1. Product and Company Identification

Use: Product for construction chemicals

Company
BASF CORPORATION
100 Park Avenue
Florham Park, NJ 07932, USA

24 Hour Emergency Response Information
CHEMTREC: 1-800-424-9300
BASF HOTLINE: 1-800-832-HELP (4357)

2. Hazards Identification

Emergency overview

WARNING:
MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION.
MAY CAUSE ALLERGIC SKIN REACTION.
Prolonged or repeated skin contact may cause sensitization or allergic reactions.
Avoid contact with the skin, eyes and clothing.
Keep container tightly closed.
Wash thoroughly after handling.

Colour: white
Odour: mild

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.

Irritation / corrosion:
Eye contact causes irritation. Skin contact causes irritation.

Sensitization:
Sensitization after skin contact possible.

Potential environmental effects

Aquatic toxicity:
Acute toxic for aquatic organisms. The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations. The product has not been tested. The statement has been derived from the properties of the individual components. May cause long-term adverse effects in the aquatic environment.
3. 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>25068-38-6</td>
<td>&gt;= 15.0 - &lt;= 40.0 %</td>
<td>bisphenol A-epichlorohydrin resin</td>
</tr>
<tr>
<td>25085-99-8</td>
<td>&gt;= 15.0 - &lt;= 40.0 %</td>
<td>Oxirane, 2,2'-(1-methylene)bis(4,1-phenyleneoxymethylene)bis-, homopolymer</td>
</tr>
<tr>
<td>14807-96-6</td>
<td>&gt;= 15.0 - &lt;= 40.0 %</td>
<td>talc</td>
</tr>
<tr>
<td>2210-79-9</td>
<td>&gt;= 10.0 - &lt;= 30.0 %</td>
<td>Oxirane, 2-[(2-methylphenoxy)methyl]-</td>
</tr>
<tr>
<td>13463-67-7</td>
<td>&gt;= 5.0 - &lt;= 10.0 %</td>
<td>Titanium dioxide</td>
</tr>
<tr>
<td>67762-90-7</td>
<td>&gt;= 1.0 - &lt;= 5.0 %</td>
<td>Siloxanes and Silicones, di-Me, reaction products with silica</td>
</tr>
</tbody>
</table>

4. First-Aid Measures

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

If inhaled:
If difficulties occur after vapour/aerosol has been inhaled, remove to fresh air and seek 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 with water. Seek medical attention if necessary. Do not induce vomiting unless told to by a poison control center or doctor.

5. Fire-Fighting Measures

Flash point: 249 °C (ASTM D93)
Lower explosion limit: No data available.
Upper explosion limit: No data available.

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, 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:
Use personal protective clothing. Do not breathe vapour/aerosol/spray mists. 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:
For small amounts: Pick up with inert absorbent material (e.g. sand, earth etc.). Dispose of contaminated material as prescribed.
For large amounts: Pump off product.

7. Handling and Storage

Handling
General advice:
Avoid aerosol formation. Avoid inhalation of mists/vapours. Avoid skin contact. No special measures necessary provided product is used correctly.

Protection against fire and explosion:
The product does not contribute to the spreading of flames, nor is it self combustible, not explosive. Take precautionary measures against static discharges.

Storage
General advice:
Keep only in the original container in a cool, well-ventilated place. Protect from direct sunlight. Store protected against freezing.

8. Exposure Controls and Personal Protection

Components with workplace control parameters

<table>
<thead>
<tr>
<th>Component</th>
<th>OSHA</th>
<th>ACGIH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Titanium dioxide</td>
<td>PEL 15 mg/m3 Total dust</td>
<td>TWA value 10 mg/m3</td>
</tr>
<tr>
<td></td>
<td>ACGIH</td>
<td></td>
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</tr>
<tr>
<td>Talc</td>
<td>ACGIH</td>
<td>TWA value 2 mg/m3 Respirable fraction</td>
</tr>
<tr>
<td></td>
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</tbody>
</table>
Personal protective equipment

Respiratory protection:
When workers are facing concentrations above the occupational exposure limits they must use appropriate certified respirators.

Hand protection:
Wear chemical resistant protective gloves.

Eye protection:
Safety glasses with side-shields.

Body protection:
Depending upon conditions of use, cover as much of the exposed skin as possible to prevent all skin contact.

