

**Safety Data Sheet**
according to 1907/2006/EC, Article 31

Printing date 04.12.2009

Revision: 04.12.2009

1 Identification of the substance/preparation and of the company/undertaking

- **Trade name:** **AddiCool**
- **Article number:** 41.301.00
- **Application of the substance / the preparation:** Preparation for industrial application
- **Manufacturer/Supplier:**
Supplier:
Bühler GmbH
In der Steele 2
40599 Düsseldorf
E-Mail: info@buehler-met.de
Internet: www.buehler-met.de
- **Further information obtainable from:**
Bühler GmbH
Phone +49 (0) 211/974 10-0
Fax +49 (0) 211/974 10-79
- **Information in case of emergency:**
Giftinformationszentrum
Universitätsklinikum Mainz
Emergency number: +49(0)6131/19240 (24 h)

2 Hazards identification

- **Hazard description:**



Xn Harmful

- **Information concerning particular hazards for human and environment:**

The standard application is mixed with water in process-dependant concentrations of approx. 0.01 - 3 %.
The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

Heightened danger of slipping when the product is spilled on the floor.

R 20/22 Harmful by inhalation and if swallowed.

R 36 Irritating to eyes.

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

- **After inhalation:**

Concentrate: not applicable

Water-mixed condition: Under unfavourable conditions, the use of water-mixed cooling lubricants and their associated additives can potentially generate aerosols and fumes. Long-term and repeated exposure can result in hypersensitivity and respiratory irritation. The exposure can be reduced through the application of suitable technical measures. For further information, please refer to the bibliographical references in Chapter 16.

- **After skin contact:**

Concentrate: The concentrate causes the loss of natural oils and maceration of the skin.

Water-mixed condition: Prolonged and frequent skin contact results in the loss of natural oils and drying of the skin.

Non-observance of proper skin protection, cleansing and care can result in skin irritations and contact dermatitis. For further information, please refer to the bibliographical references in Chapter 16.

- **After eye contact:**

Concentrate: The product acts as a short-term irritant to the eyes. Rinse eyes immediately after any contact, see also Chapter 4.

Water-mixed condition: Splashes of cooling lubricant can cause mild short-term irritation to the eyes. These irritations can be further increased by any solid particles (abraded materials/chips). Rinse eyes immediately after any contact, see also Chapter 4.

- **After swallowing:**

Concentrate: Can cause nausea and vomiting. Small quantities do not cause lasting damage.

Water-mixed condition: Can cause nausea and vomiting. Small quantities do not cause lasting damage.

- **Classification system:**

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

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3 Composition/information on ingredients

- **Description:** Mixture of substances listed below with nonhazardous additions.

- **Dangerous components:**

CAS: 95-14-7	benzotriazole	☒ Xn, ☒ Xi; R 20/22-36-52/53	20-40%
EINECS: 202-394-1			

- **Additional information:** For the wording of the listed risk phrases refer to section 16.

4 First aid measures

- **General information:**

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

- **After inhalation:**

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

In case of unconsciousness place patient stably in side position for transportation.

Concentrate: not applicable

Water-mixed condition: In case of respiratory irritation, supply fresh air; if problems persist, seek medical advice.

- **After skin contact:**

Concentrate: Wash with warm water and soap, then apply skin care cream.

Water-mixed condition: Wash with warm water and soap, then apply skin care cream. For further information, please refer to the bibliographical references in Chapter 16.

- **After eye contact:**

Concentrate: Rinse open eyes for several minutes under running water. If problems persist, seek medical advice.

Wear safety goggles when handling concentrate.

Water-mixed condition: Rinse open eyes under running water. If problems persist, seek medical advice and check eyes for foreign objects (abraded material/chips).

- **After swallowing:**

Call for a doctor immediately.

For concentrate and water-mixed condition: Do not induce vomiting; if problems persist, seek medical advice.

5 Fire-fighting measures

- **Suitable extinguishing agents:**

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- **Special hazards caused by the substance, its products of combustion or resulting gases:**

Formation of toxic gases is possible during heating or in case of fire.

- **Protective equipment:** Mouth respiratory protective device.

- **Additional information** Collect contaminated fire fighting water separately. It must not enter the sewage system.

6 Accidental release measures

- **Person-related safety precautions:** Particular danger of slipping on leaked/spilled product.

- **Measures for environmental protection:**

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

- **Measures for cleaning/collecting:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

- **Additional information:** See Section 13 for disposal information.

7 Handling and storage

- **Handling:**

- **Information for safe handling:**

Ensure good ventilation/exhaustion at the workplace.

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Prevent formation of aerosols.



Concentrate: Wear safety goggles when handling concentrate. Change all contaminated items of clothing.
Water-mixed condition: No special measures are required. Change all contaminated items of clothing.

