

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



Product identifier: base\*H fog fluid  
Revision date: 09.05.2023  
Print date: 19.06.2023  
Version: 6.0

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

### 1.1 Product identifier

#### base\*H fog fluid

**Unique Formula Identifier (UFI-Code):**  
Not necessary

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

Use of the Mixture: To produce haze and fog  
Uses advised against: 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

+49 (0) 30/19240 Poison control centre of the Charité Universitätsmedizin Berlin  
Available 24h/7d

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

#### Classification according to Regulation (EC) No 1272/2008

This mixture is not classified as dangerous according to Regulation (EC) No 1272/2008 [CLP/GHS]

### 2.2 Label elements

Not necessary

### 2.3 Other hazards

Results of the PBT- and vPvB-assessment  
PBT: inapplicable  
vPvB: inapplicable

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

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

not applicable

### 3.2 Mixtures

Description of the mixture:  
Solution of purified water and glycol.

No hazardous ingredients according to Regulation (EC) No 1907/2006 (Reach)

#### Ingredients:

CAS-No.  
Index-No.  
EG-No.

EINECS, ELINCS, NLP

REACH No.

112-27-6

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203-953-2

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01-2119438366-35-xxxx

Substance name

2,2'-(Ethylendioxy)diethanol

Concentration %

<=55

Classification

(EC) No. 1272/2008 (CLP/GHS)

SCL specific concentration limit

M-factor and ATE (Acute Toxicity Estimates)

not classified

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## SECTION 4: First aid measures

### 4.1 Description of first aid measures

General advice: Remove contaminated clothing.  
In case of skin contact: After contact with skin, wash immediately with: Water and soap  
In case of eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, transport to the nearest medical facility for additional treatment.  
If inhaled: Move to fresh air. If symptoms persist, consult a doctor.  
If swallowed: Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. If symptoms persist, call a physician.

### 4.2 Most important symptoms and effects, both acute and delayed

Symptoms : No data available  
Effects: No health impairments are known or to be expected in the case of proper handling.

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

Treat symptomatically.

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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media: Atomized water. extinguishing powder, foam, CO<sub>2</sub>.  
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 (CO<sub>2</sub>), carbon monoxide.

### 5.3 Advice for fire-fighters

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.

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## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions: Wear personal protective equipment. Keep unprotected persons away. Provide adequate ventilation.  
Further advice: 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.

### 6.3 Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).  
Place in suitable and closed containers for disposal. Treat the collected material according to section Disposal.

### 6.4 Reference to other sections

For emergency information see section 1.  
Protection measures see section 7 and 8.  
See Section 13 for waste treatment information.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

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

### 7.2 Conditions for safe storage, including any incompatibilities

Keep tightly closed in a dry and cool place. Protect against light. Store in original container.  
Suitable container materials: PE, PP, PET, stainless steel, glass.  
Keep away from children,  
Recommended storage temperature: max. 60°C / 140°F  
German storage class: 10 Combustible liquids  
12 Non-combustible liquids

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## 7.3 Specific end use(s)

Fog fluid

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

<b>Component:</b>	<b>2,2'-(Ethyldioxy)diethanol</b>	<b>CAS-Nr. 112-27-6</b>
Specification :	Germany, TRGS 900, Occupational Exposure Limits (AGW), Exposure limit(s):	
Value :	1000 mg/m <sup>3</sup> E	
	If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7).	

#### Derived No Effect Level (DNEL)/Derived Minimal Effect Level (DMEL)

DNEL	
Workers, Long-term - local effects, Inhalation:	50 mg/m <sup>3</sup>
DNEL	
Workers, Long-term - systemic effects, Skin contact:	40 mg/kg bw/day
DNEL	
Consumers, Long-term - local effects, Inhalation:	25 mg/m <sup>3</sup>
DNEL	
Consumers, Long-term - systemic effects, Skin contact:	20 mg/kg bw/day

#### Predicted No Effect Concentration (PNEC)

Fresh water:	10 mg/l
Marine water:	1 mg/l
Intermittent releases:	10 mg/l
Sewage treatment plant (STP):	10 mg/l
Fresh water sediment:	46 mg/kg d.w.
Soil:	3,32 mg/kg d.w.

