

SAFETY DATA SHEET

Issued: 2024-08-28

Version: 1.6

Revised: 2024-12-19

Section 1. Identification of the substance/mixture and the company/undertaking

1.1 Product Identifier

Trade Name: BRO-CURE RTU**UFI:** RW03-XAJ6-P40R-4C9J

1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Use: Membrane curing agent for concrete floors, diluted solution.

1.3 Details of the Supplier of the Safety Data Sheet

Address:

Hydratec Scandinavia AB

Hallsbergsterminalen 11

694 35 HALLSBERG, Sweden

Telephone: +46 10-585 21 00

E-mail: info@hydratec.se

1.4 Emergency Telephone Number

112 – Request Poison Information

Section 2. Hazards Identification

2.1 Classification of the Substance or Mixture

Classification: Skin Irrit. 2; H315, Eye Irrit. 2; H319**HEALTH**

Inhalation of high concentrations of mist may cause irritation in the nose and throat and coughing. Splashes in the eyes cause severe irritation. Contact with skin may cause redness and irritation.

ENVIRONMENT

The product does not contain environmentally hazardous substances.

FIRE

The product is not flammable.

2.2. Label elements

**Hazard pictogram:****Signal word:****Warning****Hazard Statements:**

- H315: Causes skin irritation.
- H319: Causes serious eye irritation.

Precautionary Statements:

- P264: Wash hands thoroughly after handling.
- P280: Wear protective gloves/protective clothing/eye protection/face protection.
- P302+P352: IF ON SKIN: Wash with plenty of soap and water.
- P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
- P332+P313: If skin irritation occurs: Get medical advice/attention.
- P337+P313: If eye irritation persists: Get medical advice/attention.

SAFETY DATA SHEET

Issued: 2024-08-28

Version: 1.6

Revised: 2024-12-19

- P362: Take off contaminated clothing and wash before reuse.

Contains: Inorganic silicate

2.3. Other hazards

The mixture does not contain substances that meet the criteria for PBT (Persistent, Bioaccumulative, and Toxic) or vPvB (Very Persistent and Very Bioaccumulative) according to Annex XIII (REACH). The mixture does not contain substances with endocrine-disrupting properties at concentrations exceeding 0.1% by weight.

Section 3. Composition/Information on Ingredients

3.2. Mixtures

Classification of substances according to CLP, 1272/2008/EC

<u>Hazardous substances</u>	<u>Content %</u>	<u>CAS no.</u>	<u>EC no.</u>	REACH Registration no.	<u>Hazard class/category</u>	<u>Hazard statements</u>
Silicate, inorganic ¹ (SiO ₂ :M ₂ O >2.6)	10-<20	-	-	*	Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2	H302, H315, H319
Other substances	-	-	-	-	-	-
Water	80-90	-	-	-	-	-

* The specified substance is registered under REACH, 1907/2006/EC

Hazard Statements in full: H302: Harmful if swallowed, H315: Causes skin irritation, H319: Causes serious eye irritation

Note 1: The molar ratio between SiO₂ and M₂O is greater than 2.6, which means classification as an irritant (according to CEFIC recommendations). (M can be Na or K).

Section 4. First Aid Measures

4.1 Description of First Aid Measures

- **Inhalation:** Fresh air, warmth, and rest.
- **Skin Contact:** Remove contaminated clothing. Wash with soap and water. Contact a doctor if symptoms persist.
- **Eye Contact:** Immediately rinse with water for at least 5 minutes (keep eyelids wide apart, remove contact lenses if present). Contact a doctor if symptoms persist.
- **Ingestion:** Drink milk or water. Do not induce vomiting. Contact a doctor if a large amount has been ingested.

4.2 Most Important Symptoms and Effects, Both Acute and Delayed

- **Inhalation:** Inhalation of high mist concentrations may cause irritation in the nose and throat and coughing.
- **Skin Contact:** May cause redness and irritation upon contact with the skin.
- **Eye Contact:** Splashing into eyes causes severe irritation.

