

SAFETY DATA SHEET

B-Cool MC 600

1. Product and company identification

Product name : B-Cool MC 600
Product code : 11600-02
Date of issue/ Date of revision : 6/20/2025
Version : 1

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.

Manufacturer : BLASER SWISSLUBE AG
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Supplier's details : Blaser Swisslube Japan Co.Ltd
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Emergency telephone number (with hours of operation) : 0120 015 230 (24時間/7日)

2. Hazards identification

GHS Classification : SKIN IRRITATION - Category 2
EYE IRRITATION - Category 2A
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

2. Hazards identification

Hazard statements	: H315 - Causes skin irritation. H319 - Causes serious eye irritation. H335 - May cause respiratory irritation. H412 - Harmful to aquatic life with long lasting effects.
Precautionary statements	
General	: Not applicable.
Prevention	: P280 - Wear protective gloves. Wear eye or face protection. P271 - Use only outdoors or in a well-ventilated area. P273 - Avoid release to the environment. P261 - Avoid breathing vapor. P264 - Wash thoroughly after handling.
Response	: P304 + P340 + P312 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell. P302 + P352 - IF ON SKIN: Wash with plenty of water. P332 + P313 - If skin irritation 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. P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.
Disposal	: P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

3. Composition/information on ingredients

Substance/mixture : Mixture

Ingredient name	Identifiers	CSCL	%
Distillates (petroleum), hydrotreated heavy naphthenic, baseoil - unspecified	CAS: 64742-52-5	(9)-1703 / (9)-1692	≥10 - ≤25
2,2',2''-nitrilotriethanol	CAS: 102-71-6	2-308; 2-353	≤10
Alcohols, C16-18, ethoxylated propoxylated	CAS: -	7-97	≤10
2-aminoethanol	CAS: 141-43-5	2-301	≤8.0
neodecanoic acid	CAS: 26896-20-8	2-608	≤5.0
Phosphoric acid, C11-14-isoalkyl esters, C13-rich	CAS: 52933-07-0	2-1986	≤3.0
dodecanedioic acid	CAS: 693-23-2	2-878	≤3.0
pyridine-2-thiol 1-oxide, sodium salt	CAS: 3811-73-2	9-1473	≤0.10
2-n-butyl-benzo[d]isothiazol-3-one	CAS: 4299-07-4	5-6512	<0.10

Additional information :

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

4. First aid measures

- 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** : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- 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.
- 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

- Inhalation** : May cause respiratory irritation.
- Skin contact** : Causes skin irritation.
- Eye contact** : Causes serious eye irritation.

Over-exposure signs/symptoms

- Inhalation** : Adverse symptoms may include the following:
respiratory tract irritation
coughing
- Skin contact** : Adverse symptoms may include the following:
irritation
redness
- Eye contact** : Adverse symptoms may include the following:
pain or irritation
watering
redness

- 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.
- 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.

5. Fire-fighting measures

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.

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.

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.

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.

7. Handling and storage

Handling

Protective measures : Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. 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.

7. Handling and storage

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.

Storage

Conditions for safe storage : 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.

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.

Occupational exposure limits

Distillates (petroleum), hydrotreated heavy naphthenic, baseoil - unspecified

2,2',2''-nitrilotriethanol

Japan Society for Occupational Health (Japan, 5/2023) [Oil mist, mineral]

OEL-M 8 hours: 3 mg/m³. Form: Mist.

Technical Guideline Concerning the Applications, etc. of Concentration Standard for Preventing Health Hazards (Japan, 6/2024)

8 hours: 1 mg/m³.

Biological exposure indices

No exposure indices known.

Individual protection measures

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.

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) .

Eye 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

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved before handling this product. 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.