Light protective clothing

General safety and hygiene measures:
Avoid contact with the skin, eyes and clothing. 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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Form</td>
<td>liquid</td>
</tr>
<tr>
<td>Odour</td>
<td>mild</td>
</tr>
<tr>
<td>Colour</td>
<td>white</td>
</tr>
<tr>
<td>pH value</td>
<td>not applicable</td>
</tr>
<tr>
<td>Boiling point</td>
<td>182 °C</td>
</tr>
<tr>
<td>Density</td>
<td>1.35 g/cm³ (20 °C)</td>
</tr>
<tr>
<td>Vapour density</td>
<td>Heavier than air.</td>
</tr>
<tr>
<td>Solubility in water</td>
<td>not available</td>
</tr>
</tbody>
</table>

10. Stability and Reactivity

Conditions to avoid:
Avoid extreme temperatures.

Substances to avoid:
Strong acids, strong bases, strong oxidizing agents

Hazardous reactions:
The product is stable if stored and handled as prescribed/indicated.

Decomposition products:
Carbon oxides, nitrogen oxides

Thermal decomposition:
No decomposition if stored and handled as prescribed/indicated.

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

11. Toxicological information

Acute toxicity

Oral:
Information on: Oxirane, 2-[(2-methylphenoxy)methyl]-
Type of value: LD50
Species: rat (male/female)
Value:  5,800 mg/kg

Inhalation:

Information on: Oxirane, 2-[(2-methylphenoxy)methyl]-
Type of value: LC50
Species: rat
Value:  4.8 - 8.5 mg/l

Dermal:

Information on: Oxirane, 2-[(2-methylphenoxy)methyl]-
Type of value: LD50
Species: rat
Value:  > 2,150 mg/kg
The product has not been tested. The statement has been derived from products of a similar structure and composition. Literature data.

Irritation / corrosion

Information on: Oxirane, 2-[(2-methylphenoxy)methyl]-
Assessment of irritating effects:
Eye contact causes irritation. Skin contact causes irritation.

Sensitization

Information on: Oxirane, 2-[(2-methylphenoxy)methyl]-
Assessment of sensitization:
Caused skin sensitization in animal studies.

Result: The European Union (EU) has classified this substance as skin-sensitizing (R43).

Genetic toxicity

Information on: Oxirane, 2-[(2-methylphenoxy)methyl]-
The substance was mutagenic in a bacterial test system. The substance was not mutagenic in studies with mammals.

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.

12. Ecological Information

Fish
Information on: Reaction product: bisphenol-A-(epichlorhydrin)-Epoxy resin (number average molecular weight <= 700)

Acute:
JIS K 0102-71 semistatic
Oryzias latipes/LC50 (96 h): 1.41 mg/l

Aquatic invertebrates

Information on: Reaction product: bisphenol-A-(epichlorhydrin)-Epoxy resin (number average molecular weight <= 700)

Acute:
daphnia/EC50: 1 - 10 mg/l
Literature data.
Daphnia test acute static
Daphnia magna/EC50 (48 h): 12 mg/l

Aquatic plants

Information on: Reaction product: bisphenol-A-(epichlorhydrin)-Epoxy resin (number average molecular weight <= 700)

Toxicity to aquatic plants:
Algal growth inhibition test static
green algae/EC50 (96 h): 9.1 mg/l

Microorganisms

Information on: Reaction product: bisphenol-A-(epichlorhydrin)-Epoxy resin (number average molecular weight <= 700)

Toxicity to microorganisms:
aquatic
activated sludge/EC50: > 100 mg/l
Literature data.

13. Disposal considerations

Waste disposal of substance:
Recommendations: Use excess product in an alternate beneficial application. Do not discharge into drains/surface waters/groundwater. Dispose of in accordance with local authority regulations.

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

Hazard class: 9
Safety Data Sheet
CONCRESIVE LIQUID LPL PTA

Packing group: III
ID number: UN 3082
Hazard label: 9, EHSM
Marine pollutant: YES
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(contains REACTION PRODUCT BISPHENOL A)

Air transport
IATA/ICAO
Hazard class: 9
Packing group: III
ID number: UN 3082
Hazard label: 9, EHSM
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(contains REACTION PRODUCT BISPHENOL A)

15. Regulatory Information

Federal Regulations
Registration status:
Chemical TSCA, US released / listed
OSHA hazard category:
IARC 1, 2A or 2B carcinogen; Chronic target organ effects reported; OSHA PEL established; ACGIH TLV established

EPCRA 311/312 (Hazard categories):
Acute;

State regulations
State RTK CAS Number Chemical name
MA, NJ, PA 14807-96-6 talc
MA, NJ, PA 13463-67-7 Titanium dioxide

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: 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.

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