

# SAFETY DATA SHEET

Blasoclean AF

## Section 1. Identification of the hazardous chemical and of the supplier

**Product identifier** : Blasoclean AF  
**Number Article** : 29170-04  
**Product type** : Liquid.

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

| Identified uses                                          |
|----------------------------------------------------------|
| Industrial use only.<br>Metal working fluids<br>Additive |
| Uses advised against                                     |
| Consumer use.                                            |

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**Emergency telephone number (with hours of operation)** : +60 3 6207 4347 (24 hours / 7days)

## Section 2. Hazards identification

**Classification of the substance or mixture** : SKIN IRRITATION - Category 2  
EYE IRRITATION - Category 2  
SKIN SENSITIZATION - Category 1  
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3  
HAZARDOUS TO THE AQUATIC ENVIRONMENT - CHRONIC HAZARD - Category 3

### GHS label elements

**Hazard pictograms** :



**Signal word** : Warning

## Section 2. Hazards identification

|                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Hazard statements</b>               | : H315 - Causes skin irritation.<br>H317 - May cause an allergic skin reaction.<br>H319 - Causes serious eye irritation.<br>H335 - May cause respiratory irritation.<br>H412 - Harmful to aquatic life with long lasting effects.                                                                                                                                                                                                                                                                                                                                                        |
| <b><u>Precautionary statements</u></b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Prevention</b>                      | : P280 - Wear protective gloves. Wear eye or face protection.<br>P273 - Avoid release to the environment.<br>P261 - Avoid breathing vapor.<br>P264 - Wash thoroughly after handling.                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Response</b>                        | : P304 + P312 - IF INHALED: Call a POISON CENTER or doctor if you feel unwell.<br>P302 + P352 - IF ON SKIN: Wash with plenty of water.<br>P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention.<br>P362 - Take off contaminated clothing and wash before reuse.<br>P363 - Wash contaminated clothing before reuse.<br>P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes.<br>Remove contact lenses, if present and easy to do. Continue rinsing.<br>P337 + P313 - If eye irritation persists: Get medical advice or attention. |
| <b>Storage</b>                         | : P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Disposal</b>                        | : P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

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

## Section 3. Composition and information of the ingredients of the hazardous chemical

|                                      |                  |
|--------------------------------------|------------------|
| <b>Substance/mixture</b>             | : Mixture        |
| <b>Other means of identification</b> | : Not available. |

| Ingredient name                            | %    | Identifiers     |
|--------------------------------------------|------|-----------------|
| 2-aminoethanol                             | ≤10  | CAS: 141-43-5   |
| neodecanoic acid                           | ≤9   | CAS: 26896-20-8 |
| Alcohols, C16-18, ethoxylated propoxylated | ≤10  | CAS: 68002-96-0 |
| benzotriazole                              | ≤3   | CAS: 95-14-7    |
| dicyclohexylamine                          | ≤2.5 | CAS: 101-83-7   |
| potassium hydroxide                        | ≤1   | CAS: 1310-58-3  |
| 1,2-benzisothiazol-3(2H)-one               | ≤0.3 | CAS: 2634-33-5  |
| 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 it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. 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 necessary, call a poison center or physician. 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 adverse health effects persist or are severe. 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** : May cause respiratory irritation.
- Skin contact** : Causes skin irritation. May cause an allergic skin reaction.
- Ingestion** : No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

- Eye contact** : Adverse symptoms may include the following:  
pain or irritation  
watering  
redness
- Inhalation** : Adverse symptoms may include the following:  
respiratory tract irritation  
coughing
- Skin contact** : Adverse symptoms may include the following:  
irritation  
redness
- Ingestion** : No specific data.

