

# SAFETY DATA SHEET



B-Cool MC 610

Safety Data Sheet according to GB/T 16483-2008 and GB/T 17519-2013

## Section 1. Chemical product and company identification

**GHS product identifier** : B-Cool MC 610

**Article No.** : 11610-01

### Relevant identified uses of the substance or mixture and uses advised against

#### Identified uses

Industrial use only.  
Metal working fluids

#### Uses advised against

Consumer use.

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## Section 2. Hazards identification

Classification of the substance or mixture according to GB 13690-2009 and GB 30000-2013

### Emergency overview

Liquid.

Light tan.

Characteristic.

H303 - May be harmful if swallowed.

H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction.

H319 - Causes serious eye irritation.

H361 - Suspected of damaging fertility or the unborn child.

H412 - Harmful to aquatic life with long lasting effects.

IF exposed or concerned: Get medical advice or attention. IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell. If skin irritation or rash occurs: Get medical advice or attention. If eye irritation persists: Get medical advice or attention.

**See Section 12 for environmental precautions.**

## Section 2. Hazards identification

**Classification of the substance or mixture** : ACUTE TOXICITY (oral) - Category 5  
 SKIN CORROSION/IRRITATION - Category 2  
 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A  
 SKIN SENSITIZATION - Category 1  
 TOXIC TO REPRODUCTION - Category 2  
 AQUATIC HAZARD (LONG-TERM) - Category 3

### GHS label elements

#### Hazard pictograms



#### Signal word

: Warning

#### Hazard statements

: H303 - May be harmful if swallowed.  
 H315 - Causes skin irritation.  
 H317 - May cause an allergic skin reaction.  
 H319 - Causes serious eye irritation.  
 H361 - Suspected of damaging fertility or the unborn child.  
 H412 - Harmful to aquatic life with long lasting effects.

### Precautionary statements

#### Prevention

: P201 - Obtain special instructions before use.  
 P202 - Do not handle until all safety precautions have been read and understood.  
 P280 - Wear protective gloves, protective clothing and eye or face protection.  
 P273 - Avoid release to the environment.  
 P261 - Avoid breathing vapor.  
 P264 - Wash thoroughly after handling.  
 P272 - Contaminated work clothing should not be allowed out of the workplace.

#### Response

: P308 + P313 - IF exposed or concerned: Get medical advice or attention.  
 P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.  
 P302 + P352 - IF ON SKIN: Wash with plenty of water.  
 P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention.  
 P362 + P364 - Take off contaminated clothing and wash it before reuse.  
 P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P337 + P313 - If eye irritation persists: Get medical advice or attention.

#### Storage

: P405 - Store locked up.

#### Disposal

: P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

#### Physical and chemical hazards

: No known significant effects or critical hazards.

#### Health hazards

: May be harmful if swallowed. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Suspected of damaging fertility or the unborn child.

### Symptoms related to the physical, chemical and toxicological characteristics

#### Eye contact

: Adverse symptoms may include the following:  
 pain or irritation  
 watering  
 redness

#### Inhalation

: Adverse symptoms may include the following:  
 reduced fetal weight  
 increase in fetal deaths  
 skeletal malformations

## Section 2. Hazards identification

- Skin contact** : Adverse symptoms may include the following:  
irritation  
redness  
reduced fetal weight  
increase in fetal deaths  
skeletal malformations
- Ingestion** : Adverse symptoms may include the following:  
reduced fetal weight  
increase in fetal deaths  
skeletal malformations

### Delayed and immediate effects and also chronic effects from short and long term exposure

#### Short term exposure

- Potential immediate effects** : Not available.
- Potential delayed effects** : Not available.

#### Long term exposure

- Potential immediate effects** : Not available.
- Potential delayed effects** : Not available.

