

# Safety Data Sheet

## RHEOCRETE CNI

Revision date : 2009/10/02  
Version: 1.0

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(30338188/SDS\_GEN\_US/EN)

### 1. Product and Company Identification

Company  
BASF Construction Chemicals  
100 Campus Drive  
Florham Park, NJ 07932

24 Hour Emergency Response Information  
CHEMTREC: 1-800-424-9300  
BASF HOTLINE: 1-800-832-HELP

### 2. Hazards Identification

#### Emergency overview

CAUTION:  
HARMFUL IF SWALLOWED.  
Ingestion may cause irritation to mucous membranes.  
May cause skin irritation.  
Avoid contact with the skin, eyes and clothing.  
Wash thoroughly after handling.  
Keep container tightly closed.

State of matter: liquid  
Colour: yellow  
Odour: sweetish

#### Potential health effects

##### **Primary routes of exposure:**

Routes of entry for solids and liquids include eye and skin contact, ingestion and inhalation. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquified gases.

### 3. Composition / Information on Ingredients

<u>CAS Number</u>	<u>Content (W/W)</u>	<u>Chemical name</u>
10124-37-5	>= 10.0 - <= 30.0 %	calcium nitrate

### 4. First-Aid Measures

#### **General advice:**

First aid personnel should pay attention to their own safety. Remove contaminated clothing.

#### **If inhaled:**

If difficulties occur after vapour/aerosol has been inhaled, remove to fresh air and seek medical attention.

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**If on skin:**

After contact with skin, wash immediately with plenty of water and soap. Under no circumstances should organic solvent be used. If irritation develops, seek medical attention.

**If in eyes:**

Wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

**If swallowed:**

Rinse mouth immediately with water. Seek medical attention if necessary. Do not induce vomiting unless told to by a poison control center or doctor.

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## 5. Fire-Fighting Measures

Flash point:

Non-flammable.

Autoignition:

not applicable

**Suitable extinguishing media:**

foam, water spray, dry extinguishing media, carbon dioxide

**Unsuitable extinguishing media for safety reasons:**

water jet

**Hazards during fire-fighting:**

carbon monoxide, carbon dioxide, harmful vapours, nitrogen oxides, fumes/smoke, carbon black

**Protective equipment for fire-fighting:**

Wear a self-contained breathing apparatus.

**Further information:**

The degree of risk is governed by the burning substance and the fire conditions. Contaminated extinguishing water must be disposed of in accordance with official regulations.

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## 6. Accidental release measures

**Personal precautions:**

Use personal protective clothing. Do not breathe vapour/aerosol/spray mists. Handle in accordance with good building materials hygiene and safety practice.

**Environmental precautions:**

Contain contaminated water/firefighting water. Do not discharge into drains/surface waters/groundwater.

**Cleanup:**

For small amounts: Pick up with inert absorbent material (e.g. sand, earth etc.). Dispose of contaminated material as prescribed.

For large amounts: Pump off product.

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## 7. Handling and Storage

**Handling**

**General advice:**

Avoid aerosol formation. Avoid inhalation of mists/vapours. Avoid skin contact. No special measures necessary provided product is used correctly.

**Protection against fire and explosion:**

The product does not contribute to the spreading of flames, nor is it self combustible, not explosive. Take precautionary measures against static discharges.

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### Storage

#### **General advice:**

Keep only in the original container in a cool, well-ventilated place. Protect from direct sunlight. Store protected against freezing.

#### **Temperature tolerance**

Protect from temperatures below: 0 °C

The packed product must be protected from temperatures below the indicated one.

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## 8. Exposure Controls and Personal Protection

### Personal protective equipment

#### **Respiratory protection:**

When workers are facing concentrations above the occupational exposure limits they must use appropriate certified respirators.

#### **Hand protection:**

Wear chemical resistant protective gloves.

#### **Eye protection:**

Safety glasses with side-shields.

#### **Body protection:**

Impermeable protective clothing

#### **General safety and hygiene measures:**

Avoid contact with the skin, eyes and clothing. In order to prevent contamination while handling, closed working clothes and working gloves should be used. Handle in accordance with good building materials hygiene and safety practice. When using, do not eat, drink or smoke. Hands and/or face should be washed before breaks and at the end of the shift. At the end of the shift the skin should be cleaned and skin-care agents applied. Gloves must be inspected regularly and prior to each use. Replace if necessary (e.g. pinhole leaks).

