

SAFETY DATA SHEET



B-Cool 755

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

1.1 Product identifier

Product name : B-Cool 755
UFI : 5MN0-5D23-P30V-RTJ9
Article No. : 11755-43

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

| Identified uses |
|--|
| Metal working fluids Industrial use only. |
| Uses advised against |
| Consumer use. |

1.3 Details of the supplier of the safety data sheet

Manufacturer : BLASER SWISSLUBE AG
Winterseistrasse 22
CH-3415 Hasle-Rüegsau
Switzerland
Tel: +41 (0)34 460 01 01
E-Mail: contact@blaser.com

e-mail address of person responsible for this SDS : reach@blaser.com

1.4 Emergency telephone number

National advisory body/Poison Centre

Telephone number : 145 (from abroad: +41 44 251 51 51)
Information: +41 44 251 66 66

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Skin Irrit. 2, H315
Eye Irrit. 2, H319
Skin Sens. 1, H317

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

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SECTION 2: Hazards identification

Hazard pictograms

:



Signal word

: Warning

Hazard statements

: H315 - Causes skin irritation.
H317 - May cause an allergic skin reaction.
H319 - Causes serious eye irritation.

Precautionary statements

Prevention

: P280 - Wear protective gloves. Wear eye or face protection.
P261 - Avoid breathing vapour.
P264 - Wash thoroughly after handling.

Response

: P362 + P364 - Take off contaminated clothing and wash it before reuse.
P302 + P352 - IF ON SKIN: Wash with plenty of water.
P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention.
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.

Disposal

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

Supplemental label elements

: EUH070 - Toxic by eye contact.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

: Not applicable.

2.3 Other hazards

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

: This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

Other hazards which do not result in classification

: None known.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

: Mixture

| Product/ingredient name | Identifiers | % | Classification | Specific Conc. Limits, M-factors and ATEs | Type |
|--|--|-----------|---|---|------|
| Alcohols, C16-18, ethoxylated propoxylated | REACH #: Polymer EC: 614-209-5 CAS: 68002-96-0 | ≥10 - ≤15 | Aquatic Chronic 3, H412 | - | [1] |
| 1-aminopropan-2-ol | REACH #: 01-2119475331-43 EC: 201-162-7 CAS: 78-96-6 Index: 603-082-00-1 | ≤10 | Acute Tox. 4, H312 Skin Corr. 1B, H314 Eye Dam. 1, H318 | ATE [Dermal] = 1851 mg/kg | [1] |
| Fatty acids, tall-oil, reaction products with acrylic acid | REACH #: 01-2119972299-21 EC: 939-424-4 CAS: 1469983-44-5 | ≤10 | Skin Irrit. 2, H315 Eye Dam. 1, H318 | - | [1] |

Date of issue/Date of revision

: 18. Dec. 2023

Date of previous issue

: No previous validation

Version : 1

2/15

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SECTION 3: Composition/information on ingredients

| | | | | | |
|---|---|------|---|--|---------|
| Phosphoric acid, mono- and di-C11-14 (linear and branched) alkyl esters | REACH #: 01-2119976356-25 EC: 800-484-0 CAS: 154518-38-4 | ≤5 | Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 2, H411 | - | [1] |
| 2-amino-2-ethylpropanediol | REACH #: 01-2119958191-37 EC: 204-101-2 CAS: 115-70-8 | ≤3 | Eye Dam. 1, H318 | - | [1] |
| 2-amino-2-methylpropanol | REACH #: 01-2119475788-16 EC: 204-709-8 CAS: 124-68-5 Index: 603-070-00-6 | ≤3 | Skin Irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Chronic 3, H412 | - | [1] [2] |
| Poly(oxy-1,2-ethanediyl), α-(carboxymethyl)-ω-[(9Z)-9-octadecen-1-yloxy]- | REACH #: Exempt CAS: 57635-48-0 | ≤3 | Eye Dam. 1, H318 | - | [1] |
| (Z)-N-methyl-N-(1-oxo-9-octadecenyl)glycine | REACH #: 01-2119488991-20 EC: 203-749-3 CAS: 110-25-8 | ≤3 | Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Acute 1, H400 Aquatic Chronic 3, H412 | ATE [Inhalation (dusts and mists)] = 1.5 mg/l M [Acute] = 1 | [1] [2] |
| dicyclohexylamine | REACH #: 01-2119493354-33 EC: 202-980-7 CAS: 101-83-7 Index: 612-066-00-3 | ≤3 | Acute Tox. 3, H301 Acute Tox. 2, H310 Skin Corr. 1B, H314 Eye Dam. 1, H318 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 | ATE [Oral] = 200 mg/kg ATE [Dermal] = 200 mg/kg M [Acute] = 1 M [Chronic] = 1 | [1] |
| pyridine-2-thiol 1-oxide, sodium salt | REACH #: Biocide EC: 223-296-5 CAS: 3811-73-2 | ≤0.3 | Acute Tox. 4, H302 Acute Tox. 3, H311 Acute Tox. 3, H331 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 STOT RE 1, H372 (nervous system) Aquatic Acute 1, H400 Aquatic Chronic 2, H411 EUH070 | ATE [Oral] = 500 mg/kg ATE [Dermal] = 790 mg/kg ATE [Inhalation (dusts and mists)] = 0.5 mg/l M [Acute] = 100 | [1] [2] |
| 2-aminobutan-1-ol | REACH #: 01-2119492338-28 EC: 202-488-2 CAS: 96-20-8 | ≤0.3 | Acute Tox. 4, H302 Skin Corr. 1, H314 Eye Dam. 1, H318 Aquatic Acute 1, H400 | ATE [Oral] = 500 mg/kg M [Acute] = 1 | [1] [2] |
| octhilinone (ISO) | REACH #: Biocide EC: 247-761-7 CAS: 26530-20-1 Index: 613-112-00-5 | <0.1 | Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 2, H330 Skin Corr. 1, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 EUH071 | ATE [Oral] = 125 mg/kg ATE [Dermal] = 311 mg/kg ATE [Inhalation (dusts and mists)] = 0.27 mg/l Skin Sens. 1, H317: C ≥ 0.0015% M [Acute] = 100 | [1] [2] |