### 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.
- Specific treatments** : No specific treatment.

## Section 4. First aid measures

- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. 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  
metal oxide/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. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. 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: 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

| Ingredient name                    | Exposure limits                                                                                                 |
|------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| 2-aminoethanol                     | <b>Schedule I USECHH 2000 (Malaysia, 4/2000)</b><br>TWA 8 hours: 3 ppm.<br>TWA 8 hours: 7.5 mg/m <sup>3</sup> . |
| dicyclohexylamine                  | <b>DFG MAC-values list (Germany, 7/2024)</b><br>Absorbed through skin.                                          |
| potassium hydroxide                | <b>Schedule I USECHH 2000 (Malaysia, 4/2000)</b><br>CEIL: 2 mg/m <sup>3</sup> .                                 |
| 1,2-benzisothiazol-3(2H)-one       | <b>DFG MAC-values list (Germany, 7/2024)</b><br>Skin sensitizer.                                                |
| 2-n-butyl-benzo[d]isothiazol-3-one | <b>DFG MAC-values list (Germany, 7/2024)</b><br>Skin sensitizer.                                                |

### Biological exposure indices

No exposure indices known.

## Section 8. Exposure controls/personal protection

- Appropriate engineering controls** : Use only with adequate ventilation. 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**
- 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** : Yellow.
- Odor** : Amine-like.
- Odor threshold** : Not available.
- pH** : 8.8 to 9.6 [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.

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

|                                                    |                                                                                                                                                            |
|----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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                                            | : 1.02 g/cm <sup>3</sup> [20°C (68°F)]                                                                                                                     |
| Solubility in water                                | : Not available.                                                                                                                                           |
| Miscible with water                                | : Yes.                                                                                                                                                     |
| Partition coefficient: n-octanol/water             | : Not applicable.                                                                                                                                          |
| Auto-ignition temperature                          | : Not available.                                                                                                                                           |
| Decomposition temperature                          | : Not available.                                                                                                                                           |
| Viscosity                                          | : Dynamic (room temperature): Not available.<br>Kinematic (room temperature): Not available.<br>Kinematic (40°C (104°F)): 9.3 mm <sup>2</sup> /s (9.3 cSt) |

### Particle characteristics

|                      |                   |
|----------------------|-------------------|
| Median particle size | : Not applicable. |
|----------------------|-------------------|

## Section 10. Stability and reactivity

|                                    |                                                                                                        |
|------------------------------------|--------------------------------------------------------------------------------------------------------|
| Reactivity                         | : No specific test data related to reactivity available for this product or its ingredients.           |
| Chemical stability                 | : Shelf life: 24 months.                                                                               |
| Possibility of hazardous reactions | : Under normal conditions of storage and use, hazardous reactions will not occur.                      |
| Conditions to avoid                | : No specific data.                                                                                    |
| Incompatible materials             | : No specific data.                                                                                    |
| Hazardous decomposition products   | : 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                    | Result                                                                                |
|--------------------------------------------|---------------------------------------------------------------------------------------|
| 2-aminoethanol                             | <b>Rat - Oral - LD50</b><br>1720 mg/kg<br><b>Rabbit - Dermal - LD50</b><br>2504 mg/kg |
| neodecanoic acid                           | <b>Rat - Dermal - LD50</b><br>3640 mg/kg<br><b>Rat - Oral - LD50</b><br>>2000 mg/kg   |
| Alcohols, C16-18, ethoxylated propoxylated | <b>Rat - Oral - LD50</b><br>>2000 mg/kg                                               |
| benzotriazole                              | <b>Rat - Oral - LD50</b><br>500 mg/kg                                                 |

