

# Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 03.07.2017


Version number 4

Revision: 03.07.2017

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

- **1.1 Product identifier**
- **Trade name:** **BTC-50 NF**
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
  - Identified use: intended for professional use only!
- **Application of the substance / the mixture**
  - Coolant/ Cutting solution
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
  - Alexander BINZEL
  - Schweißtechnik GmbH & Co.KG
  - Postfach 10 01 53 / D-35331 Giessen
  - Tel.: +49 (0) 6408 / 59-0
  - Fax: +49 (0) 6408 / 59-191
  - Mail: [technischedokumentation@binzel-abicor.com](mailto:technischedokumentation@binzel-abicor.com)
- **Further information obtainable from:**
  - Technical Documentation
- **1.4 Emergency telephone number:**
  - Giftinformationszentrum der Länder Rheinland-Pfalz und Hessen
  - Langenbeckstraße 1; Gebäude 601; 55131 Mainz
  - Tel. Nr.: +49 (0)6131 / 19 24 0
  - Universitätsmedizin der Johannes Gutenberg-Universität Mainz

## SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**
  - STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.
- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**
  - The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms**
  - 
  - GHS08
- **Signal word**
  - Warning
- **Hazard-determining components of labelling:**
  - ethanediol
- **Hazard statements**
  - H373 May cause damage to organs through prolonged or repeated exposure.
- **Precautionary statements**
  - P260 Do not breathe dust/fume/gas/mist/vapours/spray.
  - P314 Get medical advice/attention if you feel unwell.
  - P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:**
  - Not applicable.
- **vPvB:**
  - Not applicable.

## SECTION 3: Composition/information on ingredients

- **3.2 Chemical characterisation: Mixtures**
- **Description:**
  - Mixture: consisting of the following components.
- **Dangerous components:**

CAS: 107-21-1	ethanediol	STOT RE 2, H373; Acute Tox. 4, H302	50-100%
EINECS: 203-473-3			
Index number: 603-027-00-1			
Reg.nr.: 01-2119456816-28			
- **Additional information:**
  - For the wording of the listed hazard phrases refer to section 16.

## SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **General information:**
  - Immediately remove any clothing soiled by the product.
  - Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
  - Do not leave affected persons unattended.
  - Personal protection for the First Aider.
  - Take affected persons out of danger area and lay down.
- **After inhalation:**
  - In case of unconsciousness place patient stably in side position for transportation.
  - Supply fresh air; consult doctor in case of complaints.
- **After skin contact:**
  - Immediately wash with water and soap and rinse thoroughly.
  - Seek medical treatment.
- **After eye contact:**
  - Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
  - Protect unharmed eye.

(Contd. on page 2)

EN

# Safety data sheet

according to 1907/2006/EC, Article 31

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Trade name: **BTC-50 NF**

(Contd. of page 1)

- 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.

## SECTION 5: Firefighting measures

- 5.1 Extinguishing media: CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Use fire extinguishing methods suitable to surrounding conditions.
- Suitable extinguishing agents:
- 5.2 Special hazards arising from the substance or mixture: Formation of toxic gases is possible during heating or in case of fire.
- 5.3 Advice for firefighters: Do not inhale explosion gases or combustion gases.
- Protective equipment:
- Additional information: Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

## SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures: Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation. Avoid contact with skin and eyes.
- 6.2 Environmental precautions: Inform respective authorities in case of seepage into water course or sewage system. Do not allow to enter sewers/ surface or ground water. Prevent from spreading (e.g. by damming-in or oil barriers).
- 6.3 Methods and material for containment and cleaning up: Ensure adequate ventilation. Dispose contaminated material as waste according to item 13. 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.