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SECTION 3: Composition/information on ingredients

| | | | | | |
|--|--|--|--|-------------------|--|
| | | | See Section 16 for the full text of the H statements declared above. | M [Chronic] = 100 | |
|--|--|--|--|-------------------|--|

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, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

Type

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

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

SECTION 4: First aid measures

4.1 Description of first aid measures

- Eye contact** : Get medical attention immediately. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes.
- Inhalation** : Avoid breathing vapour 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 adverse health effects persist or are severe. 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.
- 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.
- 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.

4.2 Most important symptoms and effects, both acute and delayed

Over-exposure signs/symptoms

- Eye contact** : Adverse symptoms may include the following:
systemic toxicity
pain or irritation
watering
redness
- Inhalation** : No specific data.

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SECTION 4: First aid measures

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

4.3 Indication of any immediate medical attention and special treatment needed

- 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 5: Firefighting measures

5.1 Extinguishing media

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

5.2 Special hazards arising from the substance or mixture

- Hazards from the substance or mixture** : In a fire or if heated, a pressure increase will occur and the container may burst.
- Hazardous combustion products** : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
nitrogen oxides

5.3 Advice for firefighters

- 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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 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 spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Avoid contact with eyes. Put on appropriate personal protective equipment.
- For emergency responders** : If specialised 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".

- 6.2 Environmental precautions** : Avoid dispersal of spilt 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).

6.3 Methods and material for containment and cleaning up

SECTION 6: Accidental release measures

- Small spill** : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
- Large spill** : Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. 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. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product.
- 6.4 Reference to other sections** : See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 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 vapour or mist. 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.

7.2 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. 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 unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

7.3 Specific end use(s)

- Recommendations** : Not available.
- Industrial sector specific solutions** : Not available.

SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

8.1 Control parameters

Occupational exposure limits

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SECTION 8: Exposure controls/personal protection

| Product/ingredient name | Exposure limit values |
|---|--|
| 2-amino-2-methylpropanol | SUVA (Switzerland, 1/2021). Absorbed through skin. STEL: 17.4 mg/m ³ 15 minutes. Form: vapour and aerosols STEL: 4.8 ppm 15 minutes. Form: vapour and aerosols TWA: 8.7 mg/m ³ 8 hours. Form: vapour and aerosols TWA: 2.4 ppm 8 hours. Form: vapour and aerosols |
| (Z)-N-methyl-N-(1-oxo-9-octadecenyl)glycine | SUVA (Switzerland, 3/2022). TWA: 0.1 mg/m ³ 8 hours. Form: Inhalable fraction STEL: 0.2 mg/m ³ 15 minutes. Form: Inhalable fraction |
| pyridine-2-thiol 1-oxide, sodium salt | SUVA (Switzerland, 1/2021). Absorbed through skin. TWA: 0.2 mg/m ³ 8 hours. Form: Inhalable fraction STEL: 0.4 mg/m ³ 15 minutes. Form: Inhalable fraction |
| 2-aminobutan-1-ol | SUVA (Switzerland, 1/2021). Absorbed through skin. STEL: 7.4 mg/m ³ 15 minutes. Form: vapour and aerosols STEL: 2 ppm 15 minutes. Form: vapour and aerosols TWA: 3.7 mg/m ³ 8 hours. Form: vapour and aerosols TWA: 1 ppm 8 hours. Form: vapour and aerosols |
| octhilinone (ISO) | SUVA (Switzerland, 3/2022). Absorbed through skin. Skin sensitiser. TWA: 0.05 mg/m ³ 8 hours. Form: Inhalable fraction STEL: 0.1 mg/m ³ 15 minutes. Form: Inhalable fraction |