## Section 11. Toxicological information

|                                    |                                                                                                                                                                                                                                                                                                                                                                           |
|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| dicyclohexylamine                  | <b>Rabbit - Dermal - LD50</b><br>>2000 mg/kg<br><b>Rat - Oral - LD50</b><br>200 mg/kg<br><b>Rabbit - Dermal - LD50</b><br>200 mg/kg<br><b>Rat - Oral - LD50</b><br>333 to 338 mg/kg<br><b>Rat - Oral - LD50</b><br>1020 mg/kg<br><b>Rat - Dermal - LD50</b><br>>5000 mg/kg<br><b>Rat - Dermal - LD50</b><br>>2000 mg/kg<br><b>Rat - Oral - LD50</b><br>4267 to 4732 mg/kg |
| potassium hydroxide                |                                                                                                                                                                                                                                                                                                                                                                           |
| 1,2-benzisothiazol-3(2H)-one       |                                                                                                                                                                                                                                                                                                                                                                           |
| 2-n-butyl-benzo[d]isothiazol-3-one |                                                                                                                                                                                                                                                                                                                                                                           |

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

### Skin corrosion/irritation

#### **Product/ingredient name**

2-aminoethanol

potassium hydroxide

#### **Result**

**Rabbit - Skin - Moderate irritant**

Amount/concentration applied: 505 mg

**Guinea pig - Skin - Severe irritant**

Duration of treatment/exposure: 24 hours

Amount/concentration applied: 50 mg

**Human - Skin - Severe irritant**

Duration of treatment/exposure: 24 hours

Amount/concentration applied: 50 mg

**Rabbit - Skin - Severe irritant**

Duration of treatment/exposure: 24 hours

Amount/concentration applied: 50 mg

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

### Serious eye damage/eye irritation

#### **Product/ingredient name**

2-aminoethanol

potassium hydroxide

#### **Result**

**Rabbit - Eyes - Severe irritant**

Amount/concentration applied: 250 ug

**Rabbit - Eyes - Moderate irritant**

Duration of treatment/exposure: 24 hours

Amount/concentration applied: 1 mg

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

### Respiratory corrosion/irritation

Not available.

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

### Skin sensitization

Not available.

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

## Section 11. Toxicological information

### Respiratory sensitization

Not available.

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

### Germ cell mutagenicity

Not available.

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

### Carcinogenicity

Not available.

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

### Reproductive toxicity

Not available.

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

### Specific target organ toxicity (single exposure)

#### **Product/ingredient name**

2-aminoethanol

#### **Result**

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3

### 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** : May cause respiratory irritation.
- Skin contact** : Causes skin irritation. May cause an allergic skin reaction.
- Ingestion** : No known significant effects or critical hazards.

### 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:
  - respiratory tract irritation
  - coughing

## Section 11. Toxicological information

- Skin contact** : Adverse symptoms may include the following:  
irritation  
redness
- Ingestion** : No specific data.

### 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.

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

### 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) |
|------------------------------|--------------|----------------|--------------------------|----------------------------|-------------------------------------|
| Blasoclean AF                | >2000        | >2000          | N/A                      | 81.8                       | N/A                                 |
| 2-aminoethanol               | 1720         | 1100           | N/A                      | 11                         | N/A                                 |
| neodecanoic acid             | 500          | 3640           | N/A                      | N/A                        | N/A                                 |
| benzotriazole                | 500          | N/A            | N/A                      | N/A                        | N/A                                 |
| dicyclohexylamine            | 200          | 300            | N/A                      | N/A                        | N/A                                 |
| potassium hydroxide          | 500          | N/A            | N/A                      | N/A                        | N/A                                 |
| 1,2-benzisothiazol-3(2H)-one | 450          | N/A            | N/A                      | N/A                        | 0.21                                |

## Section 12. Ecological information

### Toxicity

#### Product/ingredient name

2-aminoethanol

#### Result

##### Acute - LC50 - Fresh water

Fish - Bluegill - *Lepomis macrochirus*

Size: 40 to 50 mm

329160 µg/l [96 hours]

