

Safety Data Sheet

acc. to 29 CFR 1910.1200 (OSHA Hazcom 2012)

Issued on 03/23/2016

Edition number 2

Reviewed on 03/23/2016

1 Identification

Product identifier

Trade name: Blasocut® BC 20 SW

Article number: 01200-66

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

No further relevant information available.

Application of the substance / the preparation:

For industrial use only

Metalworking fluid concentrate

Details of the supplier of the safety data sheet

Manufacturer / Supplier:

BLASER SWISSLUBE, Inc.

31 Hatfield Lane

Goshen, NY 10924

USA

Phone: +1 (0) 845 294 32 00

Fax : +1 (0) 845 294 31 02

Mailto: mailboxusa@blaser.com

Information department:

Product Safety Department

E-mail: reach@blaser.com

Emergency telephone number:

Within USA and Canada : 1-800-424-9300

Outside USA and Canada: +1-703-527-3887 (collect calls accepted)

2 Hazard(s) identification

Classification of the substance or mixture

Causes serious eye irritation.

Label elements

GHS label elements The product is classified and labeled according to 29 CFR 1910.1200 (OSHA Hazcom 2012).

Hazard pictograms



GHS07

Signal word Warning

Hazard statements

H319 Causes serious eye irritation.

Precautionary statements

P280 Wear eye protection / face protection.

P264 Wash thoroughly after handling.

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/attention.

Other hazards None

3 Composition/information on ingredients

Chemical characterization: Mixtures

Description: Mixture of mineral oils, emulsifiers, stabilizers, long chained chlorinated paraffins (> C₁₈) and inhibitors.

Declarable components:

CAS no.

64742-52-5	Mineral oil, severely hydrotreated, naphthenic	>50-<80%
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(Contd. on page 2)

USA

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Trade name: Blasocut® BC 20 SW

(Contd. of page 1)

770-35-4	1-Phenoxypropan-2-ol	>5.0-9.9%
68608-26-4	Sodium petroleum sulfonate	>1.0-6.9%
	Dicyclohexylamine*	< 2.00%
	Carboxylic acids, alkali salts*	< 2.00%
	Carboxylic acids, neutralized with alkanolamines*	< 2.00%

Additional information:

* Neutralization product: equilibrium of ion pairs.

The specific chemical identity and/or exact percentage concentration of proprietary components is withheld as a trade secret.

4 First-aid measures**Description of first aid measures****After skin contact:** Generally the product does not irritate the skin.**After eye contact:** Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.**After swallowing:** If symptoms persist consult doctor.**Information for doctor:****Most important symptoms and effects, both acute and delayed** No further relevant information available.**Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

5 Fire-fighting measures**Extinguishing media****Suitable extinguishing agents:** CO₂, extinguishing powder or water spray. Fight larger fires with water spray.**For safety reasons unsuitable extinguishing agents:** Water with full jet**Special hazards arising from the substance or mixture** No further relevant information available.**Advice for firefighters****Protective equipment:** The use of SCBA is recommended.**Additional information** Cool endangered receptacles with water spray.**6 Accidental release measures****Personal precautions, protective equipment and emergency procedures** Not required.**Environmental precautions:** Do not allow to enter sewers/ surface or ground water.**Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage**Handling:****Precautions for safe handling**

The product has been classified and marked in accordance with directives on hazardous materials.

Observe the general safety regulations when handling chemicals.

Information about protection against explosions and fires: No special measures required.**Conditions for safe storage, including any incompatibilities****Storage:****Requirements to be met by storerooms and receptacles:** Store only in the original receptacle.

(Contd. on page 3)

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Edition number 2

Reviewed on 03/23/2016

Trade name: Blasocut® BC 20 SW

(Contd. of page 2)

Information about storage in one common storage facility:

Do not store together with oxidizing and acidic materials.

Further information about storage conditions:

Protect from heat and direct sunlight.

Optimal storage temperature between -40°F and +104°F

Duration of Storage: In closed, original container, at least 24 months.

Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

Additional information about design of technical systems: No further data; see item 7.

