

Issued on 10/25/2012

Edition number 1

Reviewed on 10/25/2012

## 1 Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

Trade name: **B-Cool 255**

Article number: 11255

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

#### Application of the substance / the preparation:

For industrial use only

Cooling lubricant / Cutting fluid

### 1.3 Details of the supplier of the safety data sheet

#### Manufacturer/Supplier:

Blaser Swissslube, Inc.  
31 Hatfield Lane  
Goshen, NY 10924  
USA

#### Information department:

Product safety dept.

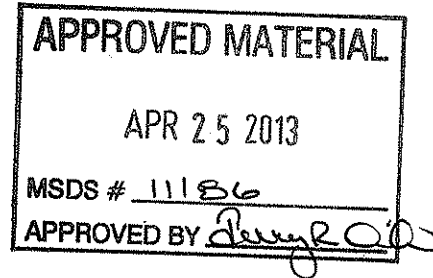
sdb@blaser.com

reach@blaser.com

### 1.4 Emergency telephone number:

Phone USA: (845) 294-3200

Phone Canada: +1 647 274 9706



## 2 Hazards identification

### 2.1 Classification of the substance or mixture

#### Information concerning particular hazards for human and environment:

The product has to be labelled due to the calculation procedure of international guidelines.

#### Classification system:

The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

### 2.2 Label elements

#### Hazard-determining components of labelling:

1,2-benzisothiazol-3(2H)-one

#### Risk phrases:

Irritating to eyes.

May cause sensitisation by skin contact.

#### Safety phrases:

Avoid contact with skin and eyes.

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Wear suitable gloves and eye/face protection.

#### WHMIS-symbols:

D2B - Toxic material causing other toxic effects



#### Classification system:

NFPA ratings (scale 0 - 4)



Health = 1

Fire = 1

Reactivity = 0

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**HMIS-ratings (scale 0 - 4)**

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HEALTH	1	Health = 1
FIRE	1	Fire = 1
REACTIVITY	0	Reactivity = 0

**2.3 Other hazards****Results of PBT and vPvB assessment**

PBT: Not applicable.

vPvB: Not applicable.

**3 Composition/information on ingredients****3.2 Mixtures****Description:** Mixture of mineral oil, emulsifiers, stabilizers and inhibitors**Declarable components:****CAS no.**

64742-52-5	Mineral oil, severely hydrotreated, naphthenic	5.0-15%
26038-87-9	Mixture of boric acid with alcanolamines	5.0-9.9%
9060-53-1	Preparation of carboxylic acid amides- and amine salts	1.0-2.9%
53563-70-5	Ether carboxylate	1.0-2.4%
66204-44-2	Oxazolidine derivative	1.0-2.4%
10043-35-3	boric acid	0.5-1.5%
58249-25-5	1.2-benzisothiazol-3 (2 H)-one, sodium salt	< 0.1%

**4 First aid measures****4.1 Description of first aid measures****After inhalation:** Supply fresh air; consult doctor in case of complaints.**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.**4.2 Most important symptoms and effects, both acute and delayed**

No further relevant information available.

**4.3 Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

**5 Firefighting measures****5.1 Extinguishing media****Suitable extinguishing agents:**CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray.**For safety reasons unsuitable extinguishing agents:** Water with full jet**5.2 Special hazards arising from the substance or mixture** No further relevant information available.**5.3 Advice for firefighters****Protective equipment:** No special measures required.**6 Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures** Not required.**6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.

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**6.3 Methods and material for containment and cleaning up:**

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

**6.4 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****7.1 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.**7.2 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 oxidizing and acidic materials.

Store away from oxidizing agents.

**Further information about storage conditions:**

Keep receptacle tightly sealed.

Protect from heat and direct sunlight.

Storage temperature between 32°F and 104°F

Duration of Storage: In closed, original container, at least 6 months.

**7.3 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.**8.1 Control parameters****Components with limit values at the workplace:**NIOSH Recommended exposure limit for Metalworking fluids: 0.5mg/m<sup>3</sup> (particulate)OSHA 29 CFR 1910.1000 for oil mist in air: 5 mg/m<sup>3</sup>ACGIH: TLV for oil mist in air: 5 mg/m<sup>3</sup>**141-43-5 2-aminoethanol**

EL Short-term value: 6 ppm

Long-term value: 3 ppm

EV Short-term value: 15 mg/m<sup>3</sup>, 6 ppmLong-term value: 7.5 mg/m<sup>3</sup>, 3 ppm**10043-35-3 boric acid (1.0-2.4%)**EL Short-term value: 6 mg/m<sup>3</sup>Long-term value: 2 mg/m<sup>3</sup>EV Short-term value: 6 mg/m<sup>3</sup>Long-term value: 2 mg/m<sup>3</sup>

inorganic, inhalable

**Additional information:** The lists that were valid during the creation were used as basis.**8.2 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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**Material of gloves**

Suitable protective gloves: Nitril gloves, minimum thickness of 0.3 mm, e.g. Ultranitril type 491.  
Corresponds to the standards DIN/EN 374-2 and 374-3.

