

# Safety data sheet

## EMACO S88 CI

Revision date : 2009/07/14  
Version: 1.0

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(30337743/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>
14808-60-7	40.0 - 70.0 %	crystalline silica
65997-15-1	15.0 - 40.0 %	Cement, portland, chemicals
1309-37-1	3.0 - 7.0 %	Iron oxide
1305-78-8	1.0 - 5.0 %	calcium oxide
112945-52-5	1.0 - 5.0 %	Silica
7778-18-9	1.0 - 5.0 %	Calcium sulphate
1309-48-4	0.5 - 1.5 %	magnesium oxide
1317-65-3	0.5 - 1.5 %	Limestone

### 3. Hazard identification

#### Emergency overview

WARNING: CONTAINS MATERIAL WHICH CAN CAUSE CANCER.  
MAY BE HARMFUL IF INHALED.  
MAY CAUSE ALLERGIC SKIN REACTION.  
Can cause moderate irritation due to abrasive action.  
In combination with water, repeated or prolonged dermal exposure can cause moderate to severe alkali burns.  
Keep container tightly closed.  
Avoid inhalation of dusts.  
Avoid ingestion.  
Avoid contact with the skin, eyes and clothing.  
Wash thoroughly after handling.

#### 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:**

No data available.

##### **Irritation:**

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

*Information on: calcium oxide*

*Corrosive! Damages skin and eyes.*

**Repeated dose toxicity:**

*Information on: Iron oxide*

*Chronic exposures have been known to produce pneumoconiosis (chronic inflammatory and fibrotic lung disease).*

*The substance may cause increase in lung mass and lung tissue changes after repeated inhalation.*

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

*Information on: crystalline silica*

*This product may contain greater than 0.1% crystalline silica.*

*Repeated exposure to high concentrations results in silicosis, a lung disease characterized by coughing, difficult breathing, wheezing, scarring of the lungs, and repeated, non-specific chest illnesses.*

### **Potential environmental effects**

**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

**If inhaled:**

After inhalation of dust. Keep patient calm, remove to fresh air. If difficulties occur: Obtain 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:**

Flush with copious amounts of water for at least 15 minutes.

**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.

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## 5. Fire-fighting measures

Self-ignition temperature:

not self-igniting

**Suitable extinguishing media:**

foam, water spray, dry extinguishing media, carbon dioxide

**Unsuitable extinguishing media for safety reasons:**

water jet

**Hazards during fire-fighting:**

carbon dioxide, carbon monoxide, 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:

Avoid dust formation. Avoid contact with skin and eyes. Use personal protective clothing. 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:

Avoid raising dust.

For small amounts: Pick up with suitable appliance and dispose of. Dispose of absorbed material in accordance with regulations.

For large amounts: Pick up with suitable appliance and dispose of. Dispose of absorbed material in accordance with regulations.

### 7. Handling and storage

#### Handling

##### General advice:

Avoid dust formation. Avoid inhalation of dusts. Avoid skin contact. Pour downwind and allow as little free fall as possible while emptying bags into equipment. Breathing must be protected when large quantities are decanted without local exhaust ventilation.

##### Protection against fire and explosion:

Prevent electrostatic charge - sources of ignition should be kept well clear - fire extinguishers should be kept handy. Keep away from sources of ignition - No smoking. Dust can form an explosive mixture with air.

#### Storage

##### Storage incompatibility:

General: Segregate from metals. Segregate from acids. Segregate from lyes. Segregate from oxidants. Segregate from foods and animal feeds.

### 8. Exposure controls and personal protection

#### Components with workplace control parameters

crystalline silica	OSHA	TWA value 2.4 millions of particles per cubic foot of air Respirable ; TWA value 0.1 mg/m3 Respirable ; TWA value 0.3 mg/m3 Total dust ;
Cement, portland, chemicals	ACGIH	TWA value 0.025 mg/m3 Respirable fraction ;
	OSHA	PEL 5 mg/m3 Respirable fraction ; PEL 15 mg/m3 Total dust ;
Iron oxide	ACGIH	TWA value 10 mg/m3 ;
	OSHA	PEL 10 mg/m3 fumes/smoke ;
calcium oxide	ACGIH	TWA value 5 mg/m3 Respirable fraction ;
	OSHA	PEL 5 mg/m3 ;
Calcium sulphate	ACGIH	TWA value 2 mg/m3 ;
	OSHA	PEL 5 mg/m3 Respirable fraction ; PEL 15 mg/m3 Total dust ;
magnesium oxide	ACGIH	TWA value 10 mg/m3 Inhalable fraction ;
	OSHA	PEL 15 mg/m3 Total particulate ;
Limestone	ACGIH	TWA value 10 mg/m3 Inhalable fraction ;
	OSHA	PEL 5 mg/m3 Respirable fraction ; PEL 15 mg/m3 Total dust ;

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### Personal protective equipment

#### **Respiratory protection:**

Wear respiratory protection if ventilation is inadequate.

#### **Hand protection:**

Chemical resistant protective gloves, Manufacturer's directions for use should be observed because of great diversity of types.

#### **Eye protection:**

Tightly fitting safety goggles (chemical goggles).

#### **Body protection:**

Body protection must be chosen based on level of activity and exposure.

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

Avoid contact with the skin, eyes and clothing. Avoid inhalation of dusts. 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:	powder	
Odour:	odourless	
Colour:	grey	
pH value:		of very low solubility, alkaline
Bulk density:	1,800 - 2,400 kg/m <sup>3</sup>	
Partitioning coefficient n-octanol/water (log Pow):		The value has not been determined because the substance is inorganic.
Solubility in water:		slightly soluble

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## 10. Stability and reactivity

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

Avoid dust formation.

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

strong acids, strong bases, strong oxidizing agents

#### **Hazardous reactions:**

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

#### **Oxidizing properties:**

not fire-propagating

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## 11. Toxicological information

### Chronic toxicity

#### **Carcinogenicity:**

Information on: *crystalline silica*

The International Agency for Research on Cancer (IARC) has classified this substance as a Group 1 (known human carcinogen).

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### 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.

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## 12. Ecological information

### Environmental toxicity

#### Other ecotoxicological advice:

Ecological data are not available.

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## 13. Disposal considerations

### Waste disposal of substance:

Dispose of in accordance with national, state and local regulations.

Recommendations: Use excess product in an alternate beneficial application.

### 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:

IARC 1, 2A or 2B carcinogen, NTP listed carcinogen, Chronic target organ effects reported, OSHA PEL established, ACGIH TLV established

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

### State regulations

#### State RTK

<u>CAS Number</u>	<u>Chemical name</u>	<u>State RTK</u>
14808-60-7	crystalline silica	MA, NJ, PA
65997-15-1	Cement, portland, chemicals	MA, NJ, PA
1309-37-1	Iron oxide	MA, NJ, PA
1305-78-8	calcium oxide	MA, NJ, PA
112945-52-5	Silica	MA, NJ, PA
7778-18-9	Calcium sulphate	MA, PA
1309-48-4	magnesium oxide	MA, NJ, PA
1317-65-3	Limestone	MA, PA

#### **CA Prop. 65:**

THIS PRODUCT CONTAINS A CHEMICAL(S) KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER.

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## 16. Other information

#### **HMIS III rating**

Health: 3<sup>+</sup>      Flammability: 0      Physical hazard: 1

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

END OF DATA SHEET