4.3 Indication of Immediate Medical Attention and Special Treatment Needed

As a general rule, if in doubt or if symptoms persist, always contact a doctor. Never give anything by mouth to an unconscious person.

SAFETY DATA SHEET

Issued: 2024-08-28

Version: 1.6

Revised: 2024-12-19

Section 5. Firefighting Measures

5.1 Extinguishing Media

The product is not flammable. Surrounding fires can be extinguished with powder, carbon dioxide, or foam.

5.2 Special Hazards Arising from the Substance or Mixture

Move containers away from the fire area if it can be done safely.

5.3 Advice for Firefighters

In the event of a large fire, use self-contained breathing apparatus (fire suit, compressed air apparatus) when fighting the fire to protect against smoke/gases.

Section 6. Accidental Release Measures

6.1 Personal Precautions, Protective Equipment, and Emergency Procedures

Use chemically resistant gloves. See also "personal protective equipment" in Section 8."

6.2 Environmental Precautions

Prevent spills from entering drains in large quantities. In case of large spills, contact emergency services. If a large spill reaches water sources, notify water authorities or sewage treatment facilities. If a spill poses a risk of environmental damage, contact the responsible municipal authority.

6.3 Methods and Materials for Containment and Cleaning Up

Contain with peat, sand, soil, or similar and collect. The collected material should be handled according to Section 13. Rinse the area with water after a spill – be mindful of the slip hazard.

6.4 Reference to Other Sections

See Section 1 for emergency contact numbers.

See Section 8 for information on suitable personal protective equipment.

See Section 13 for additional disposal information.

Section 7. Handling and Storage

7.1 Precautions for Safe Handling

Keep containers closed whenever possible. Ensure good ventilation in storage and work areas. Avoid direct contact with the product. Wash hands after use and remove contaminated clothing and protective equipment before meals.

7.2 Conditions for Safe Storage, Including Any Incompatibilities

Store in a cool (not above 30°C), frost-free, well-sealed container in a well-ventilated area, protected from sunlight. Store separately from strong acids.

7.3 Specific End Use(s)

The product is used as a membrane curing agent for concrete floors. Prolonged skin contact with the product and splashes in the eyes should be avoided due to the risk of irritation. If direct contact or splashes cannot be avoided, personal protective equipment should be used, see Section 8.

SAFETY DATA SHEET

Issued: 2024-08-28

Version: 1.6

Revised: 2024-12-19

Section 8. Exposure Controls/Personal Protection

8.1. Control Parameter

Reference: AFS 2018:1 (Hygienic Limit Values)

Chemical name	Occupational Exposure Limit (OEL)	Short-Term Exposure Limit (STEL)	Remarks
Inorganic silicate	Not specified	Not specified	-

8.2 Exposure Controls

8.2.1 Appropriate Engineering Controls

Avoid direct contact with the product. Eye-wash facilities should be available in the workplace.

8.2.2 Individual Protection Measures, e.g., Personal Protective Equipment

a) Eye/Face Protection

Safety goggles (protective glasses) with side protection when there is a risk of direct contact or splashes. See SS-EN 166.

b) Skin Protection

Protective gloves (e.g., natural rubber or neoprene rubber) when there is a risk of direct contact or splashes. Protective clothing as needed. See SS-EN 374.

c) Respiratory Protection

Full-face mask with P2 particle filter or breathing apparatus when handling mist-forming substances. See SS-EN 136.

