

# Safety Data Sheet

## THOROSEAL GRAY

Revision date : 2009/10/27

Version: 1.0

Page: 1/7

(261427/SDS\_GEN\_US/EN)

### 1. Product and Company Identification

Company  
BASF CORPORATION  
100 Campus Drive  
Florham Park, NJ 07932, USA

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

### 2. Hazards Identification

#### Emergency overview

WARNING:  
CONTAINS MATERIAL WHICH CAN CAUSE CANCER.  
MAY BE HARMFUL IF INHALED.  
RISK OF SERIOUS DAMAGE TO EYES.  
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.

State of matter: solid  
Colour: various colours  
Odour: earthy

#### 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.

##### **Sensitization:**

Chromate in this product has been reduced. Sensitization due to chromate within stated shelf-life is unlikely.

#### Potential environmental effects

##### **Aquatic toxicity:**

The product gives rise to pH shifts.

##### **Degradation / environmental fate:**

Inorganic product which cannot be eliminated from water by biological purification processes. The product is slightly soluble in water. It can be largely eliminated from the water by abiotic processes, e.g. mechanical separation.

# Safety Data Sheet

## THOROSEAL GRAY

Revision date : 2009/10/27  
Version: 1.0

Page: 2/7  
(261427/SDS\_GEN\_US/EN)

### 3. Composition / Information on Ingredients

| <u>CAS Number</u> | <u>Content (W/W)</u> | <u>Chemical name</u>        |
|-------------------|----------------------|-----------------------------|
| 13463-67-7        | >= 0.1 - <= 1.0 %    | Titanium dioxide            |
| 14808-60-7        | >= 30.0 - <= 60.0 %  | crystalline silica          |
| 65997-15-1        | >= 30.0 - <= 60.0 %  | Cement, portland, chemicals |

### 4. First-Aid Measures

**General advice:**

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

**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:**

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

**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

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 monoxide, carbon dioxide, harmful vapours  
Evolution of fumes/fog. The substances/groups of substances mentioned can be released in case of fire.

**Protective equipment for fire-fighting:**

Wear self-contained breathing apparatus and chemical-protective clothing.

**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. Dispose of fire debris and contaminated extinguishing water 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.

# Safety Data Sheet

## THOROSEAL GRAY

Revision date : 2009/10/27  
Version: 1.0

Page: 3/7  
(261427/SDS\_GEN\_US/EN)

### Environmental precautions:

No special precautions necessary.

Do not discharge into drains/surface waters/groundwater.

### Cleanup:

Avoid raising dust.

For small amounts: Pick up with suitable appliance and dispose of.

For large amounts: Pick up with suitable appliance and dispose of. Pack in tightly closed containers for disposal.

For residues: Rinse with plenty of water.

## 7. Handling and Storage

### Handling

#### General advice:

Avoid dust formation. 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. Prolonged direct contact to the dry product should be avoided therefore. 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:

No special precautions necessary.

### Storage

#### General advice:

Containers should be stored tightly sealed in a dry place.

#### Storage incompatibility:

General advice: 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 ;<br>The value is calculated from a specified equation using a value of 100%. Lower values of % will give higher exposure limits. See regulation for specific equation.<br>TWA value 0.1 mg/m3 Respirable ;<br>The value is calculated from a specified equation using a value of 100%. Lower values of % will give higher exposure limits. See regulation for specific equation.<br>TWA value 0.3 mg/m3 Total dust ;<br>The value is calculated from a specified equation using a value of 100%. Lower values of % will give higher exposure limits. See regulation for specific equation. |
| Cement, portland, chemicals | ACGIH<br>OSHA<br>ACGIH | TWA value 0.025 mg/m3 Respirable fraction ;<br>PEL 5 mg/m3 Respirable fraction ; PEL 15 mg/m3 Total dust ;<br>TWA value 10 mg/m3 ;<br>The value is for particulate matter containing no asbestos and <1% crystalline silica.   |
| Titanium dioxide            | OSHA<br>ACGIH          | PEL 15 mg/m3 Total dust ;<br>TWA value 10 mg/m3 ;  |

# Safety Data Sheet

## THOROSEAL GRAY

Revision date : 2009/10/27  
Version: 1.0

Page: 4/7  
(261427/SDS\_GEN\_US/EN)

### Advice on system design:

Provide local exhaust ventilation to maintain recommended P.E.L.

### Personal protective equipment

#### Respiratory protection:

Breathing protection if dusts are formed.

#### 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:               | earthy                             |                    |
| Colour:              | various colours                    |                    |
| Melting point:       |                                    | No data available. |
| Bulk density:        | 1,800 - 2,400<br>kg/m <sup>3</sup> |                    |
| Viscosity, dynamic:  |                                    | No data available. |
| Solubility in water: |                                    | not available      |

---

## 10. Stability and Reactivity

### Conditions to avoid:

Avoid dust formation. Avoid humidity.

