BASF
The Chemical Company

Safety data sheet
TEGRAPROOF GRAY

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

CAS Number	Content (W/W)	Chemical name
65997-15-1	30.0 - 60.0 %	Cement, portland, chemicals
14808-60-7	15.0 - 40.0 %	crystalline silica
1309-37-1	3.0 - 7.0 %	Iron oxide
1317-65-3	3.0 - 7.0 %	Limestone
7778-18-9	1.0 - 5.0 %	Calcium sulphate
13463-67-7	1.0 - 5.0 %	Titanium dioxide
1305-78-8	1.0 - 5.0 %	calcium oxide
1309-48-4	1.0 - 5.0 %	magnesium oxide

3. Hazard identification

Emergency overview

WARNING: MAY BE HARMFUL IF INHALED.
CONTAINS MATERIAL WHICH CAN CAUSE CANCER.
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:
Contact with powders or dusts may irritate the eyes, skin and respiratory tract. Mechanical rubbing may increase skin irritation. Contact with moist skin may cause burns.

Repeated dose toxicity:
Information on: Titanium dioxide
Repeated oral uptake of the substance did not cause substance-related effects.
Repeated inhalative uptake of the substance did not cause substance-related effects.
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.

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.
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.

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

Cement, portland, chemicals	OSHA	PEL 5 mg/m3 Respirable fraction ; PEL 15 mg/m3 Total dust ;
	ACGIH	TWA value 10 mg/m3 ;
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 ;
	ACGIH	TWA value 0.025 mg/m3 Respirable fraction ;
Iron oxide	OSHA	PEL 10 mg/m3 fumes/smoke ;
	ACGIH	TWA value 5 mg/m3 Respirable fraction ;
Limestone	OSHA	PEL 5 mg/m3 Respirable fraction ; PEL 15 mg/m3 Total dust ;
Calcium sulphate	OSHA	PEL 5 mg/m3 Respirable fraction ; PEL 15 mg/m3 Total dust ;
	ACGIH	TWA value 10 mg/m3 Inhalable fraction ;
Titanium dioxide	OSHA	PEL 15 mg/m3 Total dust ;
	ACGIH	TWA value 10 mg/m3 ;
calcium oxide	OSHA	PEL 5 mg/m3 ;
	ACGIH	TWA value 2 mg/m3 ;
magnesium oxide	OSHA	PEL 15 mg/m3 Total particulate ;
	ACGIH	TWA value 10 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 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:	No data available.	
Colour:	grey	
Melting point:		Unspecified
Relative density:	1.68	
Bulk density:	1,800 - 2,400 kg/m3	
Partitioning coefficient n-octanol/water (log Pow):		not applicable
Viscosity, dynamic:		No data available.

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:
Based on its structural properties the product is not classified as oxidizing.

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.
Information on: Titanium dioxide
IARC (International Agency for Research on Cancer) has classified this substance as group 2B (The agent is possibly carcinogenic to humans).
In long-term studies in rats in which the substance was given by inhalation, a carcinogenic effect was observed.
Tumors were only observed in rats after chronic inhalative exposure to high concentrations which caused sustained lung inflammation.
In long-term studies in rats and mice in which the substance was given by feed, a carcinogenic effect was not observed.
Dermal exposure is not expected to be carcinogenic.

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

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	Chemical name	State RTK
65997-15-1	Cement, portland, chemicals	MA, NJ, PA
14808-60-7	crystalline silica	MA, NJ, PA
1309-37-1	Iron oxide	MA, NJ, PA
1317-65-3	Limestone	MA, PA
7778-18-9	Calcium sulphate	MA, PA
13463-67-7	Titanium dioxide	MA, NJ, PA
1305-78-8	calcium oxide	MA, NJ, PA
1309-48-4	magnesium oxide	MA, NJ, PA

CA Prop. 65:
THIS PRODUCT CONTAINS A CHEMICAL(S) KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER.

16. Other information

HMIS III rating
Health: 2¤ 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