**Break-trough time of glove material:**

The exact break trough 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

### 9.1 Information on basic physical and chemical properties

#### General Information

##### Appearance:

<b>Form:</b>	Liquid
<b>Color:</b>	Yellow-brown
<b>Odor:</b>	Weak, characteristic

**pH-value:** 8.7 - 9.2 @ in 5% H<sub>2</sub>O (ASTM D1287)

##### Change in condition

<b>Melting point/Melting range:</b>	Not applicable
<b>Boiling point/Boiling range:</b>	> 212°F (> 100°C) ASTM D86
<b>Drip point:</b>	Not applicable
<b>Pour point:</b>	< 32°F (< 0°C) ASTM D97

**Flash point:** 298°F (148°C) ASTM D92

**Ignition temperature:** Not applicable

**Auto igniting:** Product is not selfigniting.

**Danger of explosion:** Product does not present an explosion hazard.

**Density:** 1.014 g/cm<sup>3</sup> @ 68°F (20°C) ASTM D1217

##### Solubility in / Miscibility with

**Water:** Emulsifiable.

##### Viscosity:

**Kinematic:** 16 mm<sup>2</sup>/s (cSt) @ 104°F (40°C) ASTM D445

### 9.2 Other information

safety relevant data, which has to be considered as product specifications.

## 10 Stability and reactivity

### 10.1 Reactivity

### 10.2 Chemical stability

#### Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

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

**10.4 Conditions to avoid** No further relevant information available.

**10.5 Incompatible materials:** No further relevant information available.

#### 10.6 Hazardous decomposition products:

Carbon monoxide and carbon dioxide

Nitrogen oxides (NO<sub>x</sub>)

Formaldehyde

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### 11 Toxicological information

#### 11.1 Information on toxicological effects

##### Acute toxicity:

##### LD/LC50 values that are relevant for classification:

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

> 5,100 mg/m<sup>3</sup> 4h (inhalation, 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.

##### NTP (National Toxicology Program)

None of the ingredients is listed.

### 12 Ecological information

#### 12.1 Toxicity

**Aquatic toxicity:** No further relevant information available.

**12.2 Persistence and degradability** No further relevant information available.

**12.3 Bioaccumulative potential** No further relevant information available.

**12.4 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.

##### 12.5 Results of PBT and vPvB assessment

**PBT:** Not applicable.

**vPvB:** Not applicable.

**12.6 Other adverse effects** No further relevant information available.

### 13 Disposal considerations

#### 13.1 Waste treatment methods

##### Recommendation:

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

##### Uncleaned packagings

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

**Recommended cleansing agent:** Water, if necessary with cleansing agents.

### 14 Transport information

DOT, ADN, IMDG, IATA           not applicable

DOT, ADN, IMDG, IATA  
Class                                   not applicable

#### 14.5 Environmental hazards:

**Marine pollutant:**               No

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Transport/Additional information: Not dangerous according to the above specifications.

**15 Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Sara****Section 355 (extremely hazardous substances):**

None of the ingredients is 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):**

All ingredients are listed.

**California Proposition 65****Listed substances:**

None of the ingredients is listed.

**Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

**Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

**Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

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

None of the ingredients is listed.

**TLV (Threshold Limit Value established by ACGIH)**

10043-35-3 boric acid

A4

**NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

**OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

**Canadian substance listings:****Canadian Domestic Substances List (DSL)**

All ingredients are listed.

**Canadian Non-Domestic Substances List (NDSL):** None of the ingredients are listed as NDSL.**Canadian Ingredient Disclosure list (limit 0.1%)**

None of the ingredients is listed.

**Canadian Ingredient Disclosure list (limit 1%)**

10043-35-3 boric acid

**Canadian Environmental Protection Act (CEPA), Schedule 1:** None of the ingredients is listed.**15.2 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.

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**RoHS:**

This product conforms to the RoHS Directive in that the RoHS 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).

**Department issuing MSDS:** Product Safety Department

**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.

**Abbreviations and acronyms:**

RoHS: Restriction of Hazardous Substances

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

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

NFPA: National Fire Protection Association (USA)

WHMIS: Hazardous Materials Identification System (Canada)

VOC: Volatile Organic Compounds (USA, EU)

ISO: International Organization for Standardization

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

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

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

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