**Environmental hazards** : Harmful to aquatic life with long lasting effects.

**Other hazards which do not result in classification** : None known.

## Section 3. Composition/information on ingredients

**Substance/mixture** : Mixture

| <b>Ingredient name</b>                                                  | <b>%</b> | <b>Identifiers</b> |
|-------------------------------------------------------------------------|----------|--------------------|
| 1-aminopropan-2-ol                                                      | ≤10      | CAS: 78-96-6       |
| neodecanoic acid                                                        | ≤10      | CAS: 26896-20-8    |
| Alcohols, C16-18, ethoxylated propoxylated                              | ≤10      | CAS: 68002-96-0    |
| Fatty acids, castor-oil, polymd.                                        | ≤5       | CAS: 68604-47-7    |
| 2,2',2''-nitrilotriethanol                                              | ≤3       | CAS: 102-71-6      |
| Phosphoric acid, mono- and bis(C16-20-branched and linear alkyl) esters | ≤3       | CAS: 160498-34-0   |
| Poly(oxy-1,2-ethanediyl), α-(carboxymethyl)-ω-(octyloxy)-               | ≤3       | CAS: 53563-70-5    |
| benzotriazole                                                           | ≤2       | CAS: 95-14-7       |
| dicyclohexylamine                                                       | <1       | CAS: 101-83-7      |
| 2-n-butyl-benzo[d]isothiazol-3-one                                      | <0.1     | CAS: 4299-07-4     |

#### **Additional information :**

Neutralisation product: Equilibrium of Ionic Pairs according to REACH Annex V, 4.

**There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.**

**Occupational exposure limits, if available, are listed in Section 8.**

## Section 4. First aid measures

### Description of necessary first aid measures

- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Continue to rinse for at least 10 minutes. Check for and remove any contact lenses. Get medical attention.
- Inhalation** : Avoid breathing vapor or mist. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- Skin contact** : Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion** : Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

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

#### Potential acute health effects

- Eye contact** : Causes serious eye irritation.
- Inhalation** : No known significant effects or critical hazards.
- Skin contact** : Causes skin irritation. May cause an allergic skin reaction.
- Ingestion** : May be harmful if swallowed.

#### Over-exposure signs/symptoms

- Eye contact** : Adverse symptoms may include the following:  
 pain or irritation  
 watering  
 redness
- Inhalation** : Adverse symptoms may include the following:  
 reduced fetal weight  
 increase in fetal deaths  
 skeletal malformations
- Skin contact** : Adverse symptoms may include the following:  
 irritation  
 redness  
 reduced fetal weight  
 increase in fetal deaths  
 skeletal malformations
- Ingestion** : Adverse symptoms may include the following:  
 reduced fetal weight  
 increase in fetal deaths  
 skeletal malformations

### Indication of immediate medical attention and special treatment needed, if necessary

- Notes to physician** : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

## Section 4. First aid measures

- Specific treatments** : No specific treatment.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

### Extinguishing media

- Suitable extinguishing media** : Use an extinguishing agent suitable for the surrounding fire.
- Unsuitable extinguishing media** : None known.

**Specific hazards arising from the chemical** : In a fire or if heated, a pressure increase will occur and the container may burst. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

**Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide  
nitrogen oxides

**Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

**Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

**For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

**For emergency responders** : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

### Methods and materials for containment and cleaning up

**Small spill** : Stop leak if without risk. Move containers from spill area. Absorb with an inert material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

## Section 6. Accidental release measures

- Large spill** : Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.

## Section 7. Handling and storage

### Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Avoid release to the environment. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

- Conditions for safe storage, including any incompatibilities** : Store between the following temperatures: 0 to 40°C (32 to 104°F). Shelf life: (minimum) 24 months. Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

## Section 8. Exposure controls/personal protection

### Control parameters

#### Occupational exposure limits

| <b>Ingredient name</b>     | <b>Exposure limits</b>                                                         |
|----------------------------|--------------------------------------------------------------------------------|
| 2,2',2''-nitrilotriethanol | <b>ACGIH TLV (United States, 7/2023)</b><br>TWA 8 hours: 5 mg/m <sup>3</sup> . |

#### Biological exposure indices

No exposure indices known.