Biological exposure indices

No exposure indices known.

Recommended monitoring procedures : Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

No DNELs/DMELs available.

PNECs

No PNECs available

8.2 Exposure controls

Appropriate engineering controls : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

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

SECTION 8: Exposure controls/personal 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.
- 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.

SECTION 9: Physical and chemical properties

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

9.1 Information on basic physical and chemical properties

Appearance

- Physical state** : Liquid.
- Colour** : Tan.
- Odour** : Amine-like.
- Odour threshold** : Not available.
- Melting point/freezing point** : Not available.
- Pour point** : <0°C
- Initial boiling point and boiling range** : Not available.
- Flammability (solid, gas)** : Not available.
- Upper/lower flammability or explosive limits** : Not available.
- Flash point** : Open cup: 138°C
- Auto-ignition temperature** : Not available.
- Decomposition temperature** : Not available.
- pH** : 8.8 to 9.6 [Conc. (% w/w): 5%]
- Viscosity** : Kinematic (40°C): 113.6 mm²/s
- Partition coefficient: n-octanol/ water** : Not applicable.
- Dispersibility properties** :

| Media | Result |
|------------|-------------|
| cold water | Dispersible |
| hot water | Dispersible |

- Vapour pressure** : Not available.
- Relative density** : Not available.
- Density** : 0.932 g/cm³ [20°C]

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SECTION 9: Physical and chemical properties

Vapour density : Not available.

Particle characteristics

Median particle size : Not applicable.

9.2.1 Information with regard to physical hazard classes

Explosive properties : Not available.

Oxidising properties : Not available.

9.2.2 Other safety characteristics

SECTION 10: Stability and reactivity

10.1 Reactivity : No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability : Shelf life: 24 months.

10.3 Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid : No specific data.

10.5 Incompatible materials : No specific data.

10.6 Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

| Product/ingredient name | Result | Species | Dose | Exposure |
|---|-------------|---------|-------------|----------|
| Alcohols, C16-18, ethoxylated propoxylated 1-aminopropan-2-ol | LD50 Oral | Rat | >2000 mg/kg | - |
| | LD50 Dermal | Rabbit | 1851 mg/kg | - |
| | LD50 Oral | Rat | 2098 mg/kg | - |
| Fatty acids, tall-oil, reaction products with acrylic acid | LD50 Oral | Rat | 6176 mg/kg | - |
| | LD50 Dermal | Rat | >2000 mg/kg | - |
| | LD50 Oral | Rat | >2000 mg/kg | - |
| Phosphoric acid, mono- and di-C11-14 (linear and branched) alkyl esters | LD50 Dermal | Rat | >2000 mg/kg | - |
| | LD50 Oral | Rat | >2000 mg/kg | - |
| | LD50 Dermal | Rat | >2000 mg/kg | - |
| 2-amino-2-ethylpropanediol | LD50 Dermal | Rabbit | >2000 mg/kg | - |
| | LD50 Dermal | Rabbit | >2000 mg/kg | - |
| | LD50 Dermal | Rabbit | >2000 mg/kg | - |
| 2-amino-2-methylpropanol | LD50 Dermal | Rabbit | >2000 mg/kg | - |
| | LD50 Dermal | Rabbit | >2000 mg/kg | - |
| | LD50 Dermal | Rabbit | >2000 mg/kg | - |
| Poly(oxy-1,2-ethanediyl), α-(carboxymethyl)-ω-[(9Z)-9-octadecen-1-yloxy]- | LD50 Oral | Rat | >2000 mg/kg | - |
| | LD50 Oral | Rat | >5000 mg/kg | - |
| | LD50 Dermal | Rabbit | 200 mg/kg | - |
| (Z)-N-methyl-N-(1-oxo-9-octadecenyl)glycine dicyclohexylamine | LD50 Dermal | Rabbit | 200 mg/kg | - |
| | LD50 Oral | Rat | 1800 mg/kg | - |
| | LD50 Dermal | Rat | 1500 mg/kg | - |
| pyridine-2-thiol 1-oxide, sodium salt | LD50 Dermal | Rat | 1800 mg/kg | - |
| | LD50 Oral | Rat | 1500 mg/kg | - |

Conclusion/Summary : Not available.

