

Product identifier: base*R fog fluid
Revision date: 16.05.2023
Print date: 19.06.2023
Version: 2.0

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

1.1 Product identifier

base*R fog fluid

Unique Formula Identifier (UFI-Code):

Not applicable

1.2 Relevant identified uses of the mixture and uses advised against

Use of the mixture: To produce haze and fog.

Used which is not recommended: No data available.

1.3 Details of the supplier of the safety data sheet

Company name:

hazebase

Street:

Stargarder Straße 2

Place:

D-30900 Wedemark

Telephone for technical information:

+49 (0) 5130 / 371005

Telephone / Telefax / E-Mail

+49 (0) 5130 / 371005 / +49 (0) 5130 / 371006 / e-mail: al-sdb@hazebase.com

1.4 Emergency telephone number

+49 (0) 30/19240 Poison control centre of the Charité Universitätsmedizin Berlin

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

The product is not classified as dangerous according to Regulation (EC) No 1272/2008

2.2 Label elements

The product is not labeled as dangerous according to Regulation (EC) No. 1272/2008.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher. This mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

No health impairments are known or to be expected in the case of proper handling.

SECTION 3: Composition/information on ingredients

3.1 Substances

The product is a mixture.

3.2 Chemical characterization

Mixture related information: Purified water, Glycol.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information: Remove contaminated clothing.

In case of skin contact: After contact with skin, wash immediately with: Water and soap

In case of eye contact: Rinse thoroughly with plenty of water, also under the eyelids. If eye irritation persists, consult a specialist.

If swallowed: Clean mouth with water and drink afterwards plenty of water. DO NOT INDUCE VOMITING. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.

If inhaled: Remove to fresh air. If symptoms persist, call a physician.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms: No data available

Effects: Health injuries are not known or expected under normal use.

4.3 Indication of any immediate medical attention and special treatment needed

Product identifier: base*R fog fluid
Revision date: 16.05.2023
Print date: 19.06.2023
Version: 2.0

Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Suitable extinguishing media

Suitable: Atomized water, extinguishing powder, alcohol resisted Foam, CO₂.
Unsuitable extinguishing media: High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting: May decompose in fire forming toxic gases.
Hazardous decomposition products: Carbon dioxide (CO₂), carbon monoxide.

5.3 Advice for firefighters

Special protective equipment for firefighters: In the event of fire, wear self-contained breathing apparatus. Wear personal protective equipment.
Further advice: Cool closed containers exposed to fire with water spray. Heating will cause a pressure rise – with risk of bursting. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear personal protective equipment. Keep unprotected persons away. Provide adequate ventilation.
Special risk of slipping due to leaked/ spilled product.

Personnel not trained for emergencies: Ensure adequate ventilation. Use personal protective equipment.

Emergency services: Use personal protective equipment. See Section 8

6.2 Environmental precautions

Environmental precautions: Do not flush into surface water or sanitary sewer system.
Avoid subsoil penetration. If material reaches soil inform authorities responsible for such cases.

6.3 Methods and material for containment and cleaning up

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders). Keep in suitable, closed containers for disposal.
Further information: Treat recovered material as described in the section "Disposal considerations".

6.4 Reference to other sections

See Section 1 for emergency contact information.
See Section 8 for information on personal protective equipment.
See Section 13 for waste treatment information

SECTION 7: Handling and storage

7.1 Precautions for safe handling

If using chemicals the usual precautions have to be observed.
After work wash your hands.

7.2 Conditions for safe storage, including any incompatibilities

Keep container closed.
Suitable container materials: PE, PP, PET, stainless steel, glass.
Keep away from children. Do not store into direct sunlight.
Recommended storage temperature: max. 40°C / 104°F
German storage class: 10 Combustible liquids
12 Non-combustible liquids

7.3 Specific end use(s)

Fog fluid

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.

Component:	1,2 Propandiol	CAS: 57-55-6
Derived No Effect Level (DNEL)/Derived Minimal Effect Level (DMEL)		
DNEL		
Workers, Long-term - systemic effects, Inhalation:		168 mg/m ³
DNEL		
Workers, Long-term - local effects, Inhalation:		10 mg/m ³
DNEL		

Product identifier: base*R fog fluid
 Revision date: 16.05.2023
 Print date: 19.06.2023
 Version: 2.0

Consumers, Long-term - systemic effects, Skin contact:
 DNEL 213 mg/kg bw/day
 Consumers, Long-term - systemic effects, Inhalation: 50 mg/m³

Predicted No Effect Concentration (PNEC)

Fresh water: 260 mg/l
 Marine water: 26 mg/l
 Intermittent releases
 extrapolated: 183 mg/l
 Fresh water sediment: 572 mg/kg d.w.
 Marine sediment: 57,2 mg/kg d.w.
 Soil: 50 mg/kg d.w.
 Sewage treatment plant (STP)
 extrapolated: 2000 mg/l
 Secondary poisoning
 extrapolated: 1133 mg/kg

8.2 Exposure controls

Appropriate engineering controls
 Refer to protective measures listed in sections 7 and 8.

