

# Safety data sheet

## POZZUTEC 20<sup>®</sup> PLUS

Revision date : 2009/05/05  
Version: 1.0

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(30368199/SDS\_GEN\_US/EN)

### 1. Substance/preparation 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. Composition/information on ingredients

<u>CAS Number</u>	<u>Content (W/W)</u>	<u>Chemical name</u>
13477-34-4	15.0 - 40.0 %	Calcium nitrate tetrahydrate

### 3. Hazard identification

**Emergency overview**

CAUTION: MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION.

Ingestion may cause irritation to mucous membranes.

Avoid contact with the skin, eyes and clothing.

Wash thoroughly after handling.

Keep container tightly closed.

**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.

**Acute toxicity:**

*Information on: Calcium nitrate tetrahydrate*

*Of low toxicity after single ingestion.*

*Virtually nontoxic after a single skin contact.*

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

**Irritation:**

The product has not been tested. The statement has been derived from the properties of the individual components.

**Repeated dose toxicity:**

*Information on: Calcium nitrate tetrahydrate*

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

**Potential environmental effects**

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### **Aquatic toxicity:**

At the present state of knowledge, no negative ecological effects are expected.

There is a high probability that the product is not acutely harmful to aquatic organisms.

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

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## 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.

### **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:**

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

### **If swallowed:**

Rinse mouth immediately and then drink plenty of water, seek medical attention. Do not induce vomiting unless told to by a poison control center or doctor.

### **Note to physician**

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

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## 5. Fire-fighting measures

Flash point:

Non-flammable.

Autoignition:

not applicable

Lower explosion limit:

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:**

Product itself is non-combustible; fire extinguishing method of surrounding areas must be considered. 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.

### **NFPA Hazard codes:**

Health : 1      Fire: 0      Reactivity: 0      Special:

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### 6. Accidental release measures

**Personal precautions:**

Use personal protective clothing. Do not breathe vapour/aerosol/spray mists. Sources of ignition should be kept well clear. 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 substance/product is non-combustible. The product does not contribute to the spreading of flames, nor is it self combustible, not explosive. Take precautionary measures against static discharges.

**Storage**

**General advice:**

Keep only in the original container in a cool, dry, well-ventilated place away from ignition sources, heat or flame. Protect from direct sunlight. Store protected against freezing.

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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:	slight odour	
Colour:	brown	
pH value:	3.5 - 6.5	
Boiling point:	105 °C	
Vapour pressure:		No data available.
Density:	approx. 1.35 g/cm <sup>3</sup>	
Vapour density:		Heavier than air.
Partitioning coefficient n-octanol/water (log Pow):		No data available.
Viscosity, dynamic:		No data available.
Solubility in water:		soluble

### 10. Stability and reactivity

**Conditions to avoid:**  
Avoid extreme temperatures.

**Substances to avoid:**  
strong acids, strong bases, strong oxidizing agents

**Hazardous reactions:**  
The product is stable if stored and handled as prescribed/indicated.

**Decomposition products:**  
oxides, carbon oxides, nitrogen oxides

**Thermal decomposition:**  
No decomposition if stored and handled as prescribed/indicated.

### 11. Toxicological information

#### Chronic toxicity

#### **Carcinogenicity:**

*Information on: Calcium nitrate tetrahydrate*

*In long-term studies in rats and mice in which the substance was given by drinking-water, a carcinogenic effect was not observed.*

*In long-term studies in rats and mice in which the substance was given by feed, a carcinogenic effect was not observed.*

*Under certain conditions nitrites can enhance the formation of nitrosamines in vivo. Nitrosamines are carcinogenic in animal studies.*

#### **Other information:**

Based on our experience and the information available, no adverse health effects are expected if handled as recommended with suitable precautions for designated uses.

The product has not been tested. The statements on toxicology have been derived from products of a similar structure and composition.

### 12. Ecological information

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### Environmental toxicity

**Other ecotoxicological advice:**  
Ecological data are not available.

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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.

### **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:**

TSCA, US released / listed

**OSHA hazard category:** No data available.

**SARA hazard categories (EPCRA 311/312):** Acute

**SARA 313:**

#### CAS Number

13477-34-4

#### Chemical name

Calcium nitrate tetrahydrate

### State regulations

**State RTK**

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<u>CAS Number</u>	<u>Chemical name</u>	<u>State RTK</u>
13477-34-4	Calcium nitrate tetrahydrate	NJ

**CA Prop. 65:**

THIS PRODUCT CONTAINS A CHEMICAL(S) KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER AND BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.

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### 16. Other information

**HMIS III rating**

Health: 1      Flammability: 0      Physical hazard: 0

HMIS uses 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 high hazard.

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**Local contact information**

BASF Construction Chemicals  
bcc\_prps@basf.com

POZZUTEC 20 END OF DATA SHEET