Section 9. Physical and Chemical Properties

9.1 Information on Basic Physical and Chemical Properties

Property	Value
Physical state	Liquid
Color	Pink
Odor	Odorless
Melting/Freezing point	Not specified
Boiling Point or Initial Boiling Point and Boiling Range	100°C
Flammability	Not specified
Lower and Upper Explosion Limits	Not specified
Flash Point	Not specified
Auto-ignition Temperature	Not specified
Decomposition Temperature	Not specified
pH Value	<11.5 ¹
Kinematic Viscosity	Not specified
Water Solubility	Insoluble in water
Partition Coefficient: n-octanol/water	Not specified
Vapor Pressure	Not specified
Density and/or Relative Density	1080 kg/m ³
Relative Vapor Density	Not specified
Particle Properties	Applicable only for solid substances

Note: The molar ratio between SiO₂ and M₂O is greater than 2.6, which means classification as an irritant (according to CEFIC recommendations). pH is not relevant for classification of this substance. (M can be Na or K).

9.2. Other information

None.

SAFETY DATA SHEET

Issued: 2024-08-28

Version: 1.6

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Section 10. Stability and Reactivity

10.1 Reactivity

Reacts in contact with acids (gel formation).

10.2 Chemical Stability

Stable under normal use conditions.

10.3 Possibility of Hazardous Reactions

No hazardous reactions expected.

10.4 Conditions to Avoid

No hazardous conditions expected.

10.5 Incompatible Materials

Textiles, leather, and metals may be affected by inorganic silicates.

10.6 Hazardous Decomposition Products

When in contact with certain metals (e.g., aluminum, zinc), hydrogen gas may be formed, which can create an explosive mixture with air.

Section 11. Toxicological Information

11.1 Information on Hazard Classes According to Regulation (EC) No 1272/2008

Test data

Product	Result measure	Estimated Acute Toxicity for the Product (ATEmixture)
Acute oral toxicity	LD50: > 4400 mg/kg	-

Inorganic Silicate (Solution)

Relevant hazard class	Effective dose/concentration	Species	Method	Remarks
a) Acute Toxicity				
Oral	LD50: 1153 mg/kg	Rat	-	H302 Harmful if swallowed
Dermal	LD50: 4640 mg/kg	Rabbit	-	Not classified
b) Skin corrosion/irritation	n/a	-	-	H315 (Causes skin irritation)
c) Serious Eye Damage/Irritation	n/a	-	-	H315 (Causes skin irritation)
d) Respiratory or Skin Sensitization	n/a	-	-	Not classified
e) Germ Cell Mutagenicity	n/a	-	-	Negative (not mutagenic)
f) Carcinogenicity	n/a	-	-	Negative (not carcinogenic)
g) Reproductive Toxicity	n/a	-	-	Negative (not reproductive toxic)

SAFETY DATA SHEET

Issued: 2024-08-28

Version: 1.6

Revised: 2024-12-19

h) Specific Target Organ Toxicity – Single Exposure	n/a	-	-	Not classified
i) Specific Target Organ Toxicity – Repeated Exposure	n/a	-	-	Not classified
j) Aspiration Hazard	n/a	-	-	Not classified

Symptoms and Delayed/Immediate Effects, as well as Chronic Effects from Short- and Long-Term Exposure

Inhalation: Exposure to high mist concentrations may cause irritation to the nose, throat, and coughing.

Skin Contact: May cause redness and irritation upon contact with the skin.

Eye Contact: Splashing into eyes causes severe irritation.

Ingestion: May cause irritation in the mouth and throat.

Other Information

The molar ratio of inorganic silicates ($\text{SiO}_2:\text{M}_2\text{O}$) is >2.6 , classifying the silicate as an irritant.

11.2 Information on Other Hazards

Endocrine-Disrupting Properties:

The mixture does not contain any substances with endocrine-disrupting properties in a concentration exceeding 0.1% by weight.

Section 12. Ecological Information

12.1 Toxicity

Expected not to be harmful to aquatic organisms. Soluble silicates exhibit an acute toxicity above 100 mg/L (regardless of molar ratio and the metal serving as the cation).

12.2 Persistence and Degradability

<i>Inorganic Silicate (Solution)</i>	<i>Result</i>
Aerobic/Anaerobic Degradation	-
Persistence and Degradability	Criteria for biological degradability are not applicable to inorganic substances.

