

## Safety data sheet according to 1907/2006/EC, Article 31

Printing date 21.11.2022

Version number 4.0 (replaces version 3.0)

Revision: 21.11.2022

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

- **1.1 Product identifier**
- **Trade name:** ICE BREAKER Flüssig-Enteiser
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Product category** PC4 Anti-Freeze and de-icing products
- **Process category**
  - PROC11 Non industrial spraying
  - PROC10 Roller application or brushing
  - PROC7 Industrial spraying
- **Application of the substance / the mixture** De-Icing Agent
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
  - RAW Handel und Beratungs GmbH
  - Eichstetter Straße 55
  - D-79232 March-Neuershausen
  - Tel.: +49 (0) 7665 / 934 29 - 0
  - Fax. +49 (0) 7665 / 934 29 - 25
- **Informing department:**
  - Responsible person R.A.W.: M. Wittstock
  - Tel.: +49 (0) 7665 / 934 29-0
  - Competant person MSDS E-Mail: [sds@umweltkanzlei.de](mailto:sds@umweltkanzlei.de)
- **1.4 Emergency telephone number:**
  - Poison information center: Freiburg im Breisgau +49 (0) 761 / 19240

### SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



Eye Irrit. 2 H319 Causes serious eye irritation.

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**
  - The product is classified and labelled according to the GB CLP regulation.
- **Hazard pictograms**



GHS07

- **Signal word** Warning
- **Hazard statements**
  - H319 Causes serious eye irritation.
- **Precautionary statements**
  - P264 Wash thoroughly after handling.
  - P280 Wear eye protection / face protection.
  - P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
  - P337+P313 If eye irritation persists: Get medical advice/attention.

(Contd. on page 2)

## Safety data sheet

### according to 1907/2006/EC, Article 31

Printing date 21.11.2022

Version number 4.0 (replaces version 3.0)

Revision: 21.11.2022

**Trade name: ICE BREAKER Flüssig-Enteiser**


(Contd. of page 1)

- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

### SECTION 3: Composition/information on ingredients

- **3.2 Mixtures**
- **Description:** Mixture of substances listed below with nonhazardous additions.

#### · **Dangerous components:**

CAS: 10043-52-4 EINECS: 233-140-8 Reg.nr.: 01-2119494219-28	calcium chloride	 Eye Irrit. 2, H319	25-<50%
---	------------------	---	---------

- **Additional information** For the wording of the listed hazard phrases refer to section 16.

### SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **General information**  
Instantly remove any clothing soiled by the product.  
Contaminated work clothing should not be allowed out of the workplace.
- **After inhalation** Supply fresh air; consult doctor in case of symptoms.
- **After skin contact**  
Instantly wash with water and soap and rinse thoroughly.  
If skin irritation continues, consult a doctor.
- **After eye contact** Rinse opened eye for several minutes under running water. Then consult doctor.
- **After swallowing**  
Rinse mouth.  
Do not induce vomiting.  
In case of persistent symptoms consult doctor.
- **4.2 Most important symptoms and effects, both acute and delayed**  
No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents**  
The product itself does not burn.  
Use fire fighting measures that suit the environment.
- **5.2 Special hazards arising from the substance or mixture**  
No further relevant information available.
- **5.3 Advice for firefighters**
- **Protective equipment:** Wear self-contained breathing apparatus.

### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Avoid contact with eyes and skin.  
Wear protective equipment. Keep unprotected persons away.  
Particular danger of slipping on leaked/spilled product.

(Contd. on page 3)

## Safety data sheet

### according to 1907/2006/EC, Article 31

Printing date 21.11.2022

Version number 4.0 (replaces version 3.0)

Revision: 21.11.2022

**Trade name: ICE BREAKER Flüssig-Enteiser**

(Contd. of page 2)

Ensure adequate ventilation

- **6.2 Environmental precautions:** Do not allow to enter drainage system, surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders).
- **6.4 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 information on disposal.

### SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**  
Ensure good ventilation/exhaustion at the workplace.  
Avoid contact with eyes and skin.  
Keep away from heat and direct sunlight.
- **Information about protection against explosions and fires:** The product is not flammable.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage**  
· **Requirements to be met by storerooms and containers:** No special requirements.
- **Information about storage in one common storage facility:**  
Store away from oxidising agents.  
Store separately from strong reducing agents.
- **Further information about storage conditions:**  
Only store in original container closed at cool and ventilated place.
- **Storage class 12**
- **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**
- **Components with limit values that require monitoring at the workplace:**  
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **8.2 Exposure controls**
- **Appropriate engineering controls** No further data; see item 7.
- **Individual protection measures, such as personal protective equipment**
- **General protective and hygienic measures**  
Avoid contact with the eyes and skin.  
Take off immediately all contaminated clothing  
Wash hands during breaks and at the end of the work.  
Keep away from foodstuffs, beverages and food.
- **Breathing equipment:** Not required.
- **Hand protection**



Protective gloves

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

- **Material of gloves** Nitrile rubber, NBR

(Contd. on page 4)

## Safety data sheet

### according to 1907/2006/EC, Article 31

Printing date 21.11.2022

Version number 4.0 (replaces version 3.0)

Revision: 21.11.2022

Trade name: **ICE BREAKER Flüssig-Enteiser**

(Contd. of page 3)

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **For the permanent contact gloves made of the following materials are suitable:**

Nitrile rubber, NBR

Thickness  $\geq 0.35$  mm.