## SECTION 7: Handling and storage

- 7.1 Precautions for safe handling: Keep receptacles tightly sealed. Store in cool, dry place in tightly closed receptacles. Ensure good ventilation/exhaustion at the workplace.
- Information about fire - and explosion protection: No special measures required.
- 7.2 Conditions for safe storage, including any incompatibilities
- Storage: Store only in the original receptacle.
- Requirements to be met by storerooms and receptacles:
- Information about storage in one common storage facility: Store away from foodstuffs.
- Further information about storage conditions: Recommended storage temperature: 10-30 °C. Store in dry conditions. Keep container tightly sealed.
- 7.3 Specific end use(s): No further relevant information available.

## SECTION 8: Exposure controls/personal protection

- Additional information about design of technical facilities: No further data; see item 7.
- 8.1 Control parameters

### - Ingredients with limit values that require monitoring at the workplace:

#### 107-21-1 ethanediol

WEL	Short-term value: 104** mg/m <sup>3</sup> , 40** ppm
	Long-term value: 10* 52** mg/m <sup>3</sup> , 20** ppm
	Sk *particulate **vapour

- Additional information: The lists valid during the making were used as basis.
- 8.2 Exposure controls
- Personal protective equipment:
- General protective and hygienic measures: The usual precautionary measures are to be adhered to when handling chemicals. Keep away from foodstuffs, beverages and feed.

(Contd. on page 3)

EN

# Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 03.07.2017

Version number 4

Revision: 03.07.2017

Trade name: **BTC-50 NF**

(Contd. of page 2)

**- Respiratory protection:**

Immediately remove all soiled and contaminated clothing  
Wash hands before breaks and at the end of work.  
Avoid contact with the eyes and skin.  
When used properly and under normal conditions, breathing protection is not required.  
Use suitable respiratory protective device in case of insufficient ventilation.  
Filter A/P2

**- Protection of hands:**



Protective gloves

Only use chemical-protective gloves with CE-labelling of category III.  
Check protective gloves prior to each use for their proper condition.  
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation  
After use of gloves apply skin-cleaning agents and skin cosmetics.

**- Material of gloves**

Recommended materials:  
Butyl rubber, BR  
Recommended thickness of the material:  $\geq 0.5$  mm  
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

**- Penetration time of glove material**

The determined penetration times according to EN 374 part III are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.

**- As protection from splashes gloves made of the following materials are suitable:**

Nitrile rubber, NBR  
Recommended thickness of the material:  $\geq 0.1$  mm  
Penetration time (min.):  $<10$

**- Eye protection:**



Tightly sealed goggles

**- Body protection:**

Protective work clothing  
Impervious protective clothing

## SECTION 9: Physical and chemical properties

**- 9.1 Information on basic physical and chemical properties**

**- General Information**

**- Appearance:**

Form: Fluid  
Colour: According to product specification

- Odour: Characteristic

- Odour threshold: Not determined.

- pH-value at 20 °C: 6

**- Change in condition**

Melting point/freezing point: Undetermined.  
Initial boiling point and boiling range: Undetermined.

- Flash point: 111 °C

- Flammability (solid, gas): Not applicable.

**- Ignition temperature:**

Decomposition temperature: Not determined.

- Auto-ignition temperature: Product is not selfigniting.

- Explosive properties: Product does not present an explosion hazard.

**- Explosion limits:**

Lower: Not determined.  
Upper: Not determined.

- Density at 20 °C: 1.07 g/cm<sup>3</sup>

- Relative density: Not determined.

- Vapour density: Not determined.

- Evaporation rate: Not determined.

**- Solubility in / Miscibility with water:**

Not determined.

(Contd. on page 4)

EN

# Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 03.07.2017

Version number 4

Revision: 03.07.2017

Trade name: **BTC-50 NF**

(Contd. of page 3)

- **Partition coefficient: n-octanol/water:** Not determined.
- **Viscosity:**
  - Dynamic:** Not determined.
  - Kinematic:** Not determined.
- **9.2 Other information** No further relevant information available.

## SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

## SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

### - LD/LC50 values relevant for classification:

#### 107-21-1 ethanediol

Oral	LD50	7712 mg/kg (rat)
	LDLo	~1600 mg/kg (human) ((EU))
Dermal	LD50	> 3500 mg/kg (mouse)
		9530 mg/kg (rabbit)
	LC50	> 2.5 mg/l (rat) (6h; as aerosol)

- **Primary irritant effect:**
- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **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** May cause damage to organs through prolonged or repeated exposure.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

## SECTION 12: Ecological information

### - 12.1 Toxicity

#### - Aquatic toxicity:

#### 107-21-1 ethanediol

EC20	> 1995 mg/l (Belebtschlamm) (0,5h; ISO 8192)
EC50	> 10000 mg/l (ALGAE)
	> 100 mg/l (Daphnia magna) (48h; OECD 202)
	6500 - 13000 mg/l (Selenastrum capricornutum) (96h)
NOEC	8590 mg/l (Ceriodaphnia dubia) (7d)
LC50	18000 mg/l (Oncorhynchus mykiss (Regenbogenforelle)) (96h)
	72860 mg/l (Pimephales promelas) (96h; static test)
NOEC	15380 mg/l (Pimephales promelas) (7d)

- **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:** Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

(Contd. on page 5)

EN

# Safety data sheet

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Version number 4

Revision: 03.07.2017

Trade name: **BTC-50 NF**

- 12.6 Other adverse effects

No further relevant information available.

(Contd. of page 4)

## SECTION 13: Disposal considerations

- 13.1 Waste treatment methods

- Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.  
Disposal according to official regulations

- European waste catalogue

15 01 10\* packaging containing residues of or contaminated by hazardous substances

15 01 02 plastic packaging

- Uncleaned packaging:

- Recommendation:

Disposal must be made according to official regulations.

## SECTION 14: Transport information

- 14.1 UN-Number

- ADR, ADN, IMDG, IATA

Void

- 14.2 UN proper shipping name

- ADR, ADN, IMDG, IATA

Void

- 14.3 Transport hazard class(es)

- ADR, ADN, IMDG, IATA

- Class

Void

- 14.4 Packing group

- ADR, IMDG, IATA

Void

- 14.5 Environmental hazards:

- Marine pollutant:

No

- 14.6 Special precautions for user

Not applicable.

- 14.7 Transport in bulk according to Annex II of Marpol and the IBC

Code

Not applicable.

- UN "Model Regulation":

Void

## SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

- Directive 2012/18/EU

- Named dangerous substances - ANNEX I

None of the ingredients is listed.

- REGULATION (EC) No 1907/2006 ANNEX XVII

Conditions of restriction: 3

- National regulations:

- Information about limitation of use:

Employment restrictions concerning juveniles must be observed.  
Employment restrictions concerning pregnant and lactating women must be observed.  
Employment restrictions concerning women of child-bearing age must be observed.

- 15.2 Chemical safety assessment:

A Chemical Safety Assessment has not been carried out.

## SECTION 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.

- Relevant phrases

H302 Harmful if swallowed.  
H373 May cause damage to organs through prolonged or repeated exposure.

- Department issuing SDS:

Technical Documentation

- Contact:

Technical Documentation

- Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)  
ICAO: International Civil Aviation Organisation  
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  
IATA: International Air Transport Association  
GHS: Globally Harmonised System of Classification and Labelling of Chemicals  
EINECS: European Inventory of Existing Commercial Chemical Substances  
ELINCS: European List of Notified Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
PBT: Persistent, Bioaccumulative and Toxic

(Contd. on page 6)

EN

# Safety data sheet

according to 1907/2006/EC, Article 31

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Version number 4

Revision: 03.07.2017

**Trade name: BTC-50 NF**

(Contd. of page 5)

**- Sources**

vPvB: very Persistent and very Bioaccumulative  
Acute Tox. 4: Acute toxicity – Category 4  
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

## Internet:

- [www.echa.com](http://www.echa.com)
- [www.baua.de](http://www.baua.de)
- [www.gestis.itrust.de](http://www.gestis.itrust.de) (IFA: Institute für Occupational Safety and Health of the German Social Accident Insurance)

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

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