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## 9. Physical and Chemical Properties

Form:	liquid	
Odour:	sweetish, slight odour	
Colour:	yellow	
pH value:	approx. 9.0	( 20 °C)
Freezing point:	approx. -4 °C	
Boiling point:	approx. 108 °C	
	approx. 226 °F	
<i>Information on: water</i>		
Vapour pressure:	23 mbar	( 20 °C)
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Density:	1.29 g/cm <sup>3</sup>	( 20 °C)
Relative density:	approx. 1.29	( 20 °C)
Partitioning coefficient n-octanol/water (log Pow):		The value has not be determined because the substance is inorganic.
Solubility in water:		soluble

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## 10. Stability and Reactivity

#### **Conditions to avoid:**

Avoid extreme temperatures.

#### **Substances to avoid:**

nitrogen oxides

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### Hazardous reactions:

The product is stable if stored and handled as prescribed/indicated.

### Decomposition products:

nitrogen oxides

### Thermal decomposition:

No decomposition if stored and handled as prescribed/indicated.

### Oxidizing properties:

not fire-propagating

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## 11. Toxicological information

### Acute toxicity

*Information on: Calcium nitrite*

*Assessment of acute toxicity:*

*Of moderate toxicity after single ingestion. There is a risk of damage to the blood (methemoglobinemia) after a single uptake of large quantities.*

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### Oral:

*Information on: calcium nitrate*

*Type of value: LD50*

*Species: rat*

*Value: 3,430 mg/kg (BASF-Test)*

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### Repeated dose toxicity

*Information on: calcium nitrate*

*Assessment of repeated dose toxicity:*

*The substance may cause damage to the hematological system after repeated ingestion.*

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## 12. Ecological Information

### Aquatic toxicity

*Information on: Calcium nitrite*

*Assessment of aquatic toxicity:*

*The product has not been tested. The statement has been derived from products of a similar structure and composition.*

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### Fish

*Information on: Calcium nitrite*

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## 13. Disposal considerations

### Waste disposal of substance:

Recommendations: Use excess product in an alternate beneficial application. Do not discharge into drains/surface waters/groundwater. Dispose of in accordance with local authority regulations.

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### Container disposal:

Contaminated packaging should be emptied as far as possible; then it can be passed on for recycling after being thoroughly cleaned.

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## 14. Transport Information

### Land transport USDOT

Not classified as a dangerous good under transport regulations

### Sea transport IMDG

Not classified as a dangerous good under transport regulations

### Air transport IATA/ICAO

Not classified as a dangerous good under transport regulations

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## 15. Regulatory Information

### Federal Regulations

#### Registration status:

Chemical TSCA, US released / listed

OSHA hazard category: No data available.;

EPCRA 311/312 (Hazard categories): Acute; Chronic

#### EPCRA 313:

<u>CAS Number</u>	<u>Chemical name</u>
10124-37-5	calcium nitrate

### State regulations

<u>State RTK</u>	<u>CAS Number</u>	<u>Chemical name</u>
NJ	10124-37-5	calcium nitrate

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## 16. Other Information

### NFPA Hazard codes:

Health : 2 Fire: 0 Reactivity: 0 Special:

### HMIS III rating

Health: 2<sup>+</sup> Flammability: 0 Physical hazard: 0

NFPA and HMIS use a numbering scale ranging from 0 to 4 to indicate the degree of hazard. A value of zero means that the substance possesses essentially no hazard; a rating of four indicates extreme danger. Although similar, the two rating systems are intended for different purposes, and use different criteria. The NFPA system was developed to provide an on-the-spot alert to the hazards of a material, and their severity, to emergency responders. The HMIS system was designed to communicate workplace hazard information to employees who handle hazardous chemicals.

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BASF supports worldwide Responsible Care® initiatives. We value the health and safety of our employees, customers, suppliers and neighbors, and the protection of the environment. Our commitment to Responsible Care is integral to conducting our business and operating our facilities in a safe and environmentally responsible fashion, supporting our customers and suppliers in ensuring the safe and environmentally sound handling of our products, and minimizing the impact of our operations on society and the environment during production, storage, transport, use and disposal of our products.

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### Local Contact Information

BASF Construction Chemicals  
bcc\_prps@basf.com

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