

MATERIAL SAFETY DATA SHEET



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

Identification of the substance or preparation: Binol Cool 10
Use of the substance/preparation: Metal Working Fluid, concentrate
Company/undertaking identification: Binol AB
SE-374 82 Karlshamn, Sweden
Phone. +46 454 828 00
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Emergency telephone: see above (at office hours)

2. HAZARDS IDENTIFICATION



Xi Irritant
R 36 Irritating to eyes
R 38 Irritating to skin

Health:

Due to the relatively high pH value, the concentrated product is irritating to the skin and eye.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components:

Components	CAS No.	EG No.	Cont. %	Classification
Alkanolamine fattyacid ester	84145-60-8 82801-62-5	282-287-4 280-045-2	5-10	Xi, R36/38
Monoisopropanolamine	78-96-6	201-162-7	<5	C, R34
Oxazolidine	66204-44-2	266-235-8	2-5	C, R21/22, 34, 52

Components not affecting classification:

Components	CAS No.	EG No.	Cont. %	Classification
Sodium pyrithione	3811-73-2	223-296-5	<2	XnN, R20/21/22, 36/38, 50

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.

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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:	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 +5 to +40 °C. Store in closed container, preferably as delivered and separated from strong acids.

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 normal use.
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:	Transparent/opaque low viscous fluid
Viscosity (20°C):	Appr. 6,5 mm ² /s (cSt)
Viscosity (40°C):	Appr. 3,5 mm ² /s (cSt)
Colour:	Yellowish
Odour:	Faint amine-related odour
pH value	-concentrate: 10.3
	-dilution (3 %): 9.5
Boiling point:	100 °C
Melting point:	approx. 0 °C
Vapour pressure:	Negligible under normal conditions
Density (20 °C):	1 080 kg/m ³
Solubility in water:	Completely soluble

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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 sensibilisation. 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°C), acids and strong oxidizing agents.

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

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity (OECD 401): LD₅₀ 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

Ecotoxicity: Non toxic to aquatic organisms
Mobility: Emulsifiable in water
Persistence and degradability: The product is estimated to be readily biodegradable.
Bioaccumulative potential: Contains no bioaccumulative components

No tests have been performed on the product.

13. DISPOSAL CONSIDERATIONS

Used product: As per existing national regulations
EWC-waste disposal no: 12 01 09
Used packaging: As per existing national regulations

14. TRANSPORT INFORMATION

The product is not classified as dangerous goods.

15. REGULATORY INFORMATION

Symbols:	Xi	Irritant
Risk phrases:	R36	Irritating to eyes
	R38	Irritation to skin
Safety phrases:	S24/25	Avoid contact with skin and eyes
	S37/39	Wear suitable gloves and eye/face protection

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

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16. OTHER INFORMATION

Sources of key data used to compile the data sheet:

Technical information:

Information data of the ingredients

Contact Binol

List of relevant symbols and R phrases:

Symbols/R-phrases	Text
Xi	Irritant
Xn	Harmful
N	Dangerous for the environment
C	Corrosive
R 20/21/22	Harmful by inhalation, in contact with skin and if swallowed
R 21/22	Harmful in contact with skin and if swallowed
R 34	Causes burns
R 38	Irritating to skin
R 36/38	Irritating to eyes and skin
R 50	Very toxic to aquatic organisms
R 52	Harmful to aquatic organisms

Revision:

Date	Revised section
09-10-13	New