

1 Identification of the substance / preparation and of the company

Use:	CoolMet2 Cutting fluid
Identified use:	none
Method of operation:	See product information.
Company:	Buehler GmbH In der Steele 2 D-40599 Düsseldorf / GERMANY Phone: 0800 707 6273 Fax: 0800 707 6274 Homepage: www.buehler-met.de/en/ E-mail: sales@buehler.co.uk
Emergency phone:	0800 707 6273 (Only valid if dialled within the UK) +49 (0) 211 974100
Responsible:	Schroeder@chemiebuero.de

2 Hazards identification

Physico-chemical hazards:	See chapter 10.
Other hazards:	none
Hazard symbols:	 Irritant
R-phrases:	R 41: Risk of serious damage to eyes. R 43: May cause sensitisation by skin contact.

3 Composition / Information on ingredients

Range [%]	Substance
1 - < 20	1,1'-Iminodipropan-2-ol CAS: 110-97-4, EINECS/ELINCS: 203-820-9 EU-INDEX: 603-083-00-7 ECB-Nr.: GHS/CLP: Eye Irrit. 2, H319 EEC: Xi, R36
1 - < 10	2,2',2''-(Hexahydro-1,3,5-triazine-1,3,5-triyl)triethanol CAS: 4719-04-4, EINECS/ELINCS: 225-208-0 EU-INDEX: 613-114-00-6 ECB-Nr.: GHS/CLP: - EEC: Xn, R22-43
5 - < 10	Polyethylen glycol phenyl ether phosphate CAS: 39464-70-5, EINECS/ELINCS: Polymer EU-INDEX: ECB-Nr.: GHS/CLP: - EEC: Xi, R38-41
1 - < 5,5	Boric acid CAS: 10043-35-3, EINECS/ELINCS: 233-139-2 EU-INDEX: 005-007-00-2 ECB-Nr.: GHS/CLP: Repr. 1B, H360 EEC: T, R60-61
5 - < 10	2,4,7,9-Tetramethyl-5-decyne-4,7-diolethoxylat CAS: 9014-85-1, EINECS/ELINCS: Polymer EU-INDEX: ECB-Nr.: GHS/CLP: - EEC: Xi, R37/38-41
0,1 - < 1	Pyridine-2-thiol 1-oxide, sodium salt CAS: 3811-73-2, EINECS/ELINCS: 223-296-5 EU-INDEX: ECB-Nr.: GHS/CLP: - EEC: Xn-N, R20/21/22-36/38-50

Comment on component parts: SVHC (Candidate List of Substances of Very High Concern for authorisation) \geq 0,1% :
CAS 10043-35-3 - Boric acid
For the wording of the listed risk phrases refer to section 16.

4 First aid measures

General information:	Change soaked clothing.
Inhalation:	Ensure supply of fresh air. In the event of symptoms seek for medical treatment.
Skin contact:	In case of contact with skin wash off immediately with soap and water. Consult a doctor if skin irritation persists.
Eye contact:	In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice.
Ingestion:	Consult a doctor immediately. Do not induce vomiting. Rinse out mouth and give plenty of water to drink.
Advice to doctor:	Treat symptomatically.

5 Fire-fighting measures

Suitable extinguishing media:	Carbon dioxide. Foam. Dry powder. Water spray jet.
Extinguishing media that must not be used:	Full water jet.
Special exposure hazards arising from the substance or preparation itself or combustion products:	Unknown risk of formation of toxic pyrolysis products.
Special protective equipment for firefighters:	Use self-contained breathing apparatus.
Additional information:	Fire residues and contaminated firefighting water must be disposed of in accordance within the local regulations.

6 Accidental release measures

Personal precautions:	High risk of slipping due to leakage/spillage of product. Ensure adequate ventilation.
Environmental precautions:	Prevent spread over a wide area (e.g. by containment or oil barriers). Do not discharge into the drains/surface waters/groundwater.
Methods for cleaning up:	Pick up with absorbent material (e.g. sand, sawdust, universal absorbent, diatomaceous earth). Dispose of absorbed material in accordance within the regulations.

7 Handling and storage

Advice on safe handling:	Use only in well-ventilated areas. Provide suitable vacuuming at the processing machines.
Advice on protection against fire and explosion:	No special measures necessary.
Requirements for storage rooms and vessels:	Keep only in original container.
Advice on storage compatibility:	Do not store together with oxidizing agents.
Further information on storage conditions:	Keep container tightly closed.

8 Exposure controls / personal protection

Additional advice on system design: Ensure adequate ventilation on workstation.

Ingredients with occupational exposure limits to be monitored: (GB)

Range [%]	Substance / WEL: Workplace exposure limit
0,1 - <1	Pyridine-2-thiol 1-oxide, sodium salt / - ppm, 1 mg/m ³ , Germany

Respiratory protection: Breathing apparatus in the event of high concentrations.
Short term: filter apparatus, combination filter A-P2.

Hand protection: butyl rubber, > 120 min (EN 374)
The details concerned are recommendations. Please contact the glove supplier for further information.