SAFETY DATA SHEET

Issued: 2024-08-28

Version: 1.6

Revised: 2024-12-19

12.3 Bioaccumulative Potential

<i>Inorganic Silicate (Solution)</i>	<i>Result</i>
Log Pow	-
Bioaccumulative Potential	Soluble silicates are completely insoluble in n-octanol. The partition coefficient n-octanol/water is therefore not applicable. Soluble silicates have no bioaccumulative potential.

12.4. Mobility in soil

<i>Inorganic Silicate (Solution)</i>	
Koc	-
Mobility in soil	Solubility in water depends on pH. At pH 11-12, soluble silicates exist as stable solutions of monomeric and polymeric silicate ions. The soluble portion rapidly decreases as pH is lowered to 9. Below pH 9, only a small amount of soluble monomeric silicate ion remains, while the rest forms an insoluble amorphous silica gel.

12.5 Results of PBT and vPvB Assessment

The mixture does **not** contain any substances that meet the criteria for PBT (Persistent, Bioaccumulative, and Toxic) or vPvB (Very Persistent and Very Bioaccumulative) according to Annex XIII (REACH).

12.6 Endocrine-Disrupting Properties

The mixture does **not** contain any substances with endocrine-disrupting properties in a concentration exceeding 0.1% by weight.

12.7 Other Adverse Effects

No information on other adverse effects is available.

Overall Assessment:

The product is **not** classified as environmentally hazardous.

Section 13. Disposal Considerations

13.1 Waste Treatment Methods

Unused and Used Product

Waste Code: 20 01 15 (Explanation: Basic waste).

Classified as hazardous waste (SFS 2020:614, Waste Regulation). If the spill or waste cannot be recycled independently (note: requires a permit), contact an entrepreneur approved by the municipality or county administration.

Note: The classification of waste is the responsibility of the user.

Packaging Handling

Empty (drip-free) packaging is not considered hazardous waste.

Hydratec Scandinavia AB is affiliated with FTI, the company responsible for collection and recycling of used packaging. For local collection inquiries – call FTI at **0200-88 03 10**.

SAFETY DATA SHEET

Issued: 2024-08-28

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Section 14. Transport information

Not classified as dangerous goods according to relevant transport regulations (ADR-S, RID-S, IATA, IMDG).

14.1 UN Number: Not applicable

14.2 Official Transport Name: Not applicable

14.3 Transport Hazard Class: Not applicable

14.4 Packaging Group: Not applicable

14.5 Environmental Hazards: Not applicable

14.6 Special Precautions for User: Not applicable

14.7 Bulk Transport According to IMO Instruments: Not applicable

Section 15. Regulatory Information

15.1 Safety, Health, and Environmental Regulations/Legislation Specific for the Substance or Mixture

National Regulations

AFS 2018:1, Hygienic Limit Values

SFS 2020:614, Waste Regulation

EU Regulations

Regulation (EU) No 1907/2006, REACH Article 59(1), Candidate List:

The mixture **does not** contain any substances listed on the Candidate List.

Regulation (EU) No 1907/2006, REACH Annex XIV (Authorization List):

The mixture **does not** contain any substances listed in Annex XIV.

Regulation (EU) No 1907/2006, REACH Annex XVII (Restriction List):

The mixture **does not** contain any substances subject to restrictions under Annex XVII.

15.2 Chemical Safety Assessment

The supplier has not carried out a chemical safety assessment of the mixture.

Section 16. Other Information

Reference to Key Literature and Data Sources

Classification of contained inorganic silicate:

CEES, Centre Européen d'Etude des Silicates, Soluble Silicates, Chemical, Toxicological, Ecological, and Legal Aspects of Production, Transport, Handling, and Application, March 2019.

Changes Since the Previous Version (Dated 2024-08-28):

Section 1, 16

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