


1 Identification of the substance / preparation and of the company
1.1 Product identifier

Cool 2
Article number 109011, 109012

1.2 Relevant identified uses of the substance or mixture and uses advised against
1.2.1 Relevant uses

Cooling lubricant

1.2.2 Uses advised against

None known.

1.3 Details of the supplier of the safety data sheet
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

Address enquiries to
Technical information

info@buehler.fr

Safety Data Sheet

sdb@chemiebuero.de

1.4 Emergency phone

0800 707 6273 (Only valid if dialled within the UK) +49 (0) 211 974100

2 Hazards identification
2.1 Classification of the substance or mixture
2.1.1 Classification according to Regulation (EC) No 1272/2008 [CLP]

not determined

2.1.2 Classification according to Regulation 67/548/EEC or 1999/45/EC

The product does not require a hazard warning label in accordance with EC-directives.

2.2 Label elements
Hazard symbols

none

R-phrases

none

S-phrases

none

Special labelling

Safety data sheet available for professional user on request.

2.3 Other hazards
Physico-chemical hazards

See chapter 10.

Human health dangers

If swallowed or in the event of vomiting, risk of product entering the lungs.

Environmental hazards

Does not contain any PBT or vPvB substances.

Other hazards

Further hazards were not determined with the current level of knowledge.

3 Composition / Information on ingredients
3.1 Substances

The product in question is a mixture.

**3.2 Mixtures**

Range [%]	Substance
5 - 10	2,2' -oxybisethanol
	CAS: 111-46-6, EINECS/ELINCS: 203-872-2, EU-INDEX: 603-140-00-6
	GHS/CLP: Acute Tox. 4, H302
	EEC: Xn R22
1 - 5	Alkanolamine (Germany 72243/00/2010.0050)
	CAS:
	GHS/CLP: not determined
	EEC: Xi R36

Comment on component parts

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

4 First aid measures**4.1 Description of 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	When in contact with the skin, clean 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	Supply with medical care. Do not induce vomiting. Rinse out mouth and give plenty of water to drink.

4.2 Most important symptoms and effects, both acute and delayed

None known.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

5 Fire-fighting measures**5.1 Extinguishing media**

Suitable extinguishing media	Carbon dioxide. Water spray jet. Dry powder. Foam.
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Extinguishing media that must not be used	Full water jet.
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5.2 Special hazards arising from the substance or mixture

Unknown risk of formation of toxic pyrolysis products.

5.3 Advice for firefighters

Use self-contained breathing apparatus.
Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

6 Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

High risk of slipping due to leakage/spillage of product.

6.2 Environmental precautions

Prevent spread over a wide area (e.g. by containment or oil barriers).
Do not discharge into the drains/surface waters/groundwater.



6.3 Methods and material for containment and cleaning up

Pick up with absorbent material (e.g. sand, sawdust, universal absorbent, diatomaceous earth).

Dispose of absorbed material in accordance with the regulations.

6.4 Reference to other sections

See Chapter 8+13

7 Handling and storage

7.1 Precautions for safe handling

Provide suitable vacuuming at the processing machines.

7.2 Conditions for safe storage, including any incompatibilities

Keep only in original container.

Keep container tightly closed.

Recommended storage temperature: 10-30 °C.

Protect from heat/overheating.

7.3 Specific end use(s)

See product use, Chapter 1.2

8 Exposure controls / personal protection

8.1 Control parameters

Ingredients with occupational exposure limits to be monitored (GB)

Range [%]	Substance / WEL: Workplace exposure limit
5 - 10	2,2' -oxybisethanol / 23 ppm, 101 mg/m ³ , -

8.2 Exposure controls

Additional advice on system design Ensure adequate ventilation on workstation.

Eye protection Safety glasses.

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

Skin protection not applicable

Other Avoid contact with eyes and skin.
Do not inhale gases/vapours/aerosols.
Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity handled. The resistance of these equipments to chemicals should be ascertained with the respective supplier.

Use barrier skin cream.

Wash hands before breaks and after work.

Respiratory protection not applicable

Thermal hazards not applicable

Delimitation and monitoring of the environmental exposition See Chapter 6+7.