Control parameters
Components with limit values at the workplace:
NIOSH Recommended exposure limit for Metalworking fluids: 0.5 mg/m³ (particulate)
64742-52-5 Mineral oil, severely hydrotreated, naphthenic (>50-<80%)
ACGIH TLV (US) Long-term value: 5 mg/m³OSHA PEL (US) Long-term value: 5 mg/m³
Additional information: The lists that were valid during the creation were used as basis.

Exposure controls
Personal protective equipment:
General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes.

Respiratory Protection: Not required.

Protection of hands:


Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves (recommended): Suitable protective gloves: Nitrile gloves, minimum thickness of 0.3 mm.

Breakthrough time of glove material:

The exact breakthrough time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection (recommended):

Eye protector with side protection (framed eyeglasses) ANSI Z87.1 – 2010

Use of tight fitting goggles

Body protection (recommended): Protective work clothing

9 Physical and chemical properties

Information on basic physical and chemical properties
General Information
Appearance:

Form:	Liquid
Color:	Brown
Odor:	like almonds
Odor threshold:	Not determined.

(Contd. on page 4)

USA

Safety Data Sheet

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Edition number 2

Reviewed on 03/23/2016

Trade name: Blasocut® BC 20 SW

(Contd. of page 3)

pH-value:	8.5 - 9.2 @ 5% in H ₂ O (DIN 51369 / ASTM D1287)
Change in condition:	
Melting point/Melting range:	Not applicable
Boiling point/Boiling range:	>300 °C (>572 °F) (DIN 51751 / ASTM D86)
Flash point:	>130 °C (>266 °F) (ISO 2592 / ASTM D92)
Evaporation rate	Not determined.
Flammability (solid, gaseous):	Not applicable.
Explosion limits (@1013 mbar):	general values for mineral oil, therefore not product specific
Lower:	0.6 Vol %
Upper:	6.5 Vol %
Oxidizing properties	Not applicable.
Vapor pressure:	Not determined.
Vapor density	Not applicable.
Relative density:	0.96 @ 68°F (20 °C) (DIN 51757 / ASTM D1217)
Evaporation rate	Not determined.
Solubility in / Miscibility with Water:	Emulsifiable.
Partition coefficient (n-octanol/water):	Not determined.
Auto-ignition temperature:	Product is not selfigniting.
Decomposition temperature:	Not determined.
Viscosity	
Dynamic:	Not determined.
Kinematic at 40 °C (104 °F):	54 mm ² /s (ISO 3104 / ASTM D445)
VOC content	182 g/l (ASTM E1868-10); Concentrate in the packaging as sold. 27.3 g/l (ASTM E1868-10) @ Maximum concentration 15%
Other information:	none

10 Stability and reactivity

Reactivity None known if used as directed.

Chemical stability Stable under recommended storage conditions.

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

Possibility of hazardous reactions Reacts with strong acids and oxidizing agents.

Conditions to avoid No further relevant information available.

Incompatible materials: No further relevant information available.

**Hazardous decomposition products
(in case of fire or oxidation):**

Carbon monoxide and carbon dioxide

Hydrogen chloride (HCl)

Chlorine compounds

11 Toxicological information

Information on toxicological effects

Acute toxicity:

LD/LC50 values that are relevant for classification:

> 2000 - < 5000 mg / kg (oral, rat)

> 5,100 mg/m³ 4h (inhalation, rat)

* pure substance

(Contd. on page 5)

USA

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Edition number 2

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Trade name: Blasocut® BC 20 SW

(Contd. of page 4)

ATE (Acute Toxicity Estimates)

Oral	LD50	6746 mg/kg (rat)
Dermal	LD50	5955 mg/kg
Inhalative	LD50	70 mg/L (rat)

Dicyclohexylamine*

Oral	LD50	200 mg/kg (rat)
Dermal	LD50	200-316 mg/kg (rabbit)
Inhalative	LD50	> 1.4 mg/L (rat)

Primary irritant effect:**on the skin:** No irritant effect.**on the eye:** Irritating effect.**Sensitization:** No sensitizing effects known.**Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:
Irritant

Carcinogenic categories**IARC (International Agency for Research on Cancer)**

None of the ingredients is listed in groups 1, 2A, or 2B.

NTP (National Toxicology Program)

None of the ingredients are listed.