### Substances to avoid:

strong acids

### Hazardous reactions:

The product is stable if stored and handled as prescribed/indicated.  
Strong bases are formed on the addition of water.

### Oxidizing properties:

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

---

## 11. Toxicological information

### Irritation / corrosion

*Information on: crystalline silica*

*Assessment of irritating effects:*

# Safety Data Sheet

## THOROSEAL GRAY

Revision date : 2009/10/27  
Version: 1.0

Page: 5/7  
(261427/SDS\_GEN\_US/EN)

*Not irritating to the skin. The product has not been tested. The statement has been derived from products of a similar structure and composition. May cause slight irritation to the eyes.*  
-----

### **Skin:**

Result: Irritant.

### **Eye:**

Result: Risk of serious damage to eyes.

### **Repeated dose toxicity**

*Information on: crystalline silica*

*Assessment of repeated dose toxicity:*

*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.*  
-----

### **Carcinogenicity**

*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.*

*Information on: crystalline silica*

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

### **Experiences in humans:**

*Information on: crystalline silica*

*May cause silicosis.*  
-----

---

## **12. Ecological Information**

### **Aquatic invertebrates**

Acute:

static

Daphnia magna/LC50 (48 h): > 100 mg/l

### **Aquatic plants**

Toxicity to aquatic plants:

static

green algae/EC50 (96 h): > 100 mg/l

### **Soil living organisms**

Toxicity to soil dwelling organisms:

other soil dwelling arthropod/LC50 (10 d): 9,931 mg/kg

### **Other adverse effects:**

# Safety Data Sheet

## THOROSEAL GRAY

Revision date : 2009/10/27  
Version: 1.0

Page: 6/7  
(261427/SDS\_GEN\_US/EN)

Do not discharge product into the environment without control.

---

### 13. Disposal considerations

**Waste disposal of substance:**

Dispose of in accordance with local authority regulations. Do not discharge into drains/surface waters/groundwater.

**Container disposal:**

Completely emptied packagings can be given for recycling.

---

### 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:**

Chemical TSCA, US released / listed

**OSHA hazard category:**

IARC 1, 2A or 2B carcinogen; NTP listed carcinogen; Chronic target organ effects reported; Acute target organ effects reported; OSHA PEL established; ACGIH TLV established; Skin and/or eye irritant

**EPCRA 311/312 (Hazard categories):**

Acute; Chronic

**State regulations**

**State RTK**

MA, NJ, PA  
MA, NJ, PA  
MA, NJ, PA

**CAS Number**

13463-67-7  
14808-60-7  
65997-15-1

**Chemical name**

Titanium dioxide  
crystalline silica  
Cement, portland, chemicals

**CA Prop. 65:**

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

# Safety Data Sheet

## THOROSEAL GRAY

Revision date : 2009/10/27  
Version: 1.0

Page: 7/7  
(261427/SDS\_GEN\_US/EN)

---

### 16. Other Information

#### HMIS III rating

Health: 2<sup>+</sup>      Flammability: 1      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.

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.

---

#### Local Contact Information

BASF Construction Chemicals  
bcc\_prps@basf.com

IMPORTANT: WHILE THE DESCRIPTIONS, DESIGNS, DATA AND INFORMATION CONTAINED HEREIN ARE PRESENTED IN GOOD FAITH AND BELIEVED TO BE ACCURATE, IT IS PROVIDED FOR YOUR GUIDANCE ONLY. BECAUSE MANY FACTORS MAY AFFECT PROCESSING OR APPLICATION/USE, WE RECOMMEND THAT YOU MAKE TESTS TO DETERMINE THE SUITABILITY OF A PRODUCT FOR YOUR PARTICULAR PURPOSE PRIOR TO USE. NO WARRANTIES OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE MADE REGARDING PRODUCTS DESCRIBED OR DESIGNS, DATA OR INFORMATION SET FORTH, OR THAT THE PRODUCTS, DESIGNS, DATA OR INFORMATION MAY BE USED WITHOUT INFRINGING THE INTELLECTUAL PROPERTY RIGHTS OF OTHERS. IN NO CASE SHALL THE DESCRIPTIONS, INFORMATION, DATA OR DESIGNS PROVIDED BE CONSIDERED A PART OF OUR TERMS AND CONDITIONS OF SALE. FURTHER, YOU EXPRESSLY UNDERSTAND AND AGREE THAT THE DESCRIPTIONS, DESIGNS, DATA, AND INFORMATION FURNISHED BY BASF HEREUNDER ARE GIVEN GRATIS AND BASF ASSUMES NO OBLIGATION OR LIABILITY FOR THE DESCRIPTION, DESIGNS, DATA AND INFORMATION GIVEN OR RESULTS OBTAINED, ALL SUCH BEING GIVEN AND ACCEPTED AT YOUR RISK.  
END OF DATA SHEET