- Appropriate engineering controls** : If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

### Individual protection measures

## Section 8. Exposure controls/personal protection

- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
- Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.
- Skin protection**
- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. Wear suitable gloves tested to EN374. Nitrile gloves. thickness 0.3 mm (minimum) .
- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved before handling this product.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved before handling this product.
- Respiratory protection** : A respirator is not needed under normal and intended conditions of product use. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators.

## Section 9. Physical and chemical properties and safety characteristics

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

### Appearance

- Physical state** : Liquid.
- Color** : Light tan.
- Odor** : Characteristic.
- Odor threshold** : Not available.
- pH** : 8.8 to 9.2 [Conc. (% w/w): 5%]
- Melting point/freezing point** : Not available.
- Pour point** : <0°C (<32°F)
- Boiling point or initial boiling point and boiling range** : Not available.
- Flash point** : Open cup: Not applicable.
- Evaporation rate** : Not available.
- Flammability** : Not available.
- Lower and upper explosion limit/flammability limit** : Not available.
- Vapor pressure** : Not available.
- Relative vapor density** : Not available.
- Relative density** : Not available.
- Density** : 1.001 g/cm<sup>3</sup> [20°C (68°F)]
- Solubility(ies)** :

## Section 9. Physical and chemical properties and safety characteristics

| Media      | Result  |
|------------|---------|
| cold water | Soluble |

|                                               |                                                                                                                                                 |
|-----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Solubility in water</b>                    | : Not available.                                                                                                                                |
| <b>Partition coefficient: n-octanol/water</b> | : Not applicable.                                                                                                                               |
| <b>Auto-ignition temperature</b>              | : Not available.                                                                                                                                |
| <b>Decomposition temperature</b>              | : Not available.                                                                                                                                |
| <b>Viscosity</b>                              | : Dynamic (room temperature): Not available.<br>Kinematic (room temperature): Not available.<br>Kinematic (40°C (104°F)): 57.1 mm²/s (57.1 cSt) |

### Particle characteristics

|                             |                   |
|-----------------------------|-------------------|
| <b>Median particle size</b> | : Not applicable. |
|-----------------------------|-------------------|

## Section 10. Stability and reactivity

|                                           |                                                                                                        |
|-------------------------------------------|--------------------------------------------------------------------------------------------------------|
| <b>Reactivity</b>                         | : No specific test data related to reactivity available for this product or its ingredients.           |
| <b>Chemical stability</b>                 | : Shelf life: (minimum) 24 months.                                                                     |
| <b>Possibility of hazardous reactions</b> | : Under normal conditions of storage and use, hazardous reactions will not occur.                      |
| <b>Conditions to avoid</b>                | : No specific data.                                                                                    |
| <b>Incompatible materials</b>             | : No specific data.                                                                                    |
| <b>Hazardous decomposition products</b>   | : Under normal conditions of storage and use, hazardous decomposition products should not be produced. |

## Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

#### Product/ingredient name

2-aminopropan-2-ol

#### Result

**Rat - Oral - LD50**  
2098 mg/kg  
**Rabbit - Dermal - LD50**  
1851 mg/kg  
**Rat - Dermal - LD50**  
3640 mg/kg  
**Rat - Oral - LD50**  
>2000 mg/kg  
**Rat - Oral - LD50**  
>2000 mg/kg  
**Rat - Oral - LD50**  
>2000 mg/kg  
**Rabbit - Dermal - LD50**  
>2000 mg/kg  
**Rat - Oral - LD50**  
6400 mg/kg  
**Rat - Oral - LD50**  
>5000 mg/kg  
**Rat - Oral - LD50**

neodecanoic acid

Alcohols, C16-18, ethoxylated propoxylated

Fatty acids, castor-oil, polymd.