Effect: Mortality

##### Chronic - NOEC

Fish

## Section 12. Ecological information

|                                            |                                                                                                                                                |
|--------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| neodecanoic acid                           | 1.2 mg/l [30 days]<br><b>Chronic - NOEC</b><br>Daphnia                                                                                         |
|                                            | 0.85 mg/l [21 days]<br><b>Acute - LC50</b><br>Fish                                                                                             |
|                                            | >100 mg/l [96 hours]<br><b>Acute - EC50</b><br>Daphnia                                                                                         |
| Alcohols, C16-18, ethoxylated propoxylated | >100 mg/l [48 hours]<br><b>LC50</b><br>OECD 203                                                                                                |
|                                            | Fish<br>>100 mg/l [96 hours]<br><b>Acute - EC50</b><br>OECD                                                                                    |
|                                            | Daphnia - Water flea - <i>Daphnia galeata</i><br>Age: <24 hours<br>15.8 mg/l [48 hours]<br><u>Effect</u> : Intoxication<br><b>LC50</b><br>Fish |
| benzotriazole                              | 180 mg/l [96 hours]<br><b>EC50</b><br>Algae                                                                                                    |
|                                            | 75 mg/l [72 hours]<br><b>Acute - LC50</b><br>Fish                                                                                              |
|                                            | 12 mg/l [96 hours]<br><b>Acute - EC50</b><br>Daphnia                                                                                           |
| dicyclohexylamine                          | 8 mg/l [48 hours]<br><b>Acute - NOEC</b><br>Daphnia                                                                                            |
|                                            | 0.016 mg/l [21 days]<br><b>LC50</b><br>Algae                                                                                                   |
|                                            | 0.38 mg/l [72 hours]<br><b>NOEC</b><br>Algae                                                                                                   |
| 2-n-butyl-benzo[d]isothiazol-3-one         | 0.013 mg/l [72 hours]<br><b>EC50</b><br>Daphnia                                                                                                |
|                                            | 0.093 mg/l [48 hours]<br><b>EC50</b><br>Algae                                                                                                  |
|                                            | 0.45 mg/l [72 hours]<br><b>LC50</b><br>Fish                                                                                                    |
|                                            | 0.15 mg/l [96 hours]                                                                                                                           |

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

### Persistence and degradability

Not available.

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

## Section 12. Ecological information

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

### Bioaccumulative potential

| Product/ingredient name | LogP <sub>ow</sub> | BCF  | Potential |
|-------------------------|--------------------|------|-----------|
| 2-aminoethanol          | -1.31              | -    | Low       |
| neodecanoic acid        | 2.1                | <225 | Low       |
| benzotriazole           | 1.44               | -    | Low       |
| dicyclohexylamine       | 2.724              | -    | Low       |

### Mobility in soil

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

### Other adverse effects

No known significant effects or critical hazards.

## Section 13. Disposal information

**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

|                                   | UN             | ADR/RID        | 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.            |

**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.

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

## Section 15. Regulatory information

### National regulations

#### EHS Register

Not determined

#### Poison Act, Poison List - Schedule 1

|                     | Part I  |         |         |         | Part II | Exempt              |
|---------------------|---------|---------|---------|---------|---------|---------------------|
| Ingredient name     | Group A | Group B | Group C | Group D |         |                     |
| Potassium hydroxide | -       | -       | -       | -       | -       | Exemption may apply |

#### Poison Act, Poison List - Schedule 3

Not applicable.

### International regulations

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

| List name    | Ingredient name | Status |
|--------------|-----------------|--------|
| Schedule III | Triethanolamine | 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

|                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
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| <b>Version</b>                        | : 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <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

## Section 16. Other information

| Classification                                                                                                                                                                                                                                                       | Justification                                                                                         |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| SKIN IRRITATION - Category 2<br>EYE IRRITATION - Category 2<br>SKIN SENSITIZATION - Category 1<br>SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3<br>HAZARDOUS TO THE AQUATIC ENVIRONMENT - CHRONIC HAZARD - Category 3 | Expert judgment<br>Expert judgment<br>Calculation method<br>Calculation method<br><br>Expert judgment |

📌 Indicates information that has changed from previously issued version.

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