12 Ecological information

Toxicity**Aquatic toxicity:****Dicyclohexylamine***

EC50/48h	201 mg/L (Bak)
	62 mg/L (Brachydanio rerio)
	8 mg/L (Daphnia magna)
EC50/72h	0.38 mg/L (Desmodesmus subspicatus)

Persistence and degradability No further relevant information available.**Behavior in environmental systems:****Bioaccumulative potential** No further relevant information available.**Mobility in soil** No further relevant information available.**Additional ecological information:****General notes:**

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

Results of PBT and vPvB assessment**PBT:** Not applicable.**vPvB:** Not applicable.**Other adverse effects** No further relevant information available.

13 Disposal considerations

Waste treatment methods**Recommendation:**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

(Contd. on page 6)

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Edition number 2

Reviewed on 03/23/2016

Trade name: Blasocut® BC 20 SW

(Contd. of page 5)

Used containers**Recommendation:** Disposal must be made according to official regulations.

14 Transport information

UN-Number

DOT, IMDG, IATA

not applicable

DOT, IMDG, IATA

not applicable

DOT, IMDG, IATA

Hazard Classification:

not applicable

DOT, IMDG, IATA

not applicable

Environmental hazards**Marine pollutant (according to IMDG):** No**Special precautions for user**

Not applicable.

Transport/Additional information:

Not hazardous according to the above specifications.

IATA

IATA Dangerous Goods Regulation (DGR) 56th Edition 2015

UN "Model Regulation":

not applicable

15 Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture:**SARA (Superfund Amendments and Reauthorization)****Section 355 (extremely hazardous substances):**

None of the ingredients are listed.

Section 313 (Specific toxic chemical listings):

This product does not contain a chemical that are listed in Section 313.

TSCA (Toxic Substances Control Act) (Substances not listed.):

All ingredients are listed on the U.S. TSCA inventory or exempt from premanufacture notice requirements.

California Proposition 65**Chemicals known to cause cancer:**

None of the ingredients are listed.

Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed.

Chemicals known to cause reproductive toxicity for males:

None of the ingredients are listed.

Chemicals known to cause developmental toxicity:

64-17-5 | ethanol

<0.10%

Carcinogenic categories:**EPA (Environmental Protection Agency)**

None of the ingredients are listed.

NIOSH-Carcinogen list

None of the ingredients are listed.

California SCAQMD Rule 1144:Category: Metalworking Fluid – Metal Removal – General. Recordkeeping requirement: Super Compliant.
(< 50 g/L VOC @ max. use concentration)

(Contd. on page 7)

Safety Data Sheet

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Edition number 2

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Trade name: Blasocut® BC 20 SW
GHS label elements GHS label elements are issued under section 2.

(Contd. of page 6)

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

H.R.2420:
RoHS:

This product fulfill the H.R.2420 requirements in that the EDEE Act regulated materials are absent or their concentrations are significantly below regulatory thresholds.

IP346:

The mineral oil used in this product passes IP346 for DMSO extractable PAH's (Polycyclic aromatic hydrocarbons).

NFPA ratings (scale 0-4)


Health = 1

Fire = 1

Reactivity = 0

HMIS ratings (0-4)


Health = 1

Fire = 1

Reactivity = 0

Department issuing SDS: Product Stewardship

Editor's notice:

The above mentioned data correspond to our present state of knowledge and experience. The safety data sheet serves as description of the products in regard to necessary safety measures. The indications have not the meaning of guarantees on properties.

Date of preparation / last revision 03/23/2016 / 1

Abbreviations and acronyms:

ICAO: International Civil Aviation Organisation

RoHS: Restriction of Hazardous Substances

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

ACGIH: American Conference of Governmental Industrial Hygienists

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

ISO: International Organisation for Standardisation

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

DMSO: Dimethyl sulphoxide extract

IP 346: Institute of Petroleum and related for testing methods for petroleum and fuel products.

PBT: Persistent, Bioaccumulative and Toxic chemicals

vPvB: very Persistent and very Bioaccumulative chemicals

NIOSH: National Institute for Occupational Safety and Health

OSHA: Occupational Safety and Health Administration

Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A

*** Data compared to the previous version altered.**

The asterisk (*) on the left side indicate the respective changes from the previous version.