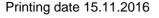
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#### **1** Identification

- · Product identifier
- · Trade name: Blasorun 5
- · Article number: 29185-01
- 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 System cleaner
- $\cdot$  Details of the supplier of the safety data sheet
- Manufacturer / Supplier: BLASER SWISSLUBE AG Winterseistrasse 22 CH-3415 Hasle-Rüegsau Switzerland Tel.: +41 (0)34 460 01 01 Fax: +41 (0)34 460 01 00 E-mail: blaser@blaser.com
- Further information obtainable from: Product Safety Department E-mail: reach@blaser.com
- Emergency telephone number: For advice on chemical emergencies, spillages, fires or exposures: +65 3158 1074 (24h/7d)

### 2 Hazards identification

# · Classification of the substance or mixture:

Skin Corr. 1B H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.

· Label elements

- · GHS label elements The product is classified and labelled according to the Globally Harmonised System (GHS).
- · Hazard pictograms



- · Signal word Danger
- Hazard-determining components of labelling: free alkanolamines\*
- Hazard statements

H314 Causes severe skin burns and eye damage.

· Precautionary statements

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

- P310 Immediately call a POISON CENTER/doctor.
- P405 Store locked up.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
- · Other hazards None

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# · Results of PBT and vPvB assessment

- **PBT:** Not applicable.
- · vPvB: Not applicable.

### 3 Composition/information on ingredients

#### · Chemical characterisation: Mixtures

· Description:

Mixture of substances listed below with nonhazardous additions. Mixture of nitrogen-containing organic acids (salts) and inhibitors.

Confidential	Carboxylic acids, neutralized with alkanolamines*	>20-<30%
	Skin Irrit. 2, H315; Eye Irrit. 2A, H319	
Proprietary	free alkanolamines*	>5.0-<15%
	Skin Corr. 1B, H314; Acute Tox. 4, H312; Flam. Liq. 4, H227	
Proprietary	Benzotriazole*	>1.0-2.9%
	Aquatic Chronic 2, H411; Acute Tox. 4, H302; Skin Irrit. 2, H315	
Proprietary	Dicyclohexylamine*	< 1.00%
	Acute Tox. 3, H301; Acute Tox. 3, H311; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Irrit. 2, H315; Eye Irrit. 2A, H319	
CAS: 4299-07-4 ELINCS: 420-590-7	N-Butyl-1,2-benzisothiazolin-3-one	< 0.25%
	Skin Corr. 1B, H314; Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=1); Skin Sens. 1, H317	
CAS: 31075-24-8	Poly quaternary ammonium chloride	< 0.10%
Polymer	Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=1); Acute Tox. 4, H302; Acute Tox. 4, H332	

#### · Additional information:

\* Neutralisation product: Equilibrium of Ionic Pairs according to REACH Annex V, 4. Not mentioned CAS-, EINECS- or registration numbers are to be regarded as Proprietary/Confidential. For the wording of the listed hazard phrases refer to section 16.

### 4 First-aid measures

- $\cdot$  Description of first aid measures
- · General information: Immediately remove any clothing soiled by the product.
- · After inhalation:

In case of unconsciousness place patient stably in side position for transportation. Not applicable, as the concentrate is not volatile.

- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- · After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- After swallowing: Drink plenty of water and provide fresh air. Call for a doctor immediately.
- · 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: CO<sub>2</sub>, 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.

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- · Advice for firefighters
- · Protective equipment: No special measures required.
- · Additional information Cool endangered receptacles with water spray.

### 6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.
- · Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- $\cdot$  Methods and material for containment and cleaning up:

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

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation. • 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 EU Directives / Ordinance on Hazardous Materials. Observe the general safety regulations when handling chemicals.

- · Information about fire and explosion protection: 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.
- Information about storage in one common storage facility: Do not store together with oxidising and acidic materials.
- Further information about storage conditions: Protect from heat and direct sunlight.
   Optimal storage temperature between 0 °C and 40 °C.
   Minimum shelf life: In closed original container, at least 12 months.
   Keep container tightly sealed.
- Specific end use(s) No further relevant information available.

