

**1 Identification of the substance / preparation and of the company**
**Buehler IsoCut Fluid Plus**  
**Article number: 11-2293-016**

<b>Use:</b>	Cutting Fluid
<b>Identified use:</b>	none
<b>Method of operation:</b>	See product information.
<b>Company:</b>	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
<b>Emergency phone:</b>	0800 707 6273 (Only valid if dialled within the UK) +49 (0) 211 974100
<b>Responsible:</b>	Schroeder@chemiebuero.de

**2 Hazards identification**

<b>Physico-chemical hazards:</b>	See chapter 10.
<b>Other hazards:</b>	none
<b>Hazard symbols:</b>	 Irritant
<b>R-phrases:</b>	R 36/37/38: Irritating to eyes, respiratory system and skin.

**3 Composition / Information on ingredients**

Range [%]	Substance
< 20	2,2',2"-Nitrilotriethanol
	CAS: 102-71-6, EINECS/ELINCS: 203-049-8 EU-INDEX: ECB-Nr.:
	GHS/CLP: - EEC: , R
1 - < 20	Fatty acids, C3-2-4
	CAS: 68990-37-4, EINECS/ELINCS: 273-598-6 EU-INDEX: ECB-Nr.:
	GHS/CLP: - EEC: Xn, R22-36
1 - 5	2-Aminoethanol
	CAS: 141-43-5, EINECS/ELINCS: 205-483-3 EU-INDEX: 603-030-00-8 ECB-Nr.:
	GHS/CLP: Acute Tox. 4, Skin Corr. 1B, H332, H312, H302, H314 EEC: C, R20/21/22-34

**Comment on component parts:** Substances of Very High Concern - SVHC: substances are not contained or below 0,1%.  
For the wording of the listed risk phrases refer to section 16.

**4 First aid measures**

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

## 5 Fire-fighting measures

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

## 6 Accidental release measures

<b>Personal precautions:</b>	Ensure adequate ventilation. High risk of slipping due to leakage/spillage of product.
<b>Environmental precautions:</b>	Prevent spread over a wide area (e.g. by containment or oil barriers). Do not discharge into the drains/surface waters/groundwater.
<b>Methods for cleaning up:</b>	Take up with absorbent material (e.g. general-purpose binder). Dispose of absorbed material in accordance with the regulations.

## 7 Handling and storage

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

## 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
5 - < 10	2-Aminoethanol / 1 ppm, 2,5 mg/m <sup>3</sup> , Sk

<b>Respiratory protection:</b>	not applicable
<b>Hand protection:</b>	Butyl rubber, >120 min (EN 374). The details concerned are recommendations. Please contact the glove supplier for further information.
<b>Eye protection:</b>	Safety glasses.
<b>Skin protection:</b>	not applicable
<b>General protective measures:</b>	Avoid contact with eyes and skin.  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.
<b>Hygiene measures:</b>	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.
<b>Delimitation and monitoring of the environmental exposition:</b>	not determined



## 9 Physical and chemical properties

Form:	liquid
Color:	blue
Odor:	characteristic
pH-value:	8,8 - 9,8 (10%ig)
pH-value [1%]:	not determined
Boiling point [°C]:	98
Flash point [°C]:	>93
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]:	1,05 (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]:	not determined
Autoignition temperature [°C]:	not determined
Decomposition temperature:	not determined

## 10 Stability and reactivity

Hazardous reactions:	Reactions with acids and strong 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

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


## 13 Disposal considerations

<b>Product:</b>	Coordinate disposal with the authorities if necessary.
<b>Contaminated packaging:</b>	Packaging that cannot be cleaned should be disposed of as for product. Uncontaminated packaging may be taken for recycling.
<b>Waste no. (recommended):</b>	070604*

## 14 Transport information

<b>Classification according to ADR:</b>	NO DANGEROUS GOODS
<b>Classification according to IMDG:</b>	NOT CLASSIFIED AS "DANGEROUS GOODS"
<b>Classification according to IATA:</b>	NOT CLASSIFIED AS "DANGEROUS GOODS"

## 15 Regulatory information

<b>Exposure scenario:</b>	not determined
<b>Chemical safety report:</b>	not determined
<b>Labelling:</b>	The product is classified and labelled in accordance within EC-directives.
<b>Hazard symbols:</b>	 Irritant
<b>R-phrases:</b>	R 36/37/38: Irritating to eyes, respiratory system and skin.
<b>S-phrases:</b>	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.
<b>Special labelling:</b>	none
<b>EEC-REGULATIONS:</b>	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
<b>TRANSPORT-REGULATIONS:</b>	DOT-Classification, ADR (2009); IMDG-Code (34. Amdt.); IATA-DGR (2010).
<b>NATIONAL REGULATIONS (GB):</b>	EH40/2005 Workplace exposure limits with amendments October 2007. CHIP 3/ CHIP 4
<b>Authorisation, TITEL VII:</b>	not applicable
<b>Restrictions, TITEL VIII:</b>	not applicable

## 16 Other informations

<b>R-phrases (Chapter 03):</b>	R 22: Harmful if swallowed. R 36: Irritating to eyes. R 20/21/22: Harmful by inhalation, in contact with skin and if swallowed. R 34: Causes burns.
<b>Hazard statements (Chapter 03):</b>	H332 Harmful if inhaled. H312 Harmful in contact with skin. H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage.
<b>Observe employment restrictions for people:</b>	yes
<b>VOC (1999/13/CE):</b>	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.

Copyright: Chemiebüro®