2,2',2''-nitrilotriethanol

Phosphoric acid, mono- and bis  
(C16-20-branched and linear alkyl) esters  
Poly(oxy-1,2-ethanediyl), α-(carboxymethyl)-

## Section 11. Toxicological information

|                                    |                                                                                                          |
|------------------------------------|----------------------------------------------------------------------------------------------------------|
| ω-(octyloxy)-<br>benzotriazole     | >2000 mg/kg<br><b>Rat - Oral - LD50</b><br>500 mg/kg<br><b>Rabbit - Dermal - LD50</b>                    |
| dicyclohexylamine                  | >2000 mg/kg<br><b>Rat - Oral - LD50</b><br>200 mg/kg<br><b>Rabbit - Dermal - LD50</b>                    |
| 2-n-butyl-benzo[d]isothiazol-3-one | 200 mg/kg<br><b>Rat - Dermal - LD50</b><br>>2000 mg/kg<br><b>Rat - Oral - LD50</b><br>4267 to 4732 mg/kg |

**Conclusion/Summary [Product]** : Not available.

### Skin corrosion/irritation

Not available.

**Conclusion/Summary [Product]** : pH value - Used for classification

### Serious eye damage/eye irritation

Not available.

**Conclusion/Summary [Product]** : pH value - Used for classification

### Respiratory corrosion/irritation

Not available.

**Conclusion/Summary [Product]** : Not available.

### Respiratory or skin sensitization

Not available.

### **Skin**

**Conclusion/Summary [Product]** : Not available.

### **Respiratory**

**Conclusion/Summary [Product]** : Not available.

### Germ Cell Mutagenicity

Not available.

**Conclusion/Summary [Product]** : Not available.

### Carcinogenicity

Not available.

**Conclusion/Summary [Product]** : Not available.

## Section 11. Toxicological information

### Reproductive toxicity

#### Product/ingredient name

2-aminopropan-2-ol

#### Result

**Mammal - species unspecified - Unreported**

Fertility effects: Equivocal

**Conclusion/Summary [Product]** : Not available.

### Specific target organ toxicity (single exposure)

Not available.

### Specific target organ toxicity (repeated exposure)

Not available.

### Aspiration hazard

Not available.

### Information on the likely routes of exposure

Not available.

### Potential acute health effects

- Eye contact** : Causes serious eye irritation.
- Inhalation** : No known significant effects or critical hazards.
- Skin contact** : Causes skin irritation. May cause an allergic skin reaction.
- Ingestion** : May be harmful if swallowed.

### Symptoms related to the physical, chemical and toxicological characteristics

- Eye contact** : Adverse symptoms may include the following:  
pain or irritation  
watering  
redness
- Inhalation** : Adverse symptoms may include the following:  
reduced fetal weight  
increase in fetal deaths  
skeletal malformations
- Skin contact** : Adverse symptoms may include the following:  
irritation  
redness  
reduced fetal weight  
increase in fetal deaths  
skeletal malformations
- Ingestion** : Adverse symptoms may include the following:  
reduced fetal weight  
increase in fetal deaths  
skeletal malformations

### Delayed and immediate effects and also chronic effects from short and long term exposure

#### Short term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

#### Long term exposure

## Section 11. Toxicological information

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

### Potential chronic health effects

Not available.

**Conclusion/Summary [Product]** : Not available.

**General** : Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

**Carcinogenicity** : No known significant effects or critical hazards.

**Mutagenicity** : No known significant effects or critical hazards.

**Reproductive toxicity** : Suspected of damaging fertility or the unborn child.

### Numerical measures of toxicity

#### Acute toxicity estimates

| Product/ingredient name                    | Oral (mg/kg) | Dermal (mg/kg) | Inhalation (gases) (ppm) | Inhalation (vapors) (mg/l) | Inhalation (dusts and mists) (mg/l) |
|--------------------------------------------|--------------|----------------|--------------------------|----------------------------|-------------------------------------|
| B-Cool MC 610                              | 3764.1       | >5000          | N/A                      | N/A                        | N/A                                 |
| 1-aminopropan-2-ol                         | 2098         | 1851           | N/A                      | N/A                        | N/A                                 |
| neodecanoic acid                           | 500          | 3640           | N/A                      | N/A                        | N/A                                 |
| Alcohols, C16-18, ethoxylated propoxylated | 2500         | N/A            | N/A                      | N/A                        | N/A                                 |
| Fatty acids, castor-oil, polymd.           | 2500         | N/A            | N/A                      | N/A                        | N/A                                 |
| 2,2',2''-nitrilotriethanol                 | 6400         | 2500           | N/A                      | N/A                        | N/A                                 |
| benzotriazole                              | 500          | 2500           | N/A                      | N/A                        | N/A                                 |
| dicyclohexylamine                          | 200          | 300            | N/A                      | N/A                        | N/A                                 |