### 8 Exposure controls/personal protection

- Additional information about design of technical facilities: No further data; see item 7.
- · Control parameters
- Ingredients with limit values at the workplace: General indication value for metalworking fluids (without obligation): 10 mg/m<sup>3</sup>.
- · Additional information: The lists valid during the making 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. Avoid contact with the eyes and skin.
- Respiratory protection: Not required.

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#### · 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

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the resultant standard EN 374.

The selection of the suitable gloves does not only depend on the material, but also on further marks of guality and varies from manufacturer to manufacturer.

The break through, among others, depending on material density and the type of glove and therefore must be determined in each individual case.

Gloves must be inspected prior to use. Replace when worn!

Impervious gloves: nitrile rubber, minimum thickness of 0.3 mm.

· Penetration time of glove material

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

- Eye protection: Eye protector with side protection (framed eyeglasses) EN 166.
- · Body protection: Protective work clothing

### 9 Physical and chemical properties

Information on basic physical and General Information		
Appearance:		
Form:	Fluid	
Colour:	Yellowish	
Odour:	Mild	
Odour threshold:	Not determined.	
pH-value at 20 °C:	9.9 (DIN 19268 / ASTM E70)	
-	9.5-9.9 @ 50 g/l H₂O (DIN 51369 / ASTM D1287)	
Change in condition:		
Melting point/Melting range:	Not applicable	
Boiling point/Boiling range:	>100 °C (DIN 51751 / ASTM D86)	
Drip point:	Not applicable	
Pour point:	< 0 °C (ISO 3016 / ASTM D97)	
Flash point:	>130 °C (ISO 2592 / ASTM D92)	
	Not applicable (contains water).	
Flammability (solid, gaseous):	Not applicable.	
Ignition temperature:	335 °C (DIN 51794 / ASTM E659)	
Decomposition temperature:	Not determined.	
Self-igniting:	Product is not selfigniting.	
Danger of explosion:	Product does not present an explosion hazard.	
Explosion limits (@1013 mbar):		
Lower:	Not determined.	
Upper:	Not determined.	
Oxidising properties	Not applicable.	
Density at 20 °C:	1.05 g/cm³ (DIN 51757 / ASTM D1217)	
Vapour density	Not applicable.	

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Not determined.
Soluble.
ater): Not determined.
7.5 mm²/s (ISO 3104 / ASTM D445)
4.2 %
safety relevant data, which has to be considered as product specifications

# 10 Stability and reactivity

· Reactivity None known if used as directed.

- Chemical stability Stable under recommended storage conditions.
- · Possibility of hazardous reactions Reacts with strong acids and oxidising agents.
- · Conditions to avoid No further relevant information available.
- Incompatible materials: No further relevant information available.
- Hazardous decomposition products: Carbon monoxide and carbon dioxide Nitrogen oxides (NOx)

### 11 Toxicological information

# Information on toxicological effects

- · Acute toxicity
- $\cdot$  LD/LC50 values relevant for classification:

\* pure substance

### **ATE (Acute Toxicity Estimates)**

-			
		5836 mg/kg	
		6456 mg/kg (rabbit)	
Inhalative	LD50	166667 mg/L (rat)	

free alka	nolami	nes*
Oral	LD50	2098 mg/kg (rat)
Dermal	LD50	1640 mg/kg (rabbit)
Dicycloh	exylam	ine*
Oral	LD50	200 mg/kg (rat)
Dermal	LD50	200-316 mg/kg (rabbit)
4299-07-	4 N-But	yl-1,2-benzisothiazolin-3-one
Oral	LD50	>2000 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rat)
· Primary	irritant	effect:

• Skin corrosion/irritation Strong caustic effect on skin and mucous membranes.

# · Serious eye damage/irritation

Strong caustic effect.

Strong irritant with the danger of severe eye injury.

• Respiratory or skin sensitisation No sensitising effects known.

### Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version: Corrosive

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Irritant

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

- $\cdot$  Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- Reproductive toxicity Based on available data, the classification criteria are not met.
- · STOT-single exposure Based on available data, the classification criteria are not met.
- · STOT-repeated exposure Based on available data, the classification criteria are not met.
- Aspiration hazard Based on available data, the classification criteria are not met.

# 12 Ecological information

#### · Toxicity

Aquatic toxicity:

# \* pure substance

Benzotriaz	ole*
LC50/96h	180 mg/l (Brachydanio rerio)
NOEC/21d	0.97 mg/l (Daphnia galeata)
NOEC/10d	3.94 mg/l (Lemna minor)
EC50/48h	63-91 mg/L (Daphnia magna)
Dicyclohex	vylamine*
LC50/96h	62 mg/l (Danio rerio)
	12 mg/l (Oryzias latipes)
EC50/48h	201 mg/L (Bak)
	8 mg/L (Daphnia magna)
4299-07-4 I	N-Butyl-1,2-benzisothiazolin-3-one
EC50/96h	0.15 mg/L (Poecilia reticulata)
	0.2 mg/L (Pseudomonas putida)
EC50/48h	0.093 mg/L (Daphnia magna)
EC50/72h	0.45 mg/L (Algae) (OECD 201)
Behaviour     Bioaccumu     Mobility in     Additional     General no     Do not allow     Must not re	e and degradability No further relevant information available. in environmental systems: ulative potential No further relevant information available. soil No further relevant information available. ecological information: otes: w product to reach ground water, water course or sewage system. ach sewage water or drainage ditch undiluted or unneutralised.

- · 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 together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packaging:
- Recommendation: Disposal must be made according to official regulations.



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· Recommended cleansing agents: Water, if necessary together with cleansing agents.

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UN-Number	
ADR, ADN, IMDG, IATA	Void
UN proper shipping name ADR, ADN, IMDG, IATA	Void
Transport hazard class(es)	
ADR, ADN, IMDG, IATA Class	Void
Packing group ADR, IMDG, IATA	Void
Environmental hazards: Marine pollutant:	No
Special precautions for user	Not applicable.
Transport in bulk according to Annex II of M the IBC Code	l <b>arpol and</b> Not applicable.
Transport/Additional information:	Not dangerous according to the above specifications.
ΙΑΤΑ	IATA Dangerous Goods Regulation (DGR) 57th Edition 2016
UN "Model Regulation":	Void

# **15 Regulatory information**

 $\cdot$  Safety, health and environmental regulations/legislation specific for the substance or mixture

 $\cdot$  GHS label elements CLP/GHS label elements are issued under section 2.

· National regulations:

The product is subject to be labeled according with the prevailing version of the regulations on hazardous substances.

- · Other regulations, limitations and prohibitive regulations
- Substances of very high concern (SVHC) according to REACH, Article 57
  This preparation does not contain any SVHC ("Substances of Very High Concern")
- · Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

### 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.

 $\cdot$  Regulations / approvals / listings:

Information on REACH registration numbers in section 3: In case of lack of REACH registration numbers on mentioned hazardous substances at the end of 2010, then these numbers will be known and indicated only in section 3 within its tonnage band for registration, after the end of 2013, respectively by the end of 2018, or are exempt from the REACH regulation (e.g. polymers).

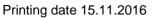
· RoHS:

The product is compliant with European Directives 2011/65/EC, 2002/95/EC, WEEE 2002/96/EC, 2003/11/EC, 2005/53/EC and RoHS.