Personal protective equipment

Allgemeine Schutz- und Hygienemaßnahmen: Von Getränken, Nahrungs- und Futtermitteln fernhalten. Beschmutzte, getränkte Kleidung sofort ausziehen. Vor den Pausen und bei Arbeitsende Hände waschen. Berührung mit den Augen und der Haut vermeiden.

Respiratory

protection: Not required in the application.
 Required if vapours or aerosol are released. In case of brief exposure or low pollution use breathing filter apparatus.
 Respiratory protection complying with EN 141. Recommended Filter type: Combination filter: A-P2 In case of intensive or longer exposure use self-contained breathing apparatus.

Hand

protection: Protective gloves complying with EN 374. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Protective gloves should be replaced at first signs of wear.

Material:

Natural Rubber
 Break through time: \geq 8 h
 Glove thickness: 0,5 mm

Material:

Polychloropren
 Break through time: \geq 8 h
 Glove thickness: 0,5 mm

Material:

Nitrile rubber
 Break through time: \geq 8 h
 Glove thickness: 0,35 mm

Eye protection: Goggles giving complete protection to the eyes

Skin and body

protection: Protective work clothing

Environmental exposure controls

General advice: Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

9.1.1 Appearance

- Physical state: Liquid
- Colour: Colourless
- Odour: Odourless
- Odour threshold: no data available

9.1.2 Safety relevant basic data

- pH-value (20°C/68°F): 7 (DIN 19268)
- Boiling point (1013 hPa): $>180^{\circ}\text{C} / 356^{\circ}\text{F}$
- Ignition temperature (solid, gaseous): no data available
- Decomposition temperature: no data available
- Danger of explosion: no data available
- Upper explosion limit: no data available
- Relative vapour density: no data available
- Relative density (20°C/68°F): no data available
- Distribution coefficient (log Pow): no data available
- Viscosity, kinematically: no data available
- Melting point: no data available
- Flash point: $>100^{\circ}\text{C} / 212^{\circ}\text{F}$
- Ignition temperature: $>410^{\circ}\text{C} / 770^{\circ}\text{F}$
- Auto-ignition temperature: no data available
- Lower explosion limit: no data available
- Steam pressure (20°C/68°F): no data available
- Density (20°C/68°F): Ca. 1,039g/cm³ (ISO 387)
- Water solubility (20°C/68°F): Complete miscible
- Viscosity / dynamic (20°C/68°F): 40 mPa.s
- Particle characteristics: No data available

Product identifier: base*R fog fluid
Revision date: 16.05.2023
Print date: 19.06.2023
Version: 2.0

9.2 Other information

Other data have not been determined.

SECTION 10: Stability and reactivity

10.1 Reactivity

None if used as intended.

10.2 Chemical stability

Stable under normal temperature and pressure conditions.

10.3 Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid

No decomposition when used as intend.
Protect from direct sunlight.
Keep container tightly closed.
> 40 °C

10.5 Incompatible materials

Strong oxidising agents. Strong acids.

10.6 Hazardous decomposition products

In case of fire hazardous decomposition products may be produced such as: Carbon oxides

11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Based on the available data, the classification criteria are not met.

Classification-relevant LD/LC50 values:

Component:	Propane-1,2-diol	CAS: 57-55-6
Oral LD50	>22000 mg/kg (rat)	
Dermal LD50	>2000 mg/kg (rabbit)	

Skin corrosion/irritation

No skin irritation.
Based on available data, the classification criteria are not met.

Serious eye damage/ irritation

No eye irritation.
Based on available data, the classification criteria are not met.

Sensitization to the respiratory tract or skin

No sensitization known.
Based on available data, the classification criteria are not met.

Germ cell mutagenicity

The mixture is not classified.
The mixture does not contain substances classified as mutagens.

Carcinogenicity

The mixture is not classified.
The mixture does not contain substances classified as carcinogens.

Reproductive toxicity

The mixture is not classified.
The mixture does not contain substances classified as toxic for reproduction.

