1. Substance/preparation 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. Composition/information on ingredients

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Content (W/W)</th>
<th>Chemical name</th>
</tr>
</thead>
<tbody>
<tr>
<td>1317-65-3</td>
<td>&gt; 10.0 - &lt; 30.0 %</td>
<td>Limestone</td>
</tr>
<tr>
<td>13463-67-7</td>
<td>&gt; 1.0 - &lt; 5.0 %</td>
<td>titanium dioxide</td>
</tr>
<tr>
<td>14808-60-7</td>
<td>&gt; 1.0 - &lt; 5.0 %</td>
<td>crystalline silica</td>
</tr>
<tr>
<td>50-00-0</td>
<td>&gt; 0.001 - &lt; 0.01 %</td>
<td>Formaldehyde</td>
</tr>
<tr>
<td>71-43-2</td>
<td>&lt; 10.0 PPM</td>
<td>Benzene</td>
</tr>
<tr>
<td>1333-86-4</td>
<td>&gt; 0.01 - &lt; 0.1 %</td>
<td>carbon black</td>
</tr>
</tbody>
</table>

3. Hazard identification

Emergency overview
CAUTION: MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION.
HARMFUL IF INHALED.
Contains a known carcinogen.
Overexposure may cause CNS depression, blurred vision, dizziness and drowsiness.
ASPIRATION HAZARD

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:
Ingestion may cause gastrointestinal disturbances.

Information on: Formaldehyde
Formaldehyde is highly irritating to the upper respiratory tract and eyes, nose, throat and lungs. Repeated exposure may lead to sensitization in some individuals. Formaldehyde overexposure can cause symptoms of bronchial asthma, either by direct irritation or sensitization. Inhalation may cause irritation to the respiratory tract, breathing difficulties, coughing, CNS effects, pneumonitis and pulmonary edema.

Information on: Carbon black
No data available.
Aktivkennzeichen entfernt 15.11.05 (He)

Information on: Benzene
Ingestion or inhalation of benzene results in symptoms of narcosis, including headache, dizziness, and CNS stimulation and depression. Aspiration into the lungs can cause acute hemorrhagic pneumonitis which may be fatal. Dermal sensitization and cardiac sensitization have been known to occur in animals.

Irritation:
Irritating to respiratory system. Irritating to eyes and skin.

Sensitization:
The chemical structure suggests a sensitizing effect. The product has not been tested. The statement has been derived from products of a similar structure and composition.

Repeated dose toxicity:
No known chronic effects.

Information on: Titanium dioxide
In a National Cancer Institute (NCI) feeding study, titanium dioxide was not carcinogenic to rats or mice at maximum tolerated doses. In another study, TiO2 caused fibrosis and lung cancer in rats exposed to 250 mg/m3 by inhalation. However, no effects were seen at lower airborne concentrations.

Information on: Silica crystalline
Overexposure to crystalline silica results in silicosis, a lung disease characterized by coughing, difficult breathing, wheezing, scarring of the lungs, and repeated, non-specific chest illnesses. The International Agency for Research on Cancer (IARC) has classified crystalline silica in Group 1 (those agents with evidence of carcinogenicity to humans) and National Toxicology Program (NTP) has included it in its Annual Report on Carcinogens.

Information on: Formaldehyde
The International Agency for Research on Cancer (IARC) has classified formaldehyde as a Group 1 (known) human carcinogen based on epidemiological evidence linking formaldehyde exposure to occurrence of nasopharyngeal cancer.
NTP listed carcinogen
The use of products that contain or liberate formaldehyde is regulated under the OSHA Formaldehyde Standard (see 29 CFR 1910.1048).

Information on: Carbon black
Prolonged inhalation exposures may produce cough, phlegm, tiredness, chest pain and headache. Chronic exposures have been known to produce pneumoconiosis (chronic inflammatory and fibrotic lung disease).

Information on: Benzene
Chronic exposure to benzene may cause blood abnormalities including low leukocyte count, decreased platelets (needed for blood clotting) and low red blood cell count. Animal studies indicate that benzene may adversely affect the ability to reproduce. Benzene readily crosses the placenta and has been shown to be embryotoxic and fetotoxic in animals. Both IARC and NTP have classified benzene as a human carcinogen. Studies have shown that benzene causes leukemia in humans.

Medical conditions aggravated by overexposure:
Data available do not indicate that there are medical conditions that are generally recognized as being aggravated by exposure to this substance/product.

Potential environmental effects

Aquatic toxicity:
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.
The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.

4. First-aid measures

General advice:
Remove contaminated clothing.
If inhaled:
Remove the affected individual into fresh air and keep the person calm. Assist in breathing if necessary. Immediate medical attention required.

