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## SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 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 ITW Test & Measurement GmbH

In der Steele 2

40599 Düsseldorf / GERMANY Phone 0800 707 6273 Fax 0800 707 6274

Homepage www.buehler-met.de E-mail info.uk@buehler.com

Address enquiries to

Technical information info.uk@buehler.com
Safety Data Sheet sdb@chemiebuero.de

1.4 Emergency telephone number

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

# **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

No classification.

2.2 Label elements

The product is required to be labelled in accordance with EC-Directives.

Hazard pictogramsnoneSignal wordnoneHazard statementsnonePrecautionary statementsnone

**Special labelling** EUH210 Safety data sheet available on request.

2.3 Other hazards

Physico-chemical hazards Reactions with acids and strong oxidizing agents.

**Human health dangers** If swallowed or in the event of vomiting, risk of product entering the lungs.

Frequent persistent contact with the skin can cause skin irritation.

**Environmental hazards**Does not contain any PBT or vPvB substances.

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

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## **SECTION 3: Composition / Information on ingredients**

#### Product-type:

The product is a mixture.

| Range [%] | Substance   |
|-----------|---|
| 5 - < 10  | 2,2' -oxybisethanol   |
|           | CAS: 111-46-6, EINECS/ELINCS: 203-872-2, EU-INDEX: 603-140-00-6, Reg-No.: 01-2119457857-21-XXXX |
|           | GHS/CLP: Acute Tox. 4: H302 - STOT RE 2: H373   |
| 1 - < 5   | 2,2'-(methylimino)diethanol   |
|           | CAS: 105-59-9, EINECS/ELINCS: 203-312-7, EU-INDEX: 603-079-00-5, Reg-No.: 01-2119488970-24-XXXX |
|           | GHS/CLP: Eye Irrit. 2: H319   |

Comment on component parts

Substances of Very High Concern - SVHC: substances are not contained or are below 0,1%.

For full text of H-statements: see SECTION 16.

#### **SECTION 4: First aid measures**

#### Description of first aid measures

**General information** Change soaked clothing

Inhalation Ensure supply of fresh air.

In the event of symptoms seek medical treatment.

Skin contact When in contact with the skin, clean with soap and water.

Consult a doctor if skin irritation persists.

Eye contact Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

Ingestion Supply with medical care.

Do not induce vomiting.

Rinse out mouth and give plenty of water to drink.

#### Most important symptoms and effects, both acute and delayed

Irritant effects

# Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## **SECTION 5: Fire-fighting measures**

## **Extinguishing media**

Suitable extinguishing media Carbon dioxide.

Water spray jet. Dry powder. Foam.

Extinguishing media that must not

be used

Full water jet.

## 5.2 Special hazards arising from the substance or mixture

Risk of formation of toxic pyrolysis products.

Carbon monoxide (CO) Carbon dioxide (CO2) Nitrogen oxides (NOx).

# Advice for firefighters

Use self-contained breathing apparatus.

Fire residues and contaminated firefighting water must be disposed of in accordance within

the local regulations.

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# SECTION 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 within the regulations.

#### 6.4 Reference to other sections

See SECTION 8+13

#### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

Provide suitable vacuuming at the processing machines.

Use barrier skin cream.

Wash hands before breaks and after work.

## 7.2 Conditions for safe storage, including any incompatibilities

Keep only in original container. Prevent penetration into the ground.

Do not store together with food and animal food/diet.

Keep container tightly closed.

Recommended storage temperature: 10 - 30°C

Protect from heat/overheating.

### 7.3 Specific end use(s)

See product use, SECTION 1.2

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# SECTION 8: Exposure controls / personal protection

#### 8.1 Control parameters

Ingredients with occupational exposure limits to be monitored (GB)

| Range [%] | Substance   |
|-----------|---|
| 5 - < 10  | 2,2' -oxybisethanol   |
|           | CAS: 111-46-6, EINECS/ELINCS: 203-872-2, EU-INDEX: 603-140-00-6, Reg-No.: 01-2119457857-21-XXXX |
|           | Long-term exposure: 23 ppm, 101 mg/m³   |