STOT-single exposure (Specific target organ toxicity)

Based on available data, the classification criteria are not met.

STOT-repeated exposure (Specific target organ toxicity)

Based on available data, the classification criteria are not met.

Aspiration hazard

Product identifier: base*R fog fluid
 Revision date: 16.05.2023
 Print date: 19.06.2023
 Version: 2.0

Based on available data, the classification criteria are not met.

Information on likely routes of exposure

Oral, inhalation, skin contact, eye contact

11.2 Information on other hazards

Endocrine disrupting properties: No ingredients of the mixture are listed.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity:

Component:	Propane-1,2-diol	CAS: 57-55-6
EC 50 / 48 h	18800 mg/l (Mysidopsis bahia)	
IC 50 / 72 h	24200 mg/l (Selenastrum capricornutum (green algae))	
LC 50 / 96 h	40613 mg/l (rainbow trout (Oncorhynchus mykiss))	

12.2 Persistence and degradability

Persistence: No data available

CAS-Nr.	Component Method Evaluation	Result	d	Data Source
57-55-6	1,2 Propandiol Readily biodegradable (OECD Test Guideline 301F) (OECD Test Guideline 306)	81%	28	Manufacturer
		96%	64	Manufacturer

12.3 Bioaccumulative potential

Bioaccumulation is not expected.

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Mixture is not considered to be persistent, bioaccumulating nor toxic (PBT).

Mixture is not considered to be very persistent and very bioaccumulative nor (vPvB).

12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

12.7 Other adverse effects

No further relevant information available.

Do not empty into drains or the aquatic environment.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Special disposal required according to local regulations. Do not let product enter drains.

Small amounts diluted with water, dispose with wastewater. Larger amounts back to the manufacturer.

Recommendation: Contact waste disposal services.

Packaging

Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning. If recycling is not practicable, dispose of in compliance with local regulations.

Rinse empty packaging with plenty of water, then recycle, landfill or incinerate in an orderly manner.

Advice cleaner: Water, in case with cleaner.

SECTION 14: Transport information

14.1 UN-No

Not applicable

14.2 Proper shipping name:

Not applicable

14.3 Class(es)

No dangerous goods under the provisions of ADR road transport / RID railway transport / AND / IMDG sea transport / IATA air transport.

14.4 Packing group

Not applicable

Product identifier: base*R fog fluid
Revision date: 16.05.2023
Print date: 19.06.2023
Version: 2.0

14.5 Environmental hazards

Not applicable

14.6 Special precautions for user

Not applicable

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

This product is not intended for transport in bulk.

SECTION 15: Regulatory information

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

EU-Regulations

Directive 2010/75/EU (VOC): 90%

EU Directive 2012/18/EU

(SEVESO III) on major

accident hazards involving

dangerous substances,

Annex I: The mixture does not fall under this legislation.

National regulatory information (D):

Water contaminating class (D): 1 - slightly water contaminating.

German storage class TRGS 510: 10 Combustible liquids

12 Non-combustible liquids

15.2 Chemical Safety Assessment

Chemical safety assessments for this mixture were not carried out.

16. Other information

Applicable EC-Directives

REACH-Regulation (EC) No. 1907/2006

CLP-Regulation (EC) No. 1272/2008

Other information

Key literature references and sources for data:

Internet:

<http://www.baua.de>

<http://publikationen.dguv.de>

<http://dguv.de/ifa/stoffdatenbank>

<http://www.gischem.de>

<http://echa.europa.eu/en/candidate-list-table>

Supplier information and data from the "Database of registered substances" of the European Chemicals Agency (ECHA) were used to create this safety data sheet.

Methods used for product classification:

The classification for human health, physical and chemical hazards and environmental hazards were derived from a combination of calculation methods and if available test data.

Updated sections: 1, 2, 4, 5, 6, 7, 9, 11, 12, 15, 16

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 Organization

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 Harmonized System of Classification and Labelling of Chemicals

CLP: Classification, Labelling and Packaging (Regulation (EC) No. 1272/2008)

TRGS: Technische Regeln für Gefahrstoffe (Technical Rules for Dangerous Substances, BAuA, Germany)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

Safety Data Sheet according to Regulation (EC) No 1907/2006



Product identifier: base*R fog fluid
Revision date: 16.05.2023
Print date: 19.06.2023
Version: 2.0

The data correspond to our present state of knowledge and experience. Warranty or guarantee of the properties is not associated with.

DS 2035-1 Material Safety Data Sheet 50604800A