

Product identifier: base*R smokefluid
Revision date: 27.01.2021
Print date: 28.01.21
Version: 1.0

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

1.1 Product identifier

base*R smokefluid

1.2 Relevant identified uses of the mixture and uses advised against

Use of the mixture: To produce smoke and dust.
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

+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 in accordance with ordinance (EC) no. 1272/2008
This mixture is not classified as dangerous according to Directive (EG) Nr. 1272/2008.

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 Ingredients

This 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 advice: Remove contaminated clothing.
In case of skin contact: Wash off immediately with plenty of water and soap.
In case of eye contact: Rinse immediately with plenty of water, also under the eyelids. Protect unharmed eye. Consult an eye specialist immediately.
If inhaled: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
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 a person vomits when lying on his back, place him in the recovery position. Call a physician immediately.

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. (Decontamination, vital functions), no specific antidot known.

Product identifier: base*R smokefluid
 Revision date: 27.01.2021
 Print date: 28.01.21
 Version: 1.0

SECTION 5: Firefighting measures

5.1 Suitable extinguishing media

Suitable: Atomized water. extinguishing powder, alcohol resisted Foam, CO2.
 Unsuitable: Water in full jet.

5.2 Special hazards arising from the substance or mixture

Special dangers during fire fighting:
 May decompose in fire forming toxic gases. Hazardous decomposition products: Carbon dioxide (CO2), carbon monoxide.

5.3 Advice for fire-fighters

Staying in the danger zone only with air conditioning independent breathing apparatus. Avoid skin contact by wearing suitable protective clothing and keeping a safe distance. Use water spray/stream to protect personnel and to cool endangered containers. Beat down escaping vapours with water. Collect contaminated extinguishing water, must not get into the sewer system.

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.

6.2 Environmental precautions

Keep away from sewers, water and soil. Notify competent authority in case of intrusion.

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.

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.
 Recommended storage temperature: max. 40°C / 104°F

7.3 Specific end use(s)

Smoke fluid

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Component: Propane-1,2-diol **CAS:** 57-55-6
 Contains no substances with occupational exposure limit values.

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

DNEL	Workers, Long-term - systemic effects, Inhalation	168 mg/m3
DNEL	Workers, Long-term - local effects, Inhalation	10 mg/m3
DNEL	Consumers, Long-term - systemic effects, Skin contact	213 mg/kg bw/day
DNEL	Consumers, Long-term - systemic effects, Inhalation	50 mg/m3
DNEL	Consumers, Long-term - systemic effects, Ingestion	85 mg/kg bw/day
DNEL	Consumers, Long-term - local effects, Inhalation	10 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

Product identifier: base*R smokefluid
Revision date: 27.01.2021
Print date: 28.01.21
Version: 1.0

8.2 Exposure controls

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.
Hand protection: Solvent resistant gloves.
Eye protection: Tight-closing safety goggles.

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°C / 356°F
- Ignition temperature (solid, gaseous): no data available
- Decomposition temperature: no data available
- Explosivity: 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°C / 212°F
- Ignition temperature: >410°C / 770°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

9.2 Other information

Other data have not been determined.

SECTION 10: Stability and reactivity

10.1 Reactivity

No decomposition if stored and applied as directed.

10.2 Chemical stability

Stable under recommended storage 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

SECTION 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

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

Product identifier: base*R smokefluid
Revision date: 27.01.2021
Print date: 28.01.21
Version: 1.0

Serious eye damage/ irritation

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

Sensitization to the respiratory tract or skin

No sensitization known.
Based on the 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.

Specific target organ toxicity - repeated exposure

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

Specific target organ toxicity - single exposure

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

Aspiration hazard

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

Other information

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

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
Bio degradability: 81 % (anaerobic; Exposure Time: 28 d)(OECD Test Guideline 301F)
Readily biodegradable.
The 10 day time window criterion is fulfilled.
96 % (Exposure Time: 64 d)(OECD Test Guideline 306)

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 Other adverse effects

Do not empty into drains or the aquatic environment.
No further relevant information available.

Other information

The toxicological data of this product have not been determined experimentally.
The figures are calculated from the evaluations or tests of similar products.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Product identifier: base*R smokefluid
Revision date: 27.01.2021
Print date: 28.01.21
Version: 1.0

Disposal together with normal waste is not allowed. Special disposal required according to local regulations. Do not let product enter drains. Contact waste disposal services.

Packaging

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 / 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.

SECTION 15: Regulatory information

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

EU-Vorschriften

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

National regulatory information (D):

Water contaminating class (D): 1 - slightly hazardous to water. AwSV (DE)

15.2 Chemical Safety Assessment

A Chemical Safety Assessment according to Regulation No. 1907/2006 (Reach) is not required for this mixture.

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.

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.

Sektion 1-16 were processed.

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

Product identifier: base*R smokefluid
Revision date: 27.01.2021
Print date: 28.01.21
Version: 1.0

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 2035-0 Material Safety Data Sheet 50604800A