9. Physical and chemical properties

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

Physical state	: Liquid.
Color	: Yellow.
Odor	: Agreeable.
pH	: 8.8 to 9.4 [Conc. (% w/w): 5%]
Melting point/freezing point	: Not available.
Softening point	: Not available.
Pour point	: <0°C
Boiling point or initial boiling point and boiling range	: Not available.
Flash point	: Open cup: Not applicable.
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 g/cm ³ [20°C]
Solubility in water	: Not available.
Partition coefficient: n-octanol/water	: Not applicable.
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.
Viscosity	: Kinematic (40°C): 43 mm ² /s (43 cSt)
<u>Particle characteristics</u>	
Median particle size	: Not applicable.

10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: Shelf life: (minimum) 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.

11. Toxicological information

Acute toxicity

Product/ingredient name

Distillates (petroleum), hydrotreated heavy naphthenic, baseoil - unspecified

-

2,2',2''-nitritotriethanol

-

Alcohols, C16-18, ethoxylated propoxylated

2-aminoethanol

-

neodecanoic acid

-

Phosphoric acid, C11-14-isoalkyl esters, C13-rich

-

dodecanedioic acid

-

pyridine-2-thiol 1-oxide, sodium salt

-

2-n-butyl-benzo[d]isothiazol-3-one

-

Result

Rat - Oral - LD50

>5000 mg/kg

Rabbit - Dermal - LD50

>5000 mg/kg

Rabbit - Dermal - LD50

>2000 mg/kg

Rat - Oral - LD50

6400 mg/kg

Rat - Oral - LD50

>2000 mg/kg

Rat - Oral - LD50

1720 mg/kg

Rabbit - Dermal - LD50

2504 mg/kg

Rat - Dermal - LD50

3640 mg/kg

Rat - Oral - LD50

>2000 mg/kg

Rat - Oral - LD50

>2000 mg/kg

Rat - Dermal - LD50

>2000 mg/kg

Rat - Dermal - LD50

>6000 mg/kg

Rat - Oral - LD50

>3000 mg/kg

Rabbit - Dermal - LD50

1800 mg/kg

Rat - Female - Oral - LD50

1208 mg/kg

Rat - Dermal - LD50

>2000 mg/kg

Rat - Oral - LD50

4267 to 4732 mg/kg

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 600	>2000	>2000	N/A	108.5	N/A
2,2',2''-nitritotriethanol	6400	2500	N/A	N/A	N/A
Alcohols, C16-18, ethoxylated propoxylated	2500	N/A	N/A	N/A	N/A
2-aminoethanol	1720	1100	N/A	11	N/A
neodecanoic acid	500	3640	N/A	N/A	N/A
Phosphoric acid, C11-14-isoalkyl esters, C13-rich	2500	2500	N/A	N/A	N/A
dodecanedioic acid	2500	N/A	N/A	N/A	N/A
pyridine-2-thiol 1-oxide, sodium salt	500	790	N/A	N/A	0.5
2-n-butyl-benzo[d]isothiazol-3-one	2500	2500	N/A	N/A	N/A

Conclusion/Summary [Product] : Not available.

Skin corrosion/irritation

Product/ingredient name

2-aminoethanol

Result

Rabbit - Skin - Moderate irritant

Amount/concentration applied: 505 mg

11. Toxicological information

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

Serious eye damage/eye irritation

Product/ingredient name

2-aminoethanol

Result

Rabbit - Eyes - Severe irritant

Amount/concentration applied: 250 ug

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.

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)

Product/ingredient name

pyridine-2-thiol 1-oxide, sodium salt

Result

SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (nervous system) - Category 1

11. Toxicological information

Aspiration hazard

Not available.

