1. Product and Company Identification

Company
BASF Canada Inc.
100 Milverton Drive
Mississauga, ON L5R 4H1, CANADA

24 Hour Emergency Response Information
CANUTEC (reverse charges): (613) 996-6666
BASF HOTLINE: (800) 454-COPE (2673)

2. Hazards Identification

Emergency overview
HARMFUL IF INHALED.
SENSITIZER.
IRRITANT.
May cause sensitization by skin contact.
Irritating to eyes and skin.

State of matter: liquid
Odour: not applicable

Potential health effects

Acute toxicity:
Harmful by inhalation. May be harmful if absorbed through skin.

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

Sensitization:
Sensitization after skin contact possible.

Chronic toxicity:

Carcinogenicity: Based on the ingredients there is no suspicion of a carcinogenic effect in humans. Based on available Data, the classification criteria are not met.

Repeated dose toxicity: No reliable data was available concerning repeated dose toxicity. Based on available Data, the classification criteria are not met.

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

Potential environmental effects
Aquatic toxicity:
Acute/ly 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.

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>Hazardous ingredients</th>
</tr>
</thead>
<tbody>
<tr>
<td>25068-38-6</td>
<td>60.0 - 100.0 %</td>
<td>Reaction product: bisphenol-A-(epichlorhydrin)-Epoxy resin (number average molecular weight &lt;= 700)</td>
</tr>
<tr>
<td>26142-30-3</td>
<td>15.0 - 40.0 %</td>
<td>Poly(oxy(methyl-1,2-ethanediyl)).alpha.-(oxiranylmethyl)-.omega.-(oxiranylmethoxy)-</td>
</tr>
<tr>
<td>98-00-0</td>
<td>10.0 - 30.0 %</td>
<td>furfuryl alcohol</td>
</tr>
</tbody>
</table>

4. First-Aid Measures

General advice:
First aid personnel should pay attention to their own safety. Immediately 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 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: 95 °C
Flammability: not highly flammable

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

Unsuitable extinguishing media for safety reasons:
water jet

Protective equipment for fire-fighting:
Wear a self-contained breathing apparatus.
6. Accidental release measures

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.

Storage
General advice:
Keep only in the original container in a cool, dry, well-ventilated place away from ignition sources, heat or flame.
Protect from direct sunlight.

Temperature tolerance
Protect from temperatures below: 5 °C
The packed product must be protected from temperatures below the indicated one.

8. Exposure Controls and Personal Protection

Components with occupational exposure limits
furfuryl alcohol OSHA PEL PEL 50 ppm 200 mg/m3 ;
ACGIH TLV TWA value 10 ppm ; STEL value 15 ppm ; Skin
Designation ;
The substance can be absorbed through the skin.

Personal protective equipment
Respiratory protection:
Wear appropriate certified respirator when exposure limits may be exceeded.

Hand protection:
Wear chemical resistant protective gloves., Manufacturer's directions for use should be observed because of great diversity of types.

Eye protection:
Safety glasses with side-shields.

Body protection:
Body protection must be chosen depending on activity and possible exposure, e.g. head protection, apron, protective boots, chemical-protection suit.

General safety and hygiene measures:
Do not inhale gases/vapours/aerosols. Avoid contact with the skin, eyes and clothing. Avoid exposure - obtain special instructions before use. 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>not applicable</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>No data available.</td>
</tr>
<tr>
<td>pH value</td>
<td>not soluble, not applicable</td>
</tr>
<tr>
<td>Melting temperature</td>
<td>not applicable</td>
</tr>
<tr>
<td>Boiling point</td>
<td>338 °C</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>not applicable</td>
</tr>
<tr>
<td>Density</td>
<td>approx. 1.14 g/cm³</td>
</tr>
<tr>
<td>Vapour density</td>
<td>not determined</td>
</tr>
<tr>
<td>Viscosity, dynamic</td>
<td>not determined</td>
</tr>
<tr>
<td>Solubility in water</td>
<td>(20 °C) emulsifiable</td>
</tr>
<tr>
<td>Miscibility with water</td>
<td>(20 °C) immiscible</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

**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.

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

11. Toxicological information

**Acute toxicity**

*Information on: furfuryl alcohol*

*Assessment of acute toxicity:*

**Irritation / corrosion**

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

*Assessment of irritating effects:*
Eye contact causes irritation. Skin contact causes irritation.

*Information on: furfuryl alcohol*

*Assessment of irritating effects:*
EU-classification: Irritating to eyes.

**Sensitization**
Information on: Reaction product: bisphenol-A-(epichlorhydrin)-Epoxy resin (number average molecular weight $\leq 700$)
Assessment of sensitization:
Sensitization after skin contact possible.

Repeated dose toxicity

Information on: furfuryl alcohol
Assessment of repeated dose toxicity:
Repeated exposures may cause adverse effects on the brain, as seen in animal studies.
After repeated exposure the prominent effect is local irritation.

Carcinogenicity

Information on: furfuryl alcohol
In long-term studies in rats and mice in which the substance was given by inhalation, a carcinogenic effect was observed.

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

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
TDG
Not classified as a dangerous good under transport regulations
Sea transport
IMDG
Hazard class: 9
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 DSL, CA released / listed

WHMIS classification: D1A: Materials Causing Immediate and Serious Toxic Effects - Very toxic material

THIS PRODUCT HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CPR AND THE MSDS CONTAINS ALL THE INFORMATION REQUIRED BY THE CPR.

16. Other Information

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.

SDS Prepared by:
BASF NA Product Regulations
BASF HOTLINE (800) 454 – COPE (2673)
SDS Prepared on: 2013/06/24
END OF DATA SHEET