If on skin:
Wash affected areas thoroughly with soap and water. If irritation develops, seek medical attention.

If in eyes:
In case of contact with the eyes, rinse immediately for at least 15 minutes with plenty of water. Immediate medical attention required.

If swallowed:
Rinse mouth and then drink plenty of water. Do not induce vomiting. Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions. Immediate medical attention required.

5. Fire-fighting measures

Self-ignition temperature: not self-igniting

Suitable extinguishing media:
water, dry extinguishing media, carbon dioxide, foam

Hazards during fire-fighting:
No particular hazards known.

Protective equipment for fire-fighting:
Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

6. Accidental release measures

Cleanup:
Spills should be contained, solidified, and placed in suitable containers for disposal.

7. Handling and storage

Handling
Protection against fire and explosion:
No explosion proofing necessary.

Storage
General advice:
No special precautions necessary. Avoid extreme heat. Store protected against freezing.

Storage stability:
Storage temperature: 70 - 80 °F
Protect against moisture.

8. Exposure controls and personal protection

Components with workplace control parameters
Limestone OSHA PEL 5 mg/m³ Respirable fraction; PEL 15 mg/m³ Total dust;
titanium dioxide  
OSHA  
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 ;  
Formaldehyde  
OSHA  
TWA value  0.75 ppm ; STEL value  2 ppm ; OSHA Action level  
0.5 ppm ;  
ACGIH  
CLV  0.3 ppm ;  
Benzene  
OSHA  
TWA value  1 ppm ; STEL value  5 ppm ; OSHA Action level  
0.5 ppm ; TWA value  10 ppm ; CLV  25 ppm ; max. conc.  
50 ppm ;  
ACGIH  
TWA value  0.5 ppm ; STEL value  2.5 ppm ; Skin  
Designation ;  
carbon black  
OSHA  
PEL  3.5 mg/m3 ;  
ACGIH  
TWA value  3.5 mg/m3 ;  

Advice on system design:
Provide local exhaust ventilation to control vapours/mists.

Personal protective equipment

Respiratory protection:
Wear a NIOSH-certified (or equivalent) organic vapour/particulate respirator as needed.

Hand protection:
Chemical resistant protective gloves

Eye protection:
Wear face shield or tightly fitting safety goggles (chemical goggles) if splashing hazard exists.

General safety and hygiene measures:
Avoid contact with skin. Handle in accordance with good industrial hygiene and safety practice. Wear protective clothing as necessary to prevent contact. Avoid inhalation of vapours/mists. Wash soiled clothing immediately.

9. Physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Form</td>
<td>liquid</td>
</tr>
<tr>
<td>Colour</td>
<td>various</td>
</tr>
<tr>
<td>pH value</td>
<td>&gt;= 7</td>
</tr>
<tr>
<td>Freezing point</td>
<td>32 °F</td>
</tr>
<tr>
<td>Boiling point</td>
<td>Unspecified</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>Unspecified</td>
</tr>
<tr>
<td>Density</td>
<td>11.67 - 11.87 lb/USg</td>
</tr>
<tr>
<td>Partitioning coefficient n-octanol/water (log Pow):</td>
<td>Unspecified</td>
</tr>
<tr>
<td>Viscosity, dynamic</td>
<td>No data available.</td>
</tr>
<tr>
<td>Solubility in water</td>
<td>completely soluble</td>
</tr>
</tbody>
</table>

10. Stability and reactivity

Conditions to avoid:
> 80 degrees Fahrenheit  
Avoid moisture.

Hazardous reactions:
The product is chemically stable.
11. Toxicological information

Chronic toxicity

Genetic toxicity:
The substance was not mutagenic in bacteria.
The product has not been tested. The statement has been derived from products of a similar structure and composition.

12. Ecological information

Environmental fate and transport

Biodegradation:
Evaluation: Biodegradable.
The product has not been tested. The statement has been derived from products of a similar structure and composition.

13. Disposal considerations

Waste disposal of substance:
Incinerate in a licensed facility.
Dispose of in a licensed facility.
Do not discharge substance/product into sewer system.

Container disposal:
Steel drums must be emptied and can be sent to a licensed drum reconditioner for reuse, a scrap metal dealer or an approved landfill. Refer to 40 CFR § 261.7 (residues of hazardous waste in empty containers).
Decontaminate containers prior to disposal. Recommend crushing, puncturing or other means to prevent unauthorized use of used containers.

14. Transport information

Reference Bill of Lading

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 RTK

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CA Prop. 65:
THIS PRODUCT CONTAINS A CHEMICAL(S) KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER AND BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.

16. Other information

HMIS III rating
Health: 2 Flammability: 1 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
K_ProdRegs@basf.com

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END OF DATA SHEET