Acute toxicity estimates

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SECTION 11: Toxicological information

| Product/ingredient name | Oral (mg/kg) | Dermal (mg/kg) | Inhalation (gases) (ppm) | Inhalation (vapours) (mg/l) | Inhalation (dusts and mists) (mg/l) |
|--|--------------|----------------|--------------------------|-----------------------------|-------------------------------------|
| B-Cool 755 | >2000 | >2000 | N/A | N/A | 23.3 |
| 1-aminopropan-2-ol | 2098 | 1851 | N/A | N/A | N/A |
| Fatty acids, tall-oil, reaction products with acrylic acid | 6176 | N/A | N/A | N/A | N/A |
| (Z)-N-methyl-N-(1-oxo-9-octadecenyl)glycine | N/A | N/A | N/A | N/A | 1.5 |
| dicyclohexylamine | 200 | 200 | N/A | N/A | N/A |
| pyridine-2-thiol 1-oxide, sodium salt | 500 | 790 | N/A | N/A | 0.5 |
| 2-aminobutan-1-ol | 500 | N/A | N/A | N/A | N/A |
| octhilinone (ISO) | 125 | 311 | N/A | N/A | 0.27 |

Irritation/Corrosion

Conclusion/Summary

Skin : pH value - Used for classification

Eyes : pH value - Used for classification

Sensitisation

Conclusion/Summary : Not available.

Mutagenicity

Conclusion/Summary : Not available.

Carcinogenicity

Conclusion/Summary : Not available.

Reproductive toxicity

Conclusion/Summary : Not available.

Teratogenicity

Conclusion/Summary : Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

| Product/ingredient name | Category | Route of exposure | Target organs |
|---------------------------------------|------------|-------------------|----------------|
| pyridine-2-thiol 1-oxide, sodium salt | Category 1 | - | nervous system |

Aspiration hazard

Not available.

Information on likely routes of exposure : Not available.

Potential acute health effects

Eye contact : Toxic by 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 : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : Adverse symptoms may include the following:
systemic toxicity
pain or irritation
watering
redness

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SECTION 11: Toxicological information

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

Delayed and immediate effects as well as 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 | : 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. |

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Not available.

11.2.2 Other information

Not available.

SECTION 12: Ecological information

12.1 Toxicity

| Product/ingredient name | Result | Species | Exposure |
|---|----------------------------------|-----------------------------------|----------|
| Alcohols, C16-18, ethoxylated propoxylated | LC50 >100 mg/l | Fish | 96 hours |
| 1-aminopropan-2-ol | Acute LC50 210 mg/l Fresh water | Fish - <i>Carassius auratus</i> | 96 hours |
| 2-amino-2-methylpropanol | LC50 193 mg/l | Daphnia | 48 hours |
| (Z)-N-methyl-N-(1-oxo-9-octadecenyl)glycine | LC50 1 to 10 mg/l | Fish | 96 hours |
| dicyclohexylamine | Acute EC50 70.1 mg/l Fresh water | Daphnia - <i>Daphnia magna</i> | 48 hours |
| pyridine-2-thiol 1-oxide, sodium salt | EC50 0.0012 mg/l | Algae | 72 hours |
| octhilinone (ISO) | EC50 0.0088 mg/l | Daphnia | 48 hours |
| | Acute LC50 47 ppb Fresh water | Fish - <i>Oncorhynchus mykiss</i> | 96 hours |

| | |
|---------------------------|-------------------------|
| Conclusion/Summary | : On basis of test data |
|---------------------------|-------------------------|

12.2 Persistence and degradability

| | |
|---------------------------|------------------|
| Conclusion/Summary | : Not available. |
|---------------------------|------------------|

| Product/ingredient name | Aquatic half-life | Photolysis | Biodegradability |
|---|-------------------|------------------|------------------|
| (Z)-N-methyl-N-(1-oxo-9-octadecenyl)glycine | - | 85%; < 28 day(s) | Readily |

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SECTION 12: Ecological information

12.3 Bioaccumulative potential

| Product/ingredient name | LogP _{ow} | BCF | Potential |
|---|--------------------|-----|-----------|
| 1-aminopropan-2-ol | -0.96 | - | Low |
| 2-amino-2-methylpropanol | -0.63 | - | Low |
| (Z)-N-methyl-N-(1-oxo-9-octadecenyl)glycine | 3.5 to 4.2 | - | Low |
| dicyclohexylamine | 2.724 | 459 | Low |
| 2-aminobutan-1-ol | -0.45 | - | Low |
| octhilinone (ISO) | 2.45 | - | Low |

12.4 Mobility in soil

Soil/water partition coefficient (K_{oc}) : Not available.