## Section 12. Ecological information

### Toxicity

#### Product/ingredient name

1-aminopropan-2-ol

#### Result

##### **Acute - LC50 - Fresh water**

Fish - Goldfish - *Carassius auratus*

Size: 6.2 cm; Weight: 3.3 g

210 mg/l [96 hours]

Effect: Mortality

##### **Acute - LC50**

Fish

>100 mg/l [96 hours]

##### **Acute - EC50**

Daphnia

>100 mg/l [48 hours]

##### **LC50**

OECD 203

Fish

>100 mg/l [96 hours]

##### **Chronic - NOEC - Fresh water**

Daphnia - Water flea - *Daphnia magna*

16 mg/l [21 days]

neodecanoic acid

Alcohols, C16-18, ethoxylated propoxylated

2,2',2''-nitrilotriethanol

## Section 12. Ecological information

|                                    |                                               |
|------------------------------------|-----------------------------------------------|
| benzotriazole                      | Effect: Behavior                              |
|                                    | <b>Acute - EC50</b>                           |
|                                    | OECD                                          |
|                                    | Daphnia - Water flea - <i>Daphnia galeata</i> |
|                                    | Age: <24 hours                                |
| dicyclohexylamine                  | 15.8 mg/l [48 hours]                          |
|                                    | Effect: Intoxication                          |
|                                    | <b>LC50</b>                                   |
|                                    | Fish                                          |
|                                    | 180 mg/l [96 hours]                           |
|                                    | <b>EC50</b>                                   |
|                                    | Algae                                         |
|                                    | 75 mg/l [72 hours]                            |
|                                    | <b>Acute - LC50</b>                           |
|                                    | Fish                                          |
|                                    | 12 mg/l [96 hours]                            |
|                                    | <b>Acute - EC50</b>                           |
|                                    | Daphnia                                       |
|                                    | 8 mg/l [48 hours]                             |
|                                    | <b>Acute - NOEC</b>                           |
| 2-n-butyl-benzo[d]isothiazol-3-one | Daphnia                                       |
|                                    | 0.016 mg/l [21 days]                          |
|                                    | <b>LC50</b>                                   |
|                                    | Algae                                         |
|                                    | 0.38 mg/l [72 hours]                          |
|                                    | <b>NOEC</b>                                   |
|                                    | Algae                                         |
|                                    | 0.013 mg/l [72 hours]                         |
|                                    | <b>EC50</b>                                   |
|                                    | Daphnia                                       |
|                                    | 0.093 mg/l [48 hours]                         |
|                                    | <b>EC50</b>                                   |
|                                    | Algae                                         |
|                                    | 0.45 mg/l [72 hours]                          |
|                                    | <b>LC50</b>                                   |
|                                    | Fish                                          |
|                                    | 0.15 mg/l [96 hours]                          |

**Conclusion/Summary [Product]** : Not available.

### Persistence/degradability

Not available.

**Conclusion/Summary [Product]** : Not available.

| Product/ingredient name | Aquatic half-life | Photolysis | Biodegradability |
|-------------------------|-------------------|------------|------------------|
| benzotriazole           | -                 | -          | Not readily      |

### Bioaccumulation/Accumulation

| Product/ingredient name    | LogP <sub>ow</sub> | BCF  | Potential |
|----------------------------|--------------------|------|-----------|
| 1-aminopropan-2-ol         | -0.96              | -    | Low       |
| neodecanoic acid           | 2.1                | <225 | Low       |
| 2,2',2''-nitrilotriethanol | -1                 | <3.9 | Low       |
| benzotriazole              | 1.44               | -    | Low       |
| dicyclohexylamine          | 2.724              | -    | Low       |

## Section 12. Ecological information

### Mobility in soil

**Soil/Water partition coefficient** : Not available.

### Other adverse effects

No known significant effects or critical hazards.