The following substances ARE NOT contained:

Pentabromodiphenylether, Octabromodiphenylether, polybrominated diphenylether (PDBE) and / or polybrominated

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compounds.	Contd. of pag) -+ead or it's compounds, cadmium or it's compounds, mercury or it's compounds, chromium Cr <sup>e</sup>
oompoundo.	
· Relevant phrases	j
H227 Combustible	
H301 Toxic if swa	lowed.
H302 Harmful if sv	vallowed.
H311 Toxic in con	tact with skin.
H312 Harmful in c	ontact with skin.
	ere skin burns and eye damage.
H315 Causes skin	
	an allergic skin reaction.
H319 Causes seri	
H332 Harmful if in	
H400 Very toxic to	
	aquatic life with long lasting effects.
	atic life with long lasting effects.
	ng SDS: Product Stewardship
· Contact: Dr. Mosi	mann + Mr. Frei
· Editor's notice:	
The above mentio	ned data correspond to our present state of knowledge and experience. The safety data sheet
	ion of the products in regard to necessary safety measures. The indications have not the meanin
of guarantees on	
<ul> <li>Abbreviations an RoHS: Restriction of F</li> </ul>	a acronyms:
	n sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage
Dangerous Goods by I	
RID: Règlement intern	ational concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the Internatio
Transport of Dangerou	s Goods by Rail) aritime Code for Dangerous Goods
IATA: International Air	
	ised System of Classification and Labelling of Chemicals
EINECS: European Inv	ventory of Existing Commercial Chemical Substances
	t of Notified Chemical Substances
	cts Service (division of the American Chemical Society) Compounds (USA, EU)
	anisation for Standardisation
DNEL: Derived No-Effe	ect Level (REACH)
	iffect Concentration (REACH)
LC50: Lethal concentra LD50: Lethal dose, 50	
PBT: Persistent, Bioad	
TLV: Threshold Limit \	
PEL: Permissible Expo	
REL: Recommended E ATE: Acute Toxicity Es	
Flam. Liq. 4: Flammab	
Acute Tox. 3: Acute to	xicity – Category 3
Acute Tox. 4: Acute to	
	rrosion/irritation – Category 1B sion/irritation – Category 2
	ye damage/eye irritation – Category 2
	ye damage/eye irritation – Category 2A
Eye Dam. 1: Serious e Eye Irrit. 2A: Serious e	
Eye Dam. 1: Serious e Eye Irrit. 2A: Serious e Skin Sens. 1: Skin ser	
Eye Dam. 1: Serious e Eye Irrit. 2A: Serious e Skin Sens. 1: Skin ser Aquatic Acute 1: Haza	rdous to the aquatic environment - acute aquatic hazard – Category 1
Eye Dam. 1: Serious e Eye Irrit. 2A: Serious e Skin Sens. 1: Skin ser Aquatic Acute 1: Haza Aquatic Chronic 1: Haza	rdous to the aquatic environment - acute aquatic hazard – Category 1 zardous to the aquatic environment - long-term aquatic hazard – Category 1
Eye Dam. 1: Serious e Eye Irrit. 2A: Serious e Skin Sens. 1: Skin ser Aquatic Acute 1: Haza Aquatic Chronic 1: Haz Aquatic Chronic 2: Haz	rdous to the aquatic environment - acute aquatic hazard – Category 1 zardous to the aquatic environment - long-term aquatic hazard – Category 1 zardous to the aquatic environment - long-term aquatic hazard – Category 2
Eye Dam. 1: Serious e Eye Irrit. 2A: Serious e Skin Sens. 1: Skin ser Aquatic Acute 1: Haza Aquatic Chronic 1: Haz Aquatic Chronic 2: Haz • * Data compared	rdous to the aquatic environment - acute aquatic hazard – Category 1 zardous to the aquatic environment - long-term aquatic hazard – Category 1 zardous to the aquatic environment - long-term aquatic hazard – Category 2 <b>to the previous version altered.</b>
Eye Dam. 1: Serious e Eye Irrit. 2A: Serious e Skin Sens. 1: Skin ser Aquatic Acute 1: Haza Aquatic Chronic 1: Haz Aquatic Chronic 2: Haz • * Data compared	rdous to the aquatic environment - acute aquatic hazard – Category 1 zardous to the aquatic environment - long-term aquatic hazard – Category 1 zardous to the aquatic environment - long-term aquatic hazard – Category 2