

Safety Data Sheet

according to WHS Regulations

Printing date 18.11.2022

Version number 5

Revision: 18.11.2022

1 Identification

- Product identifier
- Trade name: **BTC-20 NF**
- 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
- 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
- Further information obtainable from: Sales company: Binzel Pty. Ltd., 42 Hinkler Rd, Mordialloc, Victoria, 3195, Australia

Responsible Person: Stuart Hammerton

Phone: +61 (0) 39580 6500
e-Mail: Stuart@binzel.com.au
- Emergency telephone number: Poison Information Centre
131 126

2 Hazard(s) Identification

- Classification of the substance or mixture The product is not classified, according to the Globally Harmonised System (GHS).
- Label elements
- GHS label elements Void
- Hazard pictograms Void
- Signal word Void
- Hazard statements
- Precautionary statements
- Other hazards
- Results of PBT and vPvB assessment
- PBT: Not applicable.
- vPvB: Not applicable.

3 Composition and Information on Ingredients

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

- Dangerous components:

107-21-1	ethanediol	25-50%
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- Additional information: For the wording of the listed hazard phrases refer to section 16.

4 First Aid Measures

- Description of first aid measures
- General information: Immediately remove any clothing soiled by the product.
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 in case of complaints.

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- **After eye contact:** Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
Protect unharmed eye.
- **After swallowing:** Seek medical treatment.
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, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
Use fire extinguishing methods suitable to surrounding conditions.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Special hazards arising from the substance or mixture** CO2
Formation of toxic gases is possible during heating or in case of fire.
Nitrogen oxides (NOx)
Carbon monoxide (CO)
- **Advice for firefighters**
- **Protective equipment:** Do not inhale explosion gases or combustion gases.
- **Additional information** Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

6 Accidental Release Measures

- **Personal precautions, protective equipment and emergency procedures** Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation
Wear protective clothing.
Avoid contact with skin and eyes
- **Environmental precautions:** Inform respective authorities in case of seepage into water course or sewage system.
Prevent from spreading (e.g. by damming-in or oil barriers).
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** Store in cool, dry place in tightly closed receptacles.
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
- **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:** Store away from foodstuffs.
- **Further information about storage conditions:** Store in dry conditions.
Keep container tightly sealed.
Recommended storage temperature: 5-30 °C
- **Storage class:** 10
- **Specific end use(s)** No further relevant information available.

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8 Exposure controls and personal protection

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

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

107-21-1 ethanediol

WES	Short-term value: 104** mg/m ³ , 40** ppm Long-term value: 10* 52** mg/m ³ , 20** ppm Sk;*particulate;**vapour
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- **Additional information:** The lists valid during the making were used as basis.
- **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. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.
- **Respiratory protection:** 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
Respiratory protection - Gas filters and combination filters according to (DIN EN 141)
- **Protection of hands:**



Protective gloves

Check protective gloves prior to each use for their proper condition. Only use chemical-protective gloves with CE-labelling of category III. 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** Nitrile rubber, NBR
Recommended thickness of the material: ≥ 0.1 mm
Penetration time (min.): < 10
- **Penetration time of glove material** The determined penetration times according to EN 16523-1:2015 are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.
- **Eye protection:**



Tightly sealed goggles

- **Body protection:** Protective goggles and facial protection - Classification according to EN 166 protective clothing (EN 13034)

9 Physical and Chemical Properties

- **Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**
 - Form:** Fluid
 - Colour:** Colourless
 - 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:** 100 °C
- **Flash point:** 111 °C
- **Flammability (solid, gas):** Not applicable.

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- Decomposition temperature:	Not determined.
- Auto-ignition temperature:	Product is not selfigniting.
- Explosive properties:	Product does not present an explosion hazard.
- Explosion limits:	
- Lower:	3.2 Vol %
- Upper:	53 Vol %
- Density at 20 °C:	1.03 g/cm ³
- Relative density	Not determined.
- Vapour density	Not determined.
- Evaporation rate	Not determined.
- Solubility in / Miscibility with water:	Fully miscible.
- Partition coefficient: n-octanol/water:	Not determined.
- Viscosity:	
- Dynamic at 20 °C:	13 mPas
- Kinematic at 40 °C:	8.7 mm ² /s
- Other information	No further relevant information available.

10 Stability and Reactivity

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

11 Toxicological Information

- **Information on toxicological effects**
- **Acute toxicity**

- LD/LC50 values relevant for classification:

107-21-1 ethanediol

Oral	LD50	7,712 mg/kg (rat)
	LDLo	~1,600 mg/kg (human) ((EU))
Dermal	LD50	>3,500 mg/kg (mouse)
		9,530 mg/kg (rabbit)
	LC50	>2.5 mg/l (rat) (6h; as aerosol)

- **Primary irritant effect:**
- **Skin corrosion/irritation** No irritant effect.
- **Serious eye damage/irritation** No irritating effect.
- **Respiratory or skin sensitisation** No sensitising effects known.

12 Ecological Information

- **Toxicity**

- Aquatic toxicity:

107-21-1 ethanediol

EC20	>1,995 mg/l (Belebtschlamm) (0,5h; ISO 8192)
EC50	>10,000 mg/l (ALGAE)
	>100 mg/l (Daphnia magna) (48h; OECD 202)
	6,500-13,000 mg/l (Selenastrum capricornutum) (96h)
NOEC	8,590 mg/l (Ceriodaphnia dubia) (7d)

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LC50	18,000 mg/l (Oncorhynchus mykiss (Regenbogenforelle)) (96h)
	72,860 mg/l (Pimephales promelas) (96h; static test)
NOEC	15,380 mg/l (Pimephales promelas) (7d)
<ul style="list-style-type: none"> - Persistence and degradability No further relevant information available. - Behaviour 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 undiluted product or large quantities of it to reach ground water, water course or sewage system. Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water - 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. Disposal according to official regulations
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

14 Transport information

- UN-Number	
- ADG, ADN, IMDG, IATA	Void
- UN proper shipping name	
- ADG, ADN, IMDG, IATA	Void
- Transport hazard class(es)	
- ADG, ADN, IMDG, IATA	
- Class	Void
- Packing group	
- ADG, IMDG, IATA	Void
- Environmental hazards:	
- Marine pollutant:	No
- Special precautions for user	Not applicable.
- Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
- UN "Model Regulation":	Void

15 Regulatory information

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

- Australian Inventory of Industrial Chemicals	
All ingredients are listed.	
- Standard for the Uniform Scheduling of Medicines and Poisons	
107-21-1	ethanediol S5, S6, S10
- Australia: Priority Existing Chemicals	
None of the ingredients is listed.	
- Directive 2012/18/EU	
- Named dangerous substances - ANNEX I	None of the ingredients is listed.
- Chemical safety assessment:	A Chemical Safety Assessment has not been carried out.

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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.

- **Department issuing SDS:**

Technical Documentation

- **Contact:**

Technical Documentation

- **Abbreviations and acronyms:**

ADR: Accord relatif au transport international 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

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

vPvB: very Persistent and very Bioaccumulative

- **Sources**

- www.echa.europa.eu

- www.baua.de

IFA: Institute für Occupational Safety and Health of the German Social Accident Insurance:

- www.dguv.de/ifa/gestis/gestis-stoffdatenbank/index.jsp

- www.dguv.de/ifa/gestis/gestis-dnel-liste

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