Mobility : Not available.

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

12.6 Endocrine disrupting properties

Not available.

12.7 Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1 Waste treatment methods

Product

Methods of disposal : The generation of waste should be avoided or minimised 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.

Hazardous waste : Yes.

European waste catalogue (EWC)

| Waste code | Waste designation |
|------------|--|
| 12 01 07* | mineral-based machining oils free of halogens (except emulsions and solutions) |
| 12 01 09* | machining emulsions and solutions free of halogens |

Packaging

Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Special precautions : 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 spilt material and runoff and contact with soil, waterways, drains and sewers.

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SECTION 14: Transport information

| | ADR/RID | ADN | IMDG | IATA |
|---------------------------------|----------------|----------------|----------------|----------------|
| 14.1 UN number or ID number | Not regulated. | Not regulated. | Not regulated. | Not regulated. |
| 14.2 UN proper shipping name | - | - | - | - |
| 14.3 Transport hazard class(es) | - | - | - | - |
| 14.4 Packing group | - | - | - | - |
| 14.5 Environmental hazards | No. | No. | No. | No. |

14.6 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.

14.7 Maritime transport in bulk according to IMO instruments : Not available.

SECTION 15: Regulatory information

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

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles : Not applicable.

Other EU regulations

Industrial emissions (integrated pollution prevention and control) - Air : Not listed

Industrial emissions (integrated pollution prevention and control) - Water : Not listed

Ozone depleting substances (1005/2009/EU)

Not listed.

Prior Informed Consent (PIC) (649/2012/EU)

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SECTION 15: Regulatory information

Not listed.

Persistent Organic Pollutants

Not listed.

Seveso Directive

This product is not controlled under the Seveso Directive.

National regulations

VOC content : Exempt.

Hazardous liquids for water : Class B

References :

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

15.2 Chemical safety assessment : No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms

: ATE = Acute Toxicity Estimate
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level
EUH statement = CLP-specific Hazard statement
N/A = Not available
PBT = Persistent, Bioaccumulative and Toxic
PNEC = Predicted No Effect Concentration
RRN = REACH Registration Number
SGG = Segregation Group
vPvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

| Classification | Justification |
|---|--|
| Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 | Expert judgment Expert judgment Calculation method |

Full text of abbreviated H statements

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SECTION 16: Other information

| | |
|--------|---|
| H301 | Toxic if swallowed. |
| H302 | Harmful if swallowed. |
| H310 | Fatal in contact with skin. |
| H311 | Toxic in contact with skin. |
| H312 | Harmful in contact with skin. |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H330 | Fatal if inhaled. |
| H331 | Toxic if inhaled. |
| H332 | Harmful if inhaled. |
| H372 | Causes damage to organs through prolonged or repeated exposure. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H411 | Toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |
| EUH070 | Toxic by eye contact. |
| EUH071 | Corrosive to the respiratory tract. |

Full text of classifications [CLP/GHS]

| | |
|-------------------|---|
| Acute Tox. 2 | ACUTE TOXICITY - Category 2 |
| Acute Tox. 3 | ACUTE TOXICITY - Category 3 |
| Acute Tox. 4 | ACUTE TOXICITY - Category 4 |
| Aquatic Acute 1 | SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1 |
| Aquatic Chronic 1 | LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1 |
| Aquatic Chronic 2 | LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2 |
| Aquatic Chronic 3 | LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3 |
| Eye Dam. 1 | SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1 |
| Eye Irrit. 2 | SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 |
| Skin Corr. 1 | SKIN CORROSION/IRRITATION - Category 1 |
| Skin Corr. 1B | SKIN CORROSION/IRRITATION - Category 1B |
| Skin Irrit. 2 | SKIN CORROSION/IRRITATION - Category 2 |
| Skin Sens. 1 | SKIN SENSITISATION - Category 1 |
| Skin Sens. 1A | SKIN SENSITISATION - Category 1A |
| STOT RE 1 | SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 1 |

IP346:

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

| | |
|--|--|
| Date of printing | : 18. Dec 2023 |
| Date of issue/ Date of revision | : 18. Dec. 2023 |
| Date of previous issue | : No previous validation |
| Version | : 1 |
| Responsible name | : Product Stewardship Blaser Swissslube AG |

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