· **Eye/face protection** Tightly sealed safety glasses.

· **Body protection:** Protective work clothing.

## SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**

· **General Information**

· <b>Colour:</b>	White
· <b>Odour:</b>	odourless
· <b>Melting point/freezing point:</b>	< -15 °C
· <b>Boiling point or initial boiling point and boiling range</b>	~100 °C
· <b>Flash point:</b>	Not applicable
· <b>pH at 20 °C</b>	5-11
· <b>Viscosity:</b>	
· <b>Kinematic viscosity</b>	Not determined.
· <b>dynamic:</b>	Not determined.
· <b>Solubility</b>	
· <b>Water:</b>	Fully miscible
· <b>Vapour pressure:</b>	Not determined.
· <b>Density and/or relative density</b>	
· <b>Density at 20 °C</b>	1.33 g/cm <sup>3</sup>

· **9.2 Other information**

· <b>Appearance:</b>	
· <b>Form:</b>	Fluid
· <b>Important information on protection of health and environment, and on safety.</b>	
· <b>Self-inflammability:</b>	Product is not selfigniting.
· <b>Explosive properties:</b>	Product is not explosive.

· **Information with regard to physical hazard classes**

· <b>Explosives</b>	Void
· <b>Flammable gases</b>	Void
· <b>Aerosols</b>	Void
· <b>Oxidising gases</b>	Void
· <b>Gases under pressure</b>	Void
· <b>Flammable liquids</b>	Void
· <b>Flammable solids</b>	Void
· <b>Self-reactive substances and mixtures</b>	Void
· <b>Pyrophoric liquids</b>	Void
· <b>Pyrophoric solids</b>	Void
· <b>Self-heating substances and mixtures</b>	Void
· <b>Substances and mixtures, which emit flammable gases in contact with water</b>	Void
· <b>Oxidising liquids</b>	Void
· <b>Oxidising solids</b>	Void
· <b>Organic peroxides</b>	Void

(Contd. on page 5)

## Safety data sheet

### according to 1907/2006/EC, Article 31

Printing date 21.11.2022

Version number 4.0 (replaces version 3.0)

Revision: 21.11.2022

Trade name: ICE BREAKER Flüssig-Enteiser

(Contd. of page 4)

- |  |  |
|--|--|
| <ul style="list-style-type: none"> <li>· <b>Corrosive to metals</b></li> <li>· <b>Desensitised explosives</b></li> </ul> | <ul style="list-style-type: none"> <li>Void</li> <li>Void</li> </ul> |
|--|--|

### SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known
- **10.4 Conditions to avoid** Light and heat.
- **10.5 Incompatible materials:**  
Store away from oxidising agents.  
Store separately from strong reducing agents.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known

### SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
  - **Acute toxicity** Based on available data, the classification criteria are not met.
  - **LD/LC50 values that are relevant for classification:**
- |                                    |                        |
|------------------------------------|------------------------|
| <b>10043-52-4 calcium chloride</b> |                        |
| Oral                               | LD50 2,120 mg/kg (Rat) |
- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
  - **Serious eye damage/irritation**  
Causes serious eye irritation.
  - **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
  - **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
  - **Carcinogenicity** Based on available data, the classification criteria are not met.
  - **Reproductive toxicity** Based on available data, the classification criteria are not met.
  - **STOT-single exposure** Based on available data, the classification criteria are not met.
  - **STOT-repeated exposure** Based on available data, the classification criteria are not met.
  - **Aspiration hazard** Based on available data, the classification criteria are not met.
  - **11.2 Information on other hazards**

- **Endocrine disrupting properties**

None of the ingredients is listed.

### SECTION 12: Ecological information

- **12.1 Toxicity**
  - **Aquatic toxicity:**
- |                                    |                                  |
|------------------------------------|----------------------------------|
| <b>10043-52-4 calcium chloride</b> |                                  |
| LC50 (96 h)                        | 3,130 mg/l (Nitzschia linearis)  |
|                                    | 4,630 mg/l (Pimephales promelas) |
| LC50 (48 h)                        | 2,770 mg/l (Daphnia magna)       |
- **12.2 Persistence and degradability**  
Anorganic product, is not eliminable from water by means of biological cleaning processes.
  - **12.3 Bioaccumulative potential** No bioaccumulative potential.
  - **12.4 Mobility in soil** No further relevant information available.

(Contd. on page 6)



## Safety data sheet

### according to 1907/2006/EC, Article 31

Printing date 21.11.2022

Version number 4.0 (replaces version 3.0)

Revision: 21.11.2022

**Trade name: ICE BREAKER Flüssig-Enteiser**

(Contd. of page 6)

### SECTION 16: Other information

*These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.*

· **Relevant phrases**

H319 Causes serious eye irritation.

· **Department issuing data specification sheet:**

The safety data sheets were drawn up in cooperation with the Umweltkanzlei Dr.Rhein Beratungs- und Prüfgesellschaft mbH, Phone: +49 511 228514-0.

· **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

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)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

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

GB