

MATERIAL SAFETY DATA SHEET



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

Commercial Name: Binol Cool 311
Manufacturer name: AarhusKarlshamn Sweden AB
address: SE-374 82 KARLSHAMN, SWEDEN
phone no: +46 454 828 00
fax no: +46 454 75 20 76

2. COMPOSITION/INFORMATION ON INGREDIENTS

Substance or Composition: Composition (preparation) containing vegetable oils

<u>Hazardous components:</u>	<u>Wt %:</u>	<u>Classification:</u>
Boric acid/amine condensation products, CAS no. 68954-07-4	10-30 %	Xi, R22,38,41,48/22
Sodium pyrithione	<1%	XnN, R20/21/22, 36/38, 50

<u>Components not affecting classification:</u>	<u>Wt % :</u>	<u>Classification:</u>
Oxazolidin	2-4	C, R21/22, 34, 52

3. HAZARDS IDENTIFICATION

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

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

Recommended extinguishing media: CO₂, dry powder, foam.
Not recommended extinguishing media: 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. Storage stability is at least 12 months.

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/opaque low viscous fluid

Viscosity (40°C): $2-20 \text{ mm}^2/\text{s}$ (cSt)

Colour: Yellowish

Odour: Faint amine-related odour

pH value **-concentrate:** 10.1

-dilution (3 %): 9.6

Melting point: Approx. 0°C

Flash point: Not concerned (water containing)

Vapour pressure: Negligible under normal conditions

Density (20°C): $1\,000 \text{ kg}/\text{m}^3$

Solubility in water: Completely 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 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 ($>100^{\circ}\text{C}$), 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): 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

No tests have been performed on the product.

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 38 - Irritating to skin.

R 41 - Risk of serious damage to eyes

R48/22 - Harmful: danger of serious damage to health by prolonged exposure if swallowed.

Safety phrases:

S 24 - Avoid contact with skin.

S 26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 37/39 - Wear suitable gloves and eye/face protection.

S 46 - If swallowed, seek medical advice immediately and Show this container or label.

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

16. OTHER INFORMATION

The product is a grinding fluid and should be used in a 3-6 % dilution as a coolant and lubricating fluid in metalworking applications.