## Section 13. Disposal considerations

**Disposal methods** : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

## Section 14. Transport information

|                                   | China          | UN             | IMDG           | IATA           |
|-----------------------------------|----------------|----------------|----------------|----------------|
| <b>UN number</b>                  | Not regulated. | Not regulated. | Not regulated. | Not regulated. |
| <b>UN proper shipping name</b>    | -              | -              | -              | -              |
| <b>Transport hazard class(es)</b> | -              | -              | -              | -              |
| <b>Packing group</b>              | -              | -              | -              | -              |
| <b>Environmental hazards</b>      | No.            | No.            | No.            | No.            |

### Additional information

**Special precautions for user** : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

### Extinguishing media

**Suitable extinguishing media** : Use an extinguishing agent suitable for the surrounding fire.

**Unsuitable extinguishing media** : None known.

**Incompatible materials** : No specific data.

**Transport in bulk according to IMO instruments** : Not available.

## Section 15. Regulatory information

### List of Goods banned for Importing

None of the components are listed.

### Drug Precursors Requiring an Import/Export License

None of the components are listed.

### Inventory of Hazardous Chemicals

| Ingredient name   | CAS number | Status | Reference number |
|-------------------|------------|--------|------------------|
| Dicyclohexylamine | 101-83-7   | Listed | 347              |

### List of Explosive Precursors

None of the components are listed.

### List of Toxic Chemicals Severely Restricted for Importing & Exporting by China

None of the components are listed.

### Catalogue and classification of drug precursor chemicals

None of the components are listed.

### Inventory of Highly Toxic Articles

None of the components are listed.

### Catalogue of Hazardous Chemicals of Priority Management

None of the components are listed.

### Catalogue of Occupational Disease Hazard Factors - Dust

None of the components are listed.

### Catalogue of Occupational Disease Hazard Factors - Chemical Factors

| Ingredient name  | Status |
|------------------|--------|
| isopropanolamine | Listed |

### International regulations

#### Chemical Weapon Convention List Schedules I, II & III Chemicals

| List name    | Ingredient name           | Status |
|--------------|---------------------------|--------|
| Schedule III | 2,2',2"-nitrilotriethanol | Listed |

#### Montreal Protocol

Not listed.

#### Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

#### UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

### Inventory list

**China** : All components are listed or exempted.

## Section 16. Other information

### History

|                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Date of printing</b>               | : 2026年03月27日                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Date of issue/Date of revision</b> | : 2026年03月27日                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Date of previous issue</b>         | : 2026年03月13日                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Version</b>                        | : 2.09                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Prepared by</b>                    | : Product Stewardship Blaser Swissslube AG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Key to abbreviations</b>           | : ATE = Acute Toxicity Estimate<br>BCF = Bioconcentration Factor<br>GHS = Globally Harmonized System of Classification and Labelling of Chemicals<br>IATA = International Air Transport Association<br>IBC = Intermediate Bulk Container<br>IMDG = International Maritime Dangerous Goods<br>LogPow = logarithm of the octanol/water partition coefficient<br>MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)<br>N/A = Not available<br>SGG = Segregation Group<br>UN = United Nations |

### Procedure used to derive the classification

| Classification                                   | Justification      |
|--------------------------------------------------|--------------------|
| ACUTE TOXICITY (oral) - Category 5               | Calculation method |
| SKIN CORROSION/IRRITATION - Category 2           | Expert judgment    |
| SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A | Expert judgment    |
| SKIN SENSITIZATION - Category 1                  | Calculation method |
| TOXIC TO REPRODUCTION - Category 2               | Calculation method |
| AQUATIC HAZARD (LONG-TERM) - Category 3          | Calculation method |

### IP346:

The contained refined mineral oils are exempt of labelling. The content of polycyclic aromatic hydrocarbons (PCA) according to IP346 is < 3% (DMSO-extract).

Indicates information that has changed from previously issued version.

### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.