Eye protection: Safety glasses.

Skin protection: Light protective clothing of plastic material.

General protective measures: Avoid contact with eyes and skin.

Do not inhale vapours.

Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of these equipments to chemicals should be ascertained with the respective supplier.

Hygiene measures: Do not eat, drink, smoke or take drugs at work.

Remove soiled or soaked clothing immediately.

Wash hands before breaks and after work.

Use barrier skin cream.

Delimitation and monitoring of the environmental exposition:

not determined

9 Physical and chemical properties

Form:	liquid
Color:	yellowish
Odor:	characteristic
pH-value:	9,0
pH-value [1%]:	not determined
Boiling point [°C]:	100
Flash point [°C]:	not applicable
Flammability [°C]:	not determined
Lower explosion limit:	not applicable
Upper explosion limit:	not applicable
Oxidizing properties:	no
Vapour pressure [kPa]:	not determined
Density [g/ml]:	1,06 (20°C / 68,0°F)
Bulk density [kg/m³]:	not applicable
Solubility in water:	miscible
Partition coefficient [n-octanol/water]:	not determined
Viscosity:	not applicable
Relative vapour density determined in air:	not determined
Evaporation speed:	not determined
Melting point [°C]:	<0
Autoignition temperature [°C]:	not determined
Decomposition temperature:	not determined

10 Stability and reactivity

Hazardous reactions: Reactions with oxidizing agents.

Hazardous decomposition products: No hazardous decomposition products known.

11 Toxicological information

Acute oral toxicity:	not determined
Acute dermal toxicity:	not determined
Acute inhalational toxicity:	not determined
Irritant effect on eye:	not determined
Irritant effect on skin:	not determined
Sensitization:	not determined
Subacute toxicity:	not determined
Chronic toxicity:	not determined
Mutagenicity:	not determined
Reproduction toxicity:	not determined
Carcinogenicity:	not determined
Experiences made in practice:	none
General remarks:	Toxicological data are not available. The product was classified on the basis of the calculation procedure of the preparation directive.

12 Ecological information

Fish toxicity:	not determined
Daphnia toxicity:	not determined
Behaviour in environment compartments:	not determined
Behaviour in sewage plant:	not determined
Bacteria toxicity:	not determined
Biological degradability:	not determined
COD:	not determined
BOD 5:	not determined
AOX-advice:	not determined
2006/11/EC:	not determined
General information:	No classification on the basis of the calculation procedure of the preparation directive.


13 Disposal considerations

Product:	Disposal in an incineration plant in accordance with the regulations of the local authorities. Coordinate disposal with the authorities if necessary.
Contaminated packaging:	Packaging that cannot be cleaned should be disposed of as for product. Uncontaminated packaging may be taken for recycling.
Waste no. (recommended):	070604*

14 Transport information

Classification according to ADR:	NO DANGEROUS GOODS
Classification according to IMDG:	NOT CLASSIFIED AS "DANGEROUS GOODS"
Classification according to IATA:	NOT CLASSIFIED AS "DANGEROUS GOODS"

15 Regulatory information

Exposure scenario:	not determined
Chemical safety report:	not determined
Labelling:	The product is classified and labelled in accordance within EC-directives.
Hazard symbols:	 Irritant
Contains:	2,2',2''-(Hexahydro-1,3,5-triazine-1,3,5-triyl)triethanol
R-phrases:	R 41: Risk of serious damage to eyes. R 43: May cause sensitisation by skin contact.
S-phrases:	S 24/25: Avoid contact with skin and eyes. 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.
Special labelling:	none
EEC-REGULATIONS:	1967/548 (2008/58, 30. ATP/ 31. ATP); 1991/689 (2001/118); 1999/13; 2004/42; 648/2004; 1907/2006 (Reach); 1272/2008; 75/324/EWG (2008/47/EG
TRANSPORT-REGULATIONS:	DOT-Classification, ADR (2009); IMDG-Code (34. Amdt.); IATA-DGR (2010).
NATIONAL REGULATIONS (GB):	EH40/2005 Workplace exposure limits with amendments October 2007. CHIP 3/ CHIP 4
Authorisation, TITEL VII:	not applicable
Restrictions, TITEL VIII:	not applicable

16 Other informations

R-phrases (Chapter 03):	R 36: Irritating to eyes. R 37/38: Irritating to respiratory system and skin. R 41: Risk of serious damage to eyes. R 60: May impair fertility. R 61: May cause harm to the unborn child. R 38: Irritating to skin. R 20/21/22: Harmful by inhalation, in contact with skin and if swallowed. R 36/38: Irritating to eyes and skin. R 50: Very toxic to aquatic organisms. R 22: Harmful if swallowed. R 43: May cause sensitisation by skin contact.
Hazard statements (Chapter 03):	H319 Causes serious eye irritation. H360 May damage fertility or the unborn child.
Observe employment restrictions for people:	yes
VOC (1999/13/CE):	not determined

Disclaimer: 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.

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