12. Ecological information

Ecotoxicity

Product/ingredient name

Result

Distillates (petroleum), hydrotreated heavy naphthenic, baseoil - unspecified

EC50

Fish

>1000 mg/l [96 hours]

Chronic - NOEC - Fresh water

Daphnia - Water flea - *Daphnia magna*

16 mg/l [21 days]

Effect: Behavior

2,2',2"-nitritotriethanol

LC50

OECD 203

Fish

>100 mg/l [96 hours]

Acute - LC50 - Fresh water

Fish - Bluegill - *Lepomis macrochirus*

Size: 40 to 50 mm

329160 µg/l [96 hours]

Effect: Mortality

Alcohols, C16-18, ethoxylated propoxylated

Chronic - NOEC

Fish

1.2 mg/l [30 days]

Chronic - NOEC

Daphnia

0.85 mg/l [21 days]

2-aminoethanol

Acute - LC50

Fish

>100 mg/l [96 hours]

-

Acute - EC50

Daphnia

>100 mg/l [48 hours]

-

EC50

Algae - Algae

150 mg/l [72 hours]

neodecanoic acid

EC50

Daphnia - Daphnia

6.3 mg/l [48 hours]

-

LC50

Fish

24 mg/l [96 hours]

Phosphoric acid, C11-14-isoalkyl esters, C13-rich

NOEC

Algae - Algae

110 mg/l

-

EC50

Daphnia

0.0088 mg/l [48 hours]

pyridine-2-thiol 1-oxide, sodium salt

EC50

Algae

0.0012 mg/l [72 hours]

-

EC50

Daphnia

0.093 mg/l [48 hours]

2-n-butyl-benzo[d]isothiazol-3-one

EC50

Algae

-

12. Ecological information

- 0.45 mg/l [72 hours]
LC50
 Fish
 0.15 mg/l [96 hours]

Conclusion/Summary [Product] : Not available.

Persistence and degradability

Not available.

Conclusion/Summary [Product] : Not available.

Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
2,2',2''-nitrilotriethanol	-1	<3.9	Low
2-aminoethanol	-1.31	-	Low
neodecanoic acid	2.1	<225	Low
dodecanedioic acid	3.2	-	Low

Mobility in soil

Soil/Water partition coefficient : Not available.

Hazardous to the ozone layer

Not applicable.

Other adverse effects

No known significant effects or critical hazards.

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.

14. Transport information

	UN	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-

14. Transport information

Transport hazard class(es)	-	-	-
Packing group	-	-	-
Environmental hazards	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.

15. Regulatory information

Fire Service Law

Class	Category/ Product name
Category IV	Material that contains: Class II petroleums Material that contains: Class III petroleums Material that contains: Class III petroleums (Water soluble) Material that contains: Class IV petroleums

Industrial Safety and Health Act

Not applicable.

Substance(s) requiring labelling

Ingredient name	%	Status	Reference number
-	≥10 - ≤25	Listed	581
Triethanolamine	≤10	Listed	1335
2-Aminoethanol	≤10	Listed	75

Chemicals requiring notification

Ingredient name	%	Status	Reference number
-	≥10 - ≤25	Listed	581
Triethanolamine	≤10	Listed	1335
2-Aminoethanol	≤10	Listed	75

Chemical substances that cause skin disorders, etc. and other chemical substances that must be handled with impermeable protective equipment etc. based on special chemical regulations. (Article 594-2 Paragraph 1 of Ordinance on ISH)

None of the components are listed.

Corrosive liquid : Not listed

ISHL Enforcement Order : Inflammable

Appendix 1 - Dangerous Substances

Pollutant Release and Transfer Registers (PRTR)

15. Regulatory information

Ingredient name	%	Date of revision	Class	Reference number
2-Aminoethanol	5.643	4/1/2023	Class 1	20

16. Other information

History

Date of printing	: 6/20/2025
Date of revision	: 6/20/2025
Date of previous issue	: No previous validation
Version	: 1
Prepared by	: Product Stewardship Blaser Swissslube AG

Key to abbreviations

ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
N/A = Not available
SGG = Segregation Group
UN = United Nations

Procedure used to derive the classification

Classification	Justification
SKIN IRRITATION - Category 2	Expert judgment
EYE IRRITATION - Category 2A	Expert judgment
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3	Calculation method
HAZARDOUS TO THE AQUATIC ENVIRONMENT - CHRONIC HAZARD - 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).

References

: Not available.

Indicates information that has changed from previously issued version.

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