#### **DNEL**

| Range [%] | Substance  |
|-----------|--|
| 5 - < 10  | 2,2' -oxybisethanol, CAS: 111-46-6                                       |
|           | Industrial, dermal, Long-term - systemic effects: 106 mg/kg bw/d.        |
|           | general population, inhalative, Long-term - local effects: 60 mg/m³.     |
|           | general population, inhalative, Long-term - local effects: 12 mg/m³.     |
|           | general population, dermal, Long-term - systemic effects: 53 mg/kg bw/d. |

#### **PNEC**

| Range [%] | Substance                                  |
|-----------|--|
| 5 - < 10  | 2,2' -oxybisethanol, CAS: 111-46-6         |
|           | sewage treatment plants (STP), 199,5 mg/L. |
|           | soil, 1,53 mg/kg.                          |
|           | sediment (freshwater), 20,9 mg/kg.         |
|           | seawater, 1 mg/L.                          |
|           | freshwater, 10 mg/L.                       |

#### 8.2 Exposure controls

**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** light protective clothing

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 this equipment to

chemicals should be ascertained with the respective supplier.

**Respiratory protection** Not required under normal conditions.

Thermal hazards not applicable

Delimitation and monitoring of the

environmental exposition

Comply with applicable environmental regulations limiting discharge to air, water and soil.

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## SECTION 9: Physical and chemical properties

#### Information on basic physical and chemical properties

Form liquid Color yellowish Odor characteristic **Odour threshold** not applicable pH-value 10 (DIN 51369)

pH-value [1%] No information available. Boiling point [°C] No information available. Flash point [°C] No information available.

Flammability (solid, gas) [°C] not applicable

Lower explosion limit No information available. No information available. Upper explosion limit

**Oxidizing properties** 

Vapour pressure/gas pressure [kPa] No information available.

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] No information available. 4 mm<sup>2</sup>/s (DIN 53018; 40°C) Relative vapour density determined

in air

No information available.

**Evaporation speed** No information available. No information available. Melting point [°C]

Autoignition temperature [°C] not applicable

Decomposition temperature [°C] No information available.

Other information 9.2

none

#### SECTION 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

Strong heating.

# 10.5 Incompatible materials

Oxidizing agent

# 10.6 Hazardous decomposition products

No hazardous decomposition products known.

In the event of fire: See SECTION 5.



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# **SECTION 11: Toxicological information**

#### 11.1 Information on toxicological effects

#### **Acute toxicity**

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| Range [%] | Substance                                  |
|-----------|--|
| 5 - < 10  | 2,2' -oxybisethanol, CAS: 111-46-6         |
|           | LD50, dermal, Rabbit: 13300 mg/kg bw.      |
|           | LD50, oral, Rat: 19600 mg/kg bw.           |
|           | LC50, inhalative, Rat: 4,6 mg/L.           |
| 1 - < 5   | 2,2'-(methylimino)diethanol, CAS: 105-59-9 |
|           | LD50, oral, Rat: 4680 mg/kg.               |
|           | LD50, dermal, Rabbit: 5990 mg/kg.          |

Serious eye damage/irritation Based on available data, the classification criteria are not met. Skin corrosion/irritation Based on available data, the classification criteria are not met. Respiratory or skin sensitisation Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Specific target organ toxicity —

single exposure

Specific target organ toxicity -

repeated exposure

Mutagenicity Reproduction toxicity Carcinogenicity

Aspiration hazard General remarks

Based on available data, the classification criteria are not met.

Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met.

No classification on the basis of the calculation procedure of the preparation directive. Toxicological data of complete product are not available.

The toxicity data listed pertaining to the ingredients are intended for those working in the medicinal professions, experts for occupational health and safety and toxicologists. The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.

# SECTION 12: Ecological information

# 12.1 Toxicity

| Range [%] | Substance   |
|-----------|---|
| 5 - < 10  | 2,2' -oxybisethanol, CAS: 111-46-6                        |
|           | LC50, (96h), Pimephales promelas: 75200 mg/L.             |
|           | EC50, (24h), Daphnia magna: >10000 mg/L.                  |
|           | EC5, (192h), Scenedesmus quadricauda (algea): >1995 mg/L. |

# 12.2 Persistence and degradability

Behaviour in environment

No information available.

compartments

Behaviour in sewage plant No information available. **Biological degradability** No information available.

# 12.3 Bioaccumulative potential

Accumulation in organisms is not expected. logPow: -1,98 ( CAS 111-46-6)

## 12.4 Mobility in soil

No information available.