### 8.2 Exposure controls

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

Personal protective equipment.

General protection and hygiene measures. Keep away from beverages, food and feed.  
 Immediately remove soiled or soaked clothing.

Washing hands before breaks and at the end of work. Avoid contact with skin and eyes.

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: >= 8 h  
 Glove thickness: 0,5 mm
- Material: Polychloropren  
 Break through time: >= 8 h  
 Glove thickness: 0,5 mm
- Material: Nitrile rubber  
 Break through time: >= 8 h  
 Glove thickness: 0,35 mm
- Material: Butyl-rubber  
 Break through time: >= 8 h  
 Glove thickness: 0,5 mm
- Material: Fluorinated rubber  
 Break through time: >= 8 h  
 Glove thickness: 0,4 mm
- Material: Polyvinylchloride  
 Break through time: >= 8 h  
 Glove thickness: 0,5 mm

Eye protection: Tight-closing safety goggles.  
 Skin and body protection: Protective work clothing

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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: Very faint
- Odour threshold: no data available

#### 9.1.2 Safety relevant basic data

- pH-value (20°C/68°F): not applicable (DIN 19268)
- Boiling point (1013 hPa): 280-295°C / 536-563°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: -5°C / 23°F
- Flash point: >175°C / >347°F
- Ignition temperature: >400°C / >752°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. 1,07g/cm<sup>3</sup> (ISO 387)
- Water solubility (20°C/68°F): Complete miscible
- Viscosity / dynamic (20°C/68°F): 45 mPa.s
- Particle characteristics: No data available

#### 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

None if used as intended

### 10.4 Conditions to avoid

Protect from direct sunlight.  
Keep container tightly closed.  
> 60°C / 140°F

### 10.5 Incompatible materials

Strong oxidising agents. Strong acids

### 10.6 Hazardous decomposition products

No hazardous decomposition products known in the field of application.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

There are no toxicological findings about this mixture.

<b>Component:</b>	<b>2,2'-(Ethylendioxy)diethanol</b>	<b>CAS-No. 112-27-6</b>
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#### Acute toxicity

Oral: LD50: >2000mg/kg (rat)  
Skin: LD50: >2000mg/kg (rabbit)

#### Rating/ classification of the substance/ mixture:

The mixture is not acutely toxic.

#### Skin corrosion/irritation

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

#### Serious eye damage/ irritation

No eye irritation

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

#### Sensitization to the respiratory tract or skin

Non-sensitizing (Patch-test; dermal; people)  
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.  
Based on available data, the classification criteria are not met.

#### Specific target organ toxicity - repeated exposure

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

#### Specific target organ toxicity - single exposure

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

#### Aspiration hazard

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

Component:	2,2'-(Ethylendioxy)diethanol	CAS-No. 112-27-6
Aquatic toxicity:		
Fish: LC50: > 10000 mg/l (Lepomis macrochirus; 96 h) (statistical test)		
Toxicity to water fleas and other invertebrate aquatic animals: EC50: > 10000 mg/l (Daphnia magna (large water flea); 48 h) (Statistical test; DIN 38412)		
Algae: EC0: > 10000 mg/l (Scenedesmus subspicatus; 192 h)		
Bacteria: > 1995 mg/l (activated sludge; 0,5 h) (static test; End point: Respiration inhibition)		

### 12.2 Persistence and degradability

Persistence: No data available  
Biodegradability: Easily biodegradable. Analogy.

### 12.3 Bioaccumulative potential

Bioaccumulation is not expected.

### 12.4 Mobility in soil

Water: The product is water soluble.  
Air: Non-volatile  
On the ground: Adsorption on the ground is not to be expected.

### 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

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## 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.

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## 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

### 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.

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## SECTION 15: Regulatory information

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

#### EU-Regulations

Directive 2010/75/EU (VOC): 0%  
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.

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## SECTION 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.

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#### 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, 3, 6, 7, 9, 10, 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

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

DS 1410-5 MW Material Safety Data Sheet 50604500