wt %</u>	<u>Classification</u>
Boric acid/amine condensation products	unknown*	5-15%	Xi, R22, R36
Oxazolidine	66204-44-2	2-4 %	C, R21/22, R34, R52
Phenoxyethanol	122-99-6	<2%	Xn, Xi, R22, 36
Sodiumsulphonate	68608-26-4	<2%	Xi, R41

\*CAS # not given by the producer

## 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 15 minutes. Seek medical help if the problems remain.

**Ingestion:** Drink water or milk. Do not induce vomiting.

## 5. FIRE-FIGHTING MEASURES

**Extinguishing media**

recommended: CO<sub>2</sub>, dry powder, foam.

not recommended: Water in a jet.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions:** None necessary in ventilated environments.

**Environment protection:** Avoid pollution of sewers and water.

**Cleaning means:** For easy removal, use inert absorbent or sand.

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## 7. HANDLING AND STORAGE

### Handling

**General:** Avoid exposure to temperatures  $< +5$  and  $> +40^{\circ}\text{C}$  for emulsion stability reasons.

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

### Storage

**Recommended conditions:** Storage temperature  $+10$  to  $+40^{\circ}\text{C}$ . Store in closed container, preferably as delivered, and separated from strong acids.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Technical measures:** Exposure should be minimised preferably with technical measures rather than personal protective equipment.

### Personal protective equipment

**Respiratory protection:** Not necessary in normal use.

**Hand protection:** Impermeable gloves recommended (e.g. PVC or rubber gloves).

**Eye protection:** Safety goggles recommended.

**Others:** Not necessary.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical state:** Transparent micro emulsion fluid

**Viscosity (20°C):** Approx. 1500 mm<sup>2</sup>/s (cSt)

**Viscosity (40°C):** Approx. 360 mm<sup>2</sup>/s (cSt)

**Colour:** Yellow (to brown)

**Odour:** Faint amine-related odour

**pH value**            **-concentrate:** 9.6

**-dilution (5 %):** 8.8

**Boiling point:** Approx. 100 °C

**Melting point:** Approx. 0 °C

**Flash point:** Not concerned

**Vapour pressure:** Negligible under normal conditions

**Density (20 °C):** 1 040 kg/m<sup>3</sup>

**Solubility in water:** Soluble

**Solubility in organic solvents:** Poor

## 10. STABILITY AND REACTIVITY

**Stability:** Stable product under normal conditions.

**Hazardous reactions:** The product contains a biocide which is a formaldehyde condensation product. If the product accidentally is blended with an acid, followed by a significant pH drop of the formulation, the biocide can be decomposed. As a result, formaldehyde can be released in amounts that may cause sensitization. Therefore, always store the product well separated from acidic chemicals. If suspicions arise concerning the product having come into contact with strong acids, use supplementary respiratory personal protective equipment.

**Conditions to be avoided:** Elevated temperatures ( $>100^{\circ}\text{C}$ ), acids and strong oxidizing agents.

**Hazardous decomposition products:** See above. Apart from above noted reaction no other hazardous decomposition products are known.

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## 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity (OECD 401): LD<sub>50</sub> rat >2000 mg/kg

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

No tests have been performed on the product. The product does not contain any environmentally hazardous classified components according to the EU Dangerous Substances/Preparations Directives (67/548/EEG, last amended 1999/45/EG).

## 13. DISPOSAL CONSIDERATIONS

Used product: As per existing national regulations.

Used packaging: As per existing national regulations.

## 14. TRANSPORT INFORMATION

The product is not classified as dangerous goods.

## 15. REGULATORY INFORMATION

Symbols: Xi

Risk phrases: R 36 - Irritating to eyes

Safety phrases: -

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

## 16. OTHER INFORMATION

The product is a vegetable oil-containing general purpose metalworking fluid. The product should be mixed with water, typically to a 4-10 % dilution, for metalworking applications.