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(30367938/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
Can cause moderate irritation due to abrasive action
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: grey Odour: odourless

## 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:

Product may present a nuisance dust hazard Inhalation of dust may cause respiratory tract irritation, coughing and breathing difficulties

Irritation / corrosion:

Causes temporary irritation of the respiratory tract. Skin contact causes irritation. May cause severe damage to the eyes. The product has not been tested. The statement has been derived from products of a similar structure or composition.

Sensitization:

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

Chronic toxicity:

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Repeated dose toxicity: After repeated exposure the prominent effect is local irritation. The product has not been tested. The statement has been derived from the properties of the individual components.

**Teratogenicity:** The chemical structure does not suggest such an effect. The product has not been tested. The statement has been derived from the properties of the individual components.

**Genotoxicity:** The chemical structure does not suggest a specific alert for such an effect. The product has not been tested. The statement has been derived from the properties of the individual components.

#### Signs and symptoms of overexposure:

Eye irritation, skin irritation, irritation of the mucous membranes

#### 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.

## 3. Composition / Information on Ingredients

CAS Number	Content (W/W)	Chemical name
14808-60-7	>= 40.0 - <= 70.0 %	
65997-15-1	>= 30 0 - <= 60.0 %	Cement, portland, chemicals
1305-78-8	>= 10 - <= 50 %	calcium oxide
112945-52-5	>= 10 - <= 50 %	Silica
13397-24-5	>= 10 - <= 50 %	Gypsum (Ca(SO4) 2H2O)
1317-65-3	>= 0 5 - <= 1.5 %	Limestone

### 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

Flash point:

Non-flammable

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Flammability:

does not ignite

Suitable extinguishing media:

foam, water spray, dry powder, 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

Product is not combustible or explosive. No particular hazards known

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.

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:

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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	narameters
COMPONENTS	AAGGG	WOINDIGO	COLICION	paramotoro

Cement, portland, chemicals

**OSHA** 

PEL 5 mg/m3 Respirable fraction ; PEL 15 mg/m3

Total dust ;

**ACGIH** 

TWA value 1 mg/m3 Respirable fraction;

The value is for particulate matter containing no asbestos

and <1% crystalline silica

calcium oxide

**OSHA** 

PEL 5 mg/m3;

Respirable

**ACGIH** 

TWA value 2 mg/m3;

crystalline silica **OSHA**  TWA value 2.4 millions of particles per cubic foot of air

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.

TWA value 0.1 mg/m3 Respirable

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. TWA value 0.3 mg/m3 Total dust ;

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 OSHA** 

**ACGIH** 

TWA value 0.025 mg/m3 Respirable fraction ;

PEL 5 mg/m3 Respirable fraction; PEL 15 mg/m3

Total dust ; TWA value 1 mg/m3 Respirable fraction ;

The value is for particulate matter containing no asbestos

and <1% crystalline silica.

calcium oxide

OSHA **ACGIH**  PEL 5 mg/m3;

Gypsum (Ca(SO4) 2H2O)

TWA value 2 mg/m3;

OSHA

PEL 5 mg/m3 Respirable fraction; PEL 15 mg/m3

Total dust

**ACGIH** 

TWA value 10 mg/m3 Inhalable fraction ;

Limestone OSHA PEL 5 mg/m3 Respirable fraction ; PEL 15 mg/m3

Total dust :

Silica

**OSHA** 

listed

TWA value 20 millions of particles per cubic foot of air ;

TWA value 0.8 mg/m3 :

The exposure limit is calculated from the equation, 80/(%SiO2), using a value of 100% SiO2. Lower percentages of SiO2 will yield higher exposure limits

#### 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

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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 odourless

Odour:

grey

Colour: pH value:

approx. 12 - 13

(as aqueous suspension)

Melting point:

Bulk density:

approx 1,800 -

2,400 kg/m3

Partitioning coefficient

v)·

not applicable

not applicable

n-octanol/water (log Pow): Solubility in water:

Solubility in water: Miscibility with water: (20 °C) dispersible (20 °C) not soluble

# 10. Stability and Reactivity

#### Conditions to avoid:

Avoid dust formation. Avoid humidity

#### Substances to avoid:

strong acids

strong bases, strong acids

#### Hazardous reactions:

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

Strong bases are formed on the addition of water

#### **Decomposition products:**

No hazardous decomposition products if stored and handled as prescribed/indicated

#### Corrosion to metals:

No corrosive effect on metal

# 11. Toxicological information

#### Acute toxicity

Information on: calcium oxide
Assessment of acute toxicity:
The toxicity of the product is based on its corrosivity.
Of moderate toxicity after single ingestion.

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#### Irritation / corrosion

Information on: Cement, portland, chemicals Assessment of irritating effects: Skin contact causes irritation. May cause severe damage to the eyes

Information on: calcium oxide Assessment of irritating effects: Corrosive! Damages skin and eyes.

### Carcinogenicity

Information on: crystalline silica
The International Agency for Research on Cancer (IARC) has classified this substance as a Group 1 (known)
human carcinogen.
NTP listed carcinogen

#### 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

Degradability / Persistence Biological / Abiological Degradation

Evaluation:

Experience shows this product to be inert and non-degradable.

#### Other adverse effects:

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

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Sea transport

**IMDG** 

Not classified as a dangerous good under transport regulations

Air transport

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; OSHA PEL established; ACGIH TLV established

EPCRA 311/312 (Hazard categories):

Acute; Chronic

CERCLA RQ

CAS Number

Chemical name

5000 LBS 100 LBS 91-22-5 50-00-0; 75-56-9; quinoline Formaldehyde; Propylene oxide; naphthalene

91-20-3

#### State regulations

State RTK	CAS Number	Chemical name
MA, NJ, PA	14808-60-7	crystalline silica
MA, NJ, PA	65997-15-1	Cement, portland, chemicals
MA. NJ. PA	1305-78-8	calcium oxide
MA. PA	112945-52-5	Silica
NJ, PA	13397-24-5	Gypsum (Ca(SO4).2H2O)

#### 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: 1¤

Flammability: 0

Physical hazard: 1

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

We support 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

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