1. Product and Company Identification

   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 IRRITATION.
   MAY CAUSE SKIN IRRITATION.
   MAY CAUSE ALLERGIC SKIN REACTION.
   CONTAINS MATERIAL WHICH CAN CAUSE CANCER.
   Avoid contact with the skin, eyes and clothing.
   Wash thoroughly after handling.
   Keep container tightly closed.

   State of matter: liquid
   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.

   Acute toxicity:
   Virtually nontoxic after a single ingestion.

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

   Sensitization:
   Sensitization after skin contact possible.

   Chronic toxicity:

   Carcinogenicity: Contains a suspect carcinogen.

   Repeated dose toxicity: No reliable data was available concerning repeated dose toxicity.
Reproductive toxicity: The chemical structure does not suggest a specific alert for such an effect.

Teratogenicity: The chemical structure does not suggest a specific alert for such an effect.

Genotoxicity: The chemical structure does not suggest a specific alert for such an effect.

Signs and symptoms of overexposure:
Eye irritation, skin irritation, allergic contact dermatitis

Potential environmental effects

Aquatic toxicity:
Acutely toxic for aquatic organisms. May cause long-term adverse effects in the aquatic environment. 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.

Degradation / environmental fate:
The product is virtually insoluble in water and can thus be separated from water mechanically in suitable effluent treatment plants.

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-methylethylidene)bis(4,1-phenyleneoxy)methylene)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;= 3.0 - &lt;= 7.0 %</td>
<td>Titanium dioxide</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
Flammability: not highly flammable

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.

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
Titanium dioxide  OSHA PEL  15 mg/m3 Total dust ;
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/Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Form:</td>
<td>paste</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>Density:</td>
<td>approx. 1.44 g/cm³ (20 °C)</td>
</tr>
<tr>
<td>Vapour density:</td>
<td>Heavier than air</td>
</tr>
<tr>
<td>Partitioning coefficient</td>
<td>not applicable</td>
</tr>
<tr>
<td>n-octanol/water (log Pow):</td>
<td>not applicable</td>
</tr>
<tr>
<td>Solubility in water:</td>
<td>emulsifiable</td>
</tr>
<tr>
<td>Miscibility with water:</td>
<td>not soluble</td>
</tr>
<tr>
<td>Other Information:</td>
<td>If necessary, information on other physical and chemical parameters is indicated in this section.</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:
No hazardous decomposition products if stored and handled as prescribed/indicated.

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

Corrosion to metals:
Corrosive effects to metal are not anticipated.

11. Toxicological information

Irritation / corrosion

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

Information on: bisphenol A-epichlorohydrin resin
Assessment of irritating effects:
Eye contact causes irritation. Skin contact causes irritation.

Sensitization

Information on: bisphenol A-epichlorohydrin resin
Assessment of sensitization:
Sensitization after skin contact possible.

Information on: Oxirane, 2,2'-(1-methylethyldiene)bis(4,1- phenyleneoxymethylene)]bis-, homopolymer
Assessment of sensitization:
May cause sensitization by skin contact.

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.

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 the properties of the individual components.

12. Ecological Information

Degradability / Persistence
Biological / Abiological Degradation
Evaluation: Not readily biodegradable (by OECD criteria).

Bioaccumulation
Because of the product's consistency and low water solubility, bioavailability is improbable.

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
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; Chronic target organ effects reported; OSHA PEL established; ACGIH TLV established
EPCRA 311/312 (Hazard categories):

Acute; Chronic

State regulations

<table>
<thead>
<tr>
<th>State RTK</th>
<th>CAS Number</th>
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<tr>
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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: 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.

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.