9 Physical and chemical properties
9.1 Information on basic physical and chemical properties

Form	liquid
Color	yellowish
Odor	characteristic
Odour threshold	not applicable
pH-value	10 (DIN 51757)
pH-value [1%]	not determined
Boiling point [°C]	not determined
Flash point [°C]	not applicable
Flammability [°C]	not applicable
Lower explosion limit	not applicable
Upper explosion limit	not applicable
Oxidizing properties	no
Vapour pressure [kPa]	not determined
Density [g/ml]	1,07 (DIN 51757) (20°C / 68,0°F)
Bulk density [kg/m³]	not applicable
Solubility in water	miscible
Partition coefficient [n-octanol/water]	not determined
Viscosity	4 mm²/s DIN 53018 40°C
Relative vapour density determined in air	not determined
Evaporation speed	not determined
Melting point [°C]	not determined
Autoignition temperature [°C]	not applicable
Decomposition temperature	not determined

9.2 Other information

none

10 Stability and reactivity
10.1 Reactivity

No dangerous reactions known if used as directed.

10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

10.3 Possibility of hazardous reactions

Reactions with acids and strong oxidizing agents.

10.4 Conditions to avoid

See chapter 7

10.5 Incompatible materials

not determined

10.6 Hazardous decomposition products

No hazardous decomposition products known.



11 Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Range [%]	Substance
5 - 10	2,2' -oxybisethanol, CAS: 111-46-6
	LD50, oral, Rat: 12565 mg/kg.
	LD50, dermal, Rabbit: 11890 mg/kg.

Serious eye damage/irritation	not determined
Skin corrosion/irritation	not determined
Respiratory or skin sensitisation	not determined
Specific target organ toxicity — single exposure	not determined
Specific target organ toxicity — repeated exposure	not determined
Mutagenicity	not determined
Reproduction toxicity	not determined
Carcinogenicity	not determined
General remarks	

No classification on the basis of the calculation procedure of the preparation directive.

12 Ecological information

12.1 Toxicity

Range [%]	Substance
5 - 10	2,2' -oxybisethanol, CAS: 111-46-6
	LC50, (96h), fish: > 1000 mg/l.
	EC50, (24h), Daphnia magna: > 10000 mg/l.

12.2 Persistence and degradability

Behaviour in environment compartments	not determined
Behaviour in sewage plant	not determined
Biological degradability	not determined

12.3 Bioaccumulative potential

not determined

12.4 Mobility in soil

not determined

12.5 Results of PBT and vPvB assessment

not applicable

12.6 Other adverse effects

No classification on the basis of the calculation procedure of the preparation directive.



13 Disposal considerations

13.1 Waste treatment methods

Coordinate the waste disposal with the national authorities.

Product

Coordinate disposal with the authorities if necessary.
Disposal in an incineration plant in accordance with the regulations of the local authorities.

Waste no. (recommended)

120110*
120109*

Contaminated packaging

Packaging that cannot be cleaned should be disposed of as for product.
Uncontaminated packaging may be taken for recycling.

Waste no. (recommended)

150110*
150102
150104

14 Transport information

14.1 UN number

See point 14.2 in accordance with UN shipping name

14.2 UN proper shipping name

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"

14.3 Transport hazard class(es)

See point 14.2 in accordance with UN shipping name

14.4 Packing group

See point 14.2 in accordance with UN shipping name

14.5 Environmental hazards

See point 14.2 in accordance with UN shipping name

14.6 Special precautions for user

Relevant information under points 6 to 8.

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

not applicable

15 Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

EEC-REGULATIONS

1967/548 (1999/45); 1991/689 (2001/118); 1999/13; 2004/42; 648/2004; 1907/2006 (Reach);
1272/2008; 75/324/EEC (2008/47/EC); 453/2010/EC

TRANSPORT-REGULATIONS

DOT-Classification, ADR (2011); IMDG-Code (2011, 35. Amdt.); IATA-DGR (2011).

NATIONAL REGULATIONS (GB):

EH40/2005 Workplace exposure limits with amendments October 2007.
CHIP 3/ CHIP 4

15.2 Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

16 Other informations

R-phrases (Chapter 03)

R 22: Harmful if swallowed.
R 36: Irritating to eyes.

Hazard statements (Chapter 03)

H302 Harmful if swallowed.

Observe employment restrictions for people

no

VOC (1999/13/CE)

not applicable



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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