

Safety data sheet

SET 45

Revision date : 2009/06/17
Version: 2.0

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(30368387/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	60.0 - 100.0 %	crystalline silica
1309-48-4	7.0 - 13.0 %	magnesium oxide
68131-74-8	10.0 - 30.0 %	Ashes (residues)
10043-35-3	0.1 - 1.0 %	boric acid

3. Hazard identification

Emergency overview

WARNING: CONTAINS MATERIAL WHICH CAN CAUSE CANCER.
MAY BE HARMFUL IF INHALED.
Contains a suspected reproductive toxin.
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:

The product has not been tested. The statement has been derived from the properties of the individual components. Contact with the eyes or skin may cause mechanical irritation. The Cement contained in this product reacts alkaline when in contact with water or humidity. This may cause severe irritation of skin or mucous membranes. The humidity of the skin or mucous membranes is enough for this reaction.

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Repeated dose toxicity:

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

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.

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.

5. Fire-fighting measures

Flash point:

The substance/product is non-combustible.

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.

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.

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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 ;
magnesium oxide	ACGIH OSHA ACGIH	TWA value 0.025 mg/m3 Respirable fraction ; PEL 15 mg/m3 Total particulate ; TWA value 10 mg/m3 Inhalable fraction ;
boric acid	ACGIH	TWA value 2 mg/m3 ; STEL value 6 mg/m3 ; TWA value 2 mg/m3 Inhalable fraction ; STEL value 6 mg/m3 Inhalable fraction ;

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

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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).

9. Physical and chemical properties

Form:	powder	
Odour:	odourless	
Colour:	grey	
Melting point:		The product has not been tested.
Density:		No data available.
Viscosity, dynamic:		No data available.
Solubility in water:		slightly soluble

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.

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.

Reproductive toxicity:

Information on: boric acid

Causes impairment of fertility in laboratory animals.

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

Environmental toxicity

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Other ecotoxicological advice:
Ecological data are not available.

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.

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

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

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

State regulations

State RTK

CAS Number
14808-60-7
1309-48-4

Chemical name
crystalline silica
magnesium oxide

State RTK
MA, NJ, PA
MA, NJ, 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: 2 \square 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.

Local contact information

BASF Construction Chemicals
bcc_prps@basf.com

END OF DATA SHEET