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#### 12.5 Results of PBT and vPvB assessment

Based on all available information not to be classified as PBT or vPvB respectively.

#### 12.6 Other adverse effects

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No classification on the basis of the calculation procedure of the preparation directive. The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.

#### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

#### **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

#### **SECTION 14: Transport information**

#### 14.1 UN number

See SECTION 14.2 in accordance with UN shipping name

# 14.2 UN proper shipping name

Transport by land according to

NO DANGEROUS GOODS

ADR/RID

NO DANGEROUS GOODS Inland navigation (ADN)

Marine transport in accordance with NOT CLASSIFIED AS "DANGEROUS GOODS"

**IMDG** 

Air transport in accordance with IATA NOT CLASSIFIED AS "DANGEROUS GOODS"

### 14.3 Transport hazard class(es)

See SECTION 14.2 in accordance with UN shipping name

#### 14.4 Packing group

See SECTION 14.2 in accordance with UN shipping name

#### 14.5 Environmental hazards

See SECTION 14.2 in accordance with UN shipping name



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#### 14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

#### 14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

not applicable

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#### SECTION 15: Regulatory information

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

1991/689 (2001/118); 1999/13; 2004/42; 648/2004; 1907/2006 (REACH); 1272/2008; **EEC-REGULATIONS** 

75/324/EEC (2008/47/EC); 453/2010/EC; (EU) 2015/830

TRANSPORT-REGULATIONS DOT-Classification, ADR (2015); IMDG-Code (2015, 37. Amdt.); IATA-DGR (2015). NATIONAL REGULATIONS (GB): EH40/2005 Workplace exposure limits (Second edition, published December 2011).

CHIP 3/ CHIP 4

- Observe employment restrictions

for people

- VOC (1999/13/CE) not applicable

#### 15.2 Chemical safety assessment

not applicable

#### **SECTION 16: Other information**

#### 16.1 Hazard statements (SECTION 3)

H319 Causes serious eye irritation.

H373 May cause damage to organs through prolonged or repeated exposure if swallowed.

(kidnevs)

H302 Harmful if swallowed.

#### 16.2 Abbreviations and acronyms:

ADR = Accord européen relatif au transport international des marchandises Dangereuses par

RID = Règlement concernant le transport international ferroviaire de marchandises

dangereuses

ADN = Accord européen relatif au transport international des marchandises dangereuses par

voie de navigation intérieure

CAS = Chemical Abstracts Service

CLP = Classification, Labelling and Packaging DMEL = Derived Minimum Effect Level

DNEL = Derived No Effect Level

EC50 = Median effective concentration ECB = European Chemicals Bureau

EEC = European Economic Community

EINECS = European Inventory of Existing Commercial Chemical Substances

ELINCS = European List of Notified Chemical Substances

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association IBC-Code = International Code for the Construction and Equipment of Ships carrying

Dangerous Chemicals in Bulk IC50 = Inhibition concentration, 50%

IMDG = International Maritime Code for Dangerous Goods

IUCLID = International Uniform ChemicaL Information Database

LC50 = Lethal concentration, 50% LD50 = Median lethal dose

MARPOL = International Convention for the Prevention of Marine Pollution from Ships

PBT = Persistent, Bioaccumulative and Toxic substance

PNEC = Predicted No-Effect Concentration

REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals

TLV®/TWA = Threshold limit value – time-weighted average TLV®STEL = Threshold limit value – short-time exposure limit

VOC = Volatile Organic Compounds

vPvB = very Persistent and very Bioaccumulative



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#### 16.3 Other information

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Classification procedure

Modified position SECTION 5 been added: Nitrogen oxides (NOx).

SECTION 5 been added: Carbon dioxide (CO2) SECTION 5 been added: Carbon monoxide (CO)

SECTION 8 been added: Comply with applicable environmental regulations limiting discharge

to air, water and soil.

SECTION 9 been added: No information available.

SECTION 9 deleted: not determined SECTION 10 been added: Strong heating.

SECTION 10 been added: In the event of fire: See SECTION 5.

SECTION 11 been added: Based on available data, the classification criteria are not met.

SECTION 11 deleted: not determined

SECTION 12 been added: No information available.

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SECTION 12 deleted: not determined



