

SAFETY DATA SHEET

Blasocut BC 40 LF SW

1. Product and company identification

Product name : Blasocut BC 40 LF SW
Product code : 01401-02
Date of issue/ Date of revision : 6/20/2025
Version : 1.04

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.

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

Supplier's details : Blaser Swissslube Japan Co.Ltd
BPR Place Hisaya Odori 10F,
3-20-3 Marunouchi Naka-ku 460-0002 Nagoya Aichi
Tel: +81 52-750-7560
E-Mail: info-japan@blaser.com

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

Emergency telephone number (with hours of operation) : 0120 015 230 (24時間/7日)

2. Hazards identification

GHS Classification : EYE IRRITATION - Category 2A

GHS label elements

Hazard pictograms

:



Signal word : Warning

Hazard statements : H319 - Causes serious eye irritation.

Precautionary statements

General : Not applicable.

Prevention : P280 - Wear eye or face protection.
P264 - Wash thoroughly after handling.

2. Hazards identification

- Response** : 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** : Not applicable.
- Disposal** : Not applicable.

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	≥30 - ≤50
Sulfonic acids, petroleum, sodium salts	CAS: 68608-26-4	8-424; 9-1732; 9-1780	≤10
1-phenoxypropan-2-ol	CAS: 770-35-4	7-78	≤10
Poly(oxy-1,2-ethanediyl), α-[(9Z)-2-[(1-oxo-9-octadecen-1-yl)amino]ethyl]-ω-hydroxy-	CAS: 26027-37-2	7-1381	≤5.0
2,2',2''-nitrilotriethanol	CAS: 102-71-6	2-308; 2-353	≤3.0
Poly(oxy-1,2-ethanediyl), α-(carboxymethyl)-ω-[(9Z)-9-octadecen-1-yloxy]-	CAS: -	2-3573	<3.0
2-aminobutan-1-ol	CAS: 96-20-8	2-316	<1.0
2-aminoethanol	CAS: 141-43-5	2-301	<1.0
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 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. 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. Get medical attention if symptoms occur. 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.

4. First aid measures

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.

Over-exposure signs/symptoms

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. 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.

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).

6. Accidental release measures

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. 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.

Storage

- Conditions for safe storage** : Store between the following temperatures: -70 to 40°C (-94 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. 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** : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

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.

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) .
- 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** : Brown.
- Odor** : Agreeable.
- pH** : 8.5 to 9.2 [Conc. (% w/w): 5%]
- Melting point/freezing point** : Not available.
- Softening point** : Not available.
- Pour point** : 41°C
- Boiling point or initial boiling point and boiling range** : Not available.
- Flash point** : Open cup: 160°C
- 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** : 0.976 g/cm³ [20°C]
- Solubility in water** : Not available.
- Miscible with water** : No.
- Partition coefficient: n-octanol/water** : Not applicable.
- Auto-ignition temperature** : Not available.
- Decomposition temperature** : Not available.
- Viscosity** : Kinematic (40°C): 72 mm²/s (72 cSt)
- Particle characteristics**
- 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	Result
Distillates (petroleum), hydrotreated heavy naphthenic, baseoil - unspecified	Rat - Oral - LD50 >5000 mg/kg
-	Rabbit - Dermal - LD50 >5000 mg/kg
Sulfonic acids, petroleum, sodium salts	Rat - Oral - LD50 >5 g/kg
-	Toxic effects: Gross Metabolite Changes - Weight loss or decreased weight gain
-	Rabbit - Dermal - LD50 >5000 mg/kg
1-phenoxypropan-2-ol	Rat - Oral - LD50 2830 mg/kg
-	Rat - Dermal - LD50 >2000 mg/kg
-	Rat - Inhalation - LC50 Dusts and mists >5 mg/l [4 hours]
2,2',2''-nitrilotriethanol	Rabbit - Dermal - LD50 >2000 mg/kg
-	Rat - Oral - LD50 6400 mg/kg
Poly(oxy-1,2-ethanediyl), α-(carboxymethyl)-ω-[(9Z)-9-octadecen-1-yloxy]-	Rat - Oral - LD50 >2000 mg/kg
-	Rabbit - Dermal - LD50 >2000 mg/kg
2-aminoethanol	Rat - Oral - LD50 1720 mg/kg
-	Rabbit - Dermal - LD50 2504 mg/kg
2-n-butyl-benzo[d]isothiazol-3-one	Rat - Dermal - LD50 >2000 mg/kg
-	Rat - Oral - LD50 4267 to 4732 mg/kg