- **Information about fire - and explosion protection:** No special measures required.

- **Storage:**

- **Requirements to be met by storerooms and receptacles:**

Unsuitable material for receptacles and pipes: Copper, Copper alloy and Zinc.

- **Information about storage in one common storage facility:** Not required.

- **Further information about storage conditions:**

Keep container tightly sealed.

Storage temperature between 10 °C to 30 °C (= 50 °F to 86 °F).

In closed original container and at storage temperature of 30 °C (86 °F) maximum product keeps stable for at least 12 months.

- **Storage class:** 10

8 Exposure controls/personal protection

- **Additional information about design of technical facilities:**

Under unfavourable conditions, the use of water-mixed cooling lubricants can potentially generate aerosols and fumes. Long-term and repeated exposure can result in hypersensitivity and respiratory irritation. The exposure can be reduced through the application of suitable technical measures. For further information, please refer to the bibliographical references in Chapter 16.

- **Ingredients with limit values that require monitoring at the workplace:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- **Additional information:** The lists valid during the making were used as basis.

- **Personal protective equipment:**

- **General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

Avoid close or long term contact with the skin.

Avoid contact with the eyes and skin.

Do not eat, drink, smoke or sniff while working.

Be sure to clean skin thoroughly after work and before breaks.

Do not carry product impregnated cleaning cloths in trouser pockets.

- **Respiratory protection:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

- **Protection of hands:**

Concentrate: The wearing of protective gloves is recommended when handling the concentrate. After short-term contact without gloves, wash affected areas thoroughly with soap and water.

Water-mixed condition: Hand protection is generally not required as long as protective ointments, cleansing and skin care creams are used. The wearing of protective gloves is recommended if compressed air is used to blow off the cooling lubricant, as the latter may contain solid particles.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves:**



Recommendation: 740 Dermatril (KCL, Germany) with a layer thickness of at least 0,1 mm

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The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

- Penetration time of glove material:

The breakthrough-time for these gloves is > 480 min (performance index: class 6)

- Eye protection:

Concentrate: Wear safety goggles.

Water-mixed condition: The wearing of safety goggles is recommended if compressed air is used to blow off the cooling lubricant, as the latter may contain solid particles.

9 Physical and chemical properties**- General Information**

Form:	Fluid
Colour:	Yellow-brown
Odour:	Characteristic

- **Flash point:** Not applicable.
- **Self-igniting:** Product is not selfigniting.
- **Danger of explosion:** Product does not present an explosion hazard.
- **Density at 20°C:** 1,14 g/cm³ (DIN 51757)
- **Solubility in / Miscibility with water:** Fully miscible.
- **pH-value at 20°C:** 9 (DIN 51369)
- **Viscosity:**
 - Kinematic at 40°C:** 10 mm²/s (DIN 53018)

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** Avoid heating of concentrate > 100 °C (> 212 °F).
- **Dangerous reactions:** Reacts with strong acids and oxidizing agents.
- **Dangerous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** Irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Harmful
Irritant

12 Ecological information

- **Information about elimination (persistence and degradability):** biodegradable

***13 Disposal considerations**

- **Product:**
- **Recommendation**
Must not be disposed together with household garbage. Do not allow product to reach sewage system.

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- European waste catalogue

Wastes marked with an asterisk are considered to be hazardous waste pursuant to Directive 91/689/EEC on hazardous waste.

16 05 08 *: discarded organic chemicals consisting of or containing dangerous substances

- Uncleaned packaging:**- Recommendation:**

Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.

14 Transport information**- Land transport ADR/RID (cross-border)**

- ADR/RID class: -

- Maritime transport IMDG:

- IMDG Class: -

- Marine pollutant: No

- Air transport ICAO-TI and IATA-DGR:

- ICAO/IATA Class: -

- Transport/Additional information: Not dangerous according to the above specifications.

15 Regulatory information**- Labelling according to EU guidelines:**

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

- Code letter and hazard designation of product:

Xn Harmful

- Risk phrases:

20/22 Harmful by inhalation and if swallowed.

36 Irritating to eyes.

52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

- Safety phrases:

9 Keep container in a well-ventilated place.

23 Do not breathe fumes/aerosol.

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

61 Avoid release to the environment. Refer to special instructions/safety data sheets.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- Relevant R-phrases

20/22 Harmful by inhalation and if swallowed.

36 Irritating to eyes.

52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

- Training hints

Further information on the safe application of metal working fluids are to be found in:

Metal working fluids - health and safety in the workplace (<http://www.hse.gov.uk/metalworking/index.htm>)

- Department issuing MSDS: Bühler GmbH, Düsseldorf

- * Data compared to the previous version altered.