

1 Identification**Product identifier****Trade name:** Blasospin Cool EFU**Article number:** 04870-01**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

Antifreezing agent

Details of the supplier of the safety data sheet**Manufacturer / Supplier:**

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2 Hazard identification**Classification of the substance or mixture**

Harmful if swallowed.

May damage fertility or the unborn child.

May cause damage to organs through prolonged or repeated exposure.

Label elements**GHS label elements** acc. to Hazardous Products Regulations (HPR)**Hazard pictograms****Signal word** Danger**Hazard-determining components of labeling:**

ethanediol

borax pentahydrate

Hazard statements

H302 Harmful if swallowed.

H360 May damage fertility or the unborn child.

H373 May cause damage to organs through prolonged or repeated exposure.

Precautionary statements

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P270 Do not eat, drink or smoke when using this product.

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P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301+P312 If swallowed: Call a poison center/doctor if you feel unwell.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Other hazards None**Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable.

3 Composition/Information on ingredients

Chemical characterization: Mixtures**Description:**

Mixture of the substances listed below with nonhazardous additions.

Mixture of glycol and inhibitors.

Declarable components:**CAS no.**

107-21-1	ethanediol	80-100% w/w *
532-32-1	sodium benzoate	1-5% w/w *
12179-04-3	borax pentahydrate	1-5% w/w *

* Actual concentration ranges are withheld as a trade secret.

4 First aid measures

Description of first aid measures**General information:**

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

After inhalation: Not applicable, as the concentrate is not volatile.**After skin contact:** Generally the product does not irritate the skin.**After eye contact:** Rinse opened eye for several minutes under running water.**After swallowing:** Immediately call a 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 Firefighting 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**

During heating or in case of fire poisonous gases are produced.

Advice for firefighters**Protective equipment:** Mouth respiratory protective device.**Additional information** Cool endangered receptacles with water spray.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures Mount respiratory protective device.**Environmental precautions:** Do not allow to enter sewers/ surface or ground water.

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Methods and material for containment and cleaning up:

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

Ensure good ventilation/exhaustion at the workplace.
 Open and handle receptacle with care.
 Prevent formation of aerosols.

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: Keep respiratory protective device available.

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.

Further information about storage conditions:

Protect from heat and direct sunlight.
 Optimal storage temperature between 14°F and 104°F
 Optimal storage temperature between -10°C and +40°C.
 Duration of storage: In original container, at least 3 years.

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:****107-21-1 ethanediol**

EL (Canada)	Short-term value: 20** mg/m ³ Long-term value: 10** mg/m ³ Ceiling limit value: 100* mg/m ³ , 50*** ppm *Aerosol; **Particulate; ***Vapour
EV (Canada)	Ceiling limit value: 100 mg/m ³
TLV (USA)	Short-term value: 10** mg/m ³ , 50* ppm Long-term value: 25* ppm *vapor fraction:**inh. fraction, aerosol only
WEEL (USA)	I (2)

12179-04-3 borax pentahydrate

EL (Canada)	Short-term value: 6 mg/m ³ Long-term value: 2 mg/m ³
EV (Canada)	Short-term value: 6 mg/m ³ Long-term value: 2 mg/m ³
REL (USA)	Long-term value: 1 mg/m ³
TLV (USA)	Short-term value: 6* mg/m ³ Long-term value: 2* mg/m ³ *as inhalable fraction

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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.

Wash hands before breaks and at the end of work.

Store protective clothing separately.

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

Body protection (recommended): Protective work clothing

9 Physical and chemical properties

Information on basic physical and chemical properties
General Information
Appearance:

Form:	Fluid
Color:	Blue green
Odor:	Mild
Odor threshold:	Not determined.

pH-value at 20 °C (68 °F): 7.2 (DIN 19268 / ASTM E70)

Change in condition:

Melting point/Melting range:	Not applicable
Boiling point/Boiling range:	174 °C (345.2 °F) (DIN 51751 / ASTM D86)

Flash point: 127 °C (260.6 °F) (ISO 2592 / ASTM D92)

Flammability (solid, gaseous): Not applicable.
Ignition temperature: >400 °C (>752 °F) (DIN 51794 / ASTM E659)

Decomposition temperature: Not determined.

Auto igniting: Product is not selfigniting.

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

Explosion limits (@1013 mbar):

Lower:	3.2 Vol %
Upper:	53 Vol %

Oxidizing properties Not applicable.

Density at 20 °C (68 °F): 1.13 g/cm³ (9.43 lbs/gal) (DIN 51757)
Relative density 1.12 @ 68°F (20°C) (DIN 51757 / ASTM D1217)
Vapor density Not applicable.
 Not determined.

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Evaporation rate	Not determined.
Solubility in / Miscibility with Water:	Easily soluble.
Partition coefficient (n-octanol/water):	Not determined.
Viscosity	
Kinematic at 20 °C (68 °F):	25 mm ² /s (ISO 3104 / ASTM D445)
Other information:	none No further relevant information available.

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 oxidizing agents.
 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

11 Toxicological information

Information on toxicological effects

Acute toxicity:

LD/LC50 values that are relevant for classification:

ATE (Acute Toxicity Estimate)

Oral	LD50	540 mg/kg (rat)
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107-21-1 ethanediol

Oral	LD50	500 mg/kg (rat)
Dermal	LD50	9,530 mg/kg (rabbit)

Primary irritant effect:

on the skin: No irritant effect.

on the eye: No irritating effect.

Sensitization: No sensitizing effects known.

Additional toxicological information:

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

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.

OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients are listed.

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12 Ecological information

Toxicity

Aquatic toxicity: No further relevant information available.

Persistence and degradability Easily biodegradable

Other information:

Biodegradation according OECD 301 B; after 10 days: > 60%.

The product is easily biodegradable according to the OECD 301 and 302 guidelines.

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.

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.

Used containers

Recommendation: Disposal must be made according to official regulations.

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

14 Transport information

UN-Number

DOT/TDG, ADR, IMDG, IATA

Not regulated

DOT/TDG, ADR, IMDG, IATA

Not regulated

DOT, IMDG, IATA

Hazard Classification:

Not regulated

DOT/TDG, ADR, IMDG, IATA

Not regulated

Environmental hazards

Marine pollutant (according to IMDG):

No

Special precautions for user

Not applicable.

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

Transport/Additional information:

Not hazardous according to the above specifications.

IATA

IATA Dangerous Goods Regulation (DGR): latest edition

UN "Model Regulation":

Not regulated

15 Regulatory information

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

TSCA (Toxic Substances Control Act):

All of the ingredients are listed.

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Canadian substance listings:**Canadian Domestic Substances List (DSL): (Substances not listed.)**

All ingredients are listed.

Canadian Environmental Protection Act (CEPA), Schedule 1:

None of the ingredients is listed.

National Pollutant Release Inventory (NPRI)

All of the ingredients are listed.

GHS label elements 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.

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.

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.

BSE/TSE:

Materials and/or synthetically modified materials which are of animal origin from bovine, ovine, goats, cats, dogs, deer, elk and/or mink, are NOT included in this product.

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.

Abbreviations and acronyms:

ICAO: International Civil Aviation Organisation

RoHS: Restriction of Hazardous Substances

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

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)

VOC: Volatile Organic Compounds (USA, EU)

ISO: International Organisation for Standardisation

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

SVHC: Substance of Very High Concern (REACH)

CLP: Classification, Labeling and Packaging (European GHS)

PBT: Persistent, Bioaccumulative and Toxic chemicals

vPvB: very Persistent and very Bioaccumulative chemicals

ATE: Acute Toxicity Estimate

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

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