Acute toxicity estimates

11. Toxicological information

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
Blasocut BC 40 LF SW	>2000	>2000	N/A	N/A	N/A
1-phenoxypropan-2-ol	2830	2500	N/A	N/A	N/A
2,2',2''-nitrilotriethanol	6400	2500	N/A	N/A	N/A
Poly(oxy-1,2-ethanediyl), α-(carboxymethyl)-ω-[(9Z)-9-octadecen-1-yloxy]-	2500	2500	N/A	N/A	N/A
2-aminobutan-1-ol	500	N/A	N/A	N/A	N/A
2-aminoethanol	1720	1100	N/A	11	N/A
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	Result
2-aminoethanol	Rabbit - Skin - Moderate irritant Amount/concentration applied: 505 mg

Conclusion/Summary [Product] : Not available.

Serious eye damage/eye irritation

Product/ingredient name	Result
2-aminoethanol	Rabbit - Eyes - Severe irritant Amount/concentration applied: 250 ug

Conclusion/Summary [Product] : Not available.

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.

11. Toxicological information

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.

12. Ecological information

Ecotoxicity

Product/ingredient name

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

1-phenoxypropan-2-ol

-

-

2,2',2''-nitrilotriethanol

2-aminobutan-1-ol

-

2-aminoethanol

-

-

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

Result

EC50

Fish

>1000 mg/l [96 hours]

LC50

Daphnia

370 mg/l [48 hours]

EC50

Algae

>100 mg/l [96 hours]

EC50

Fish

220 to 460 mg/l [96 hours]

Chronic - NOEC - Fresh water

Daphnia - Water flea - *Daphnia magna*

16 mg/l [21 days]

Effect: Behavior

LC50

Fish - Goldfish

270 mg/l [4 days]

NOEC

Algae

0.11 mg/l [4 days]

Acute - LC50 - Fresh water

Fish - Bluegill - *Lepomis macrochirus*

Size: 40 to 50 mm

329160 µg/l [96 hours]

Effect: Mortality

Chronic - NOEC

Fish

1.2 mg/l [30 days]

Chronic - NOEC

Daphnia

0.85 mg/l [21 days]

EC50

Daphnia

12. Ecological information

-	0.093 mg/l [48 hours] EC50 Algae
-	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.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
2-aminobutan-1-ol	-	93%; <28 day(s)	Readily

Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
2-phenoxypropan-2-ol	1.41	-	Low
2,2',2''-nitriлотriethanol	-1	<3.9	Low
2-aminobutan-1-ol	-0.45	-	Low
2-aminoethanol	-1.31	-	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	-	-	-
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	Class III petroleum

Industrial Safety and Health Act

Not applicable.

Substance(s) requiring labelling

Ingredient name	%	Status	Reference number
1-phenoxypropan-2-ol	≥30 - ≤50	Listed	581
Triethanolamine	≤10	Listed	1694
	≤3.0	Listed	1335

Chemicals requiring notification

Ingredient name	%	Status	Reference number
1-phenoxypropan-2-ol	≥30 - ≤50	Listed	581
Triethanolamine	≤10	Listed	1694
	≤3.0	Listed	1335
2-Aminoethanol	≤1.0	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

15. Regulatory information

ISHL Enforcement Order : Not applicable.

Appendix 1 - Dangerous Substances

Pollutant Release and Transfer Registers (PRTR)

JSOH Carcinogen : Group 2B

16. Other information

History

Date of printing : 6/20/2025

Date of revision : 6/20/2025

Date of previous issue : 6/13/2024

Version : 1.04

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
EYE IRRITATION - Category 2A	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.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.
Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.