Part A

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: ResFloor-TL, Part A

PRODUCT CLASS: Epoxy Resin

PRODUCT TYPE: Diglycidyl Ether of Bisphenol A

D.O.T CATEGORY: UN3082

MANUFACTURER: Resin8, Inc
398 W Wrightwood Avenue
Elmhurst, IL 60126

TELEPHONE: (773) 551-3633

EMERGENCY: (773) 551-3633

2. HAZARD(S) IDENTIFICATION

Hazard Risk Classification
Acute Toxicity - Oral: Category 4
Skin Corrosion/Irritation: Category 2
Serious Eye Damage/Irritation: Category 2A
Skin Sensitization: Category 1
Chronic hazards to the aquatic environment: Category 2

Label elements including precautionary statements

Hazard Risk Statement
H302 Harmful if swallowed
H315 Causes skin irritation
H317 May cause allergic skin reaction
H319 Causes serious eye irritation
H411 Toxic to aquatic life with long lasting effects

Signal Word
Warning

Precautionary Statement

Prevention
P261 Avoid breathing dust/fume/gas/mist/vapors/spray
P264 Wash thoroughly after handling.
P272 Contaminated work clothing should not be allowed out of the workplace
P273 Avoid release to the environment
P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response
P301+P312 IF SWALLOWED: CALL A POISON CENTER or doctor/physician if you feel sick
P330 Rinse mouth
P302+P352 IF ON SKIN: Wash with plenty of soap and water. 
P321 Specific treatment (see on this label) 
P332+P313 If skin irritation occurs: Get medical advice/attention 
P362 Take off contaminated clothing and wash before reuse 
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing 
P337+P313 If eye irritation persists: Get medical advice/attention. 
P333+P313 If skin irritation or rash occurs: Get medical advice/attention. 
P363 Wash contaminated clothing before reuse 
P391 Collect spillage

Storage

Disposal

P50 Dispose of contents/container

3. COMPOSITION/ INFORMATION ON INGREDIENTS

Ingredients 

>74% DIGLYCIDYL ETHER OF BISPHENOL. A 
CAS number 25068-38-6 
The remaining ingredients are trade secret.

4. FIRST AID MEASURES

Eye contact

Flush eyes with plenty of water for at least 15 minutes while holding eyelids open. Consult a physician if signs of irritation appear.

Skin contact

Immediately remove contaminated clothing or shoes, wash skin with plenty of water for at least 15 minutes. Use soap if readily available, or follow by thoroughly washing soap and water. Do not reuse clothing until thoroughly decontaminated.

Inhalation

Move person to fresh air area and provide oxygen if breathing is difficult. Consult a physician if effects occur.

Ingestion

Do not induce vomiting because of risk of aspiration. Rinse mouth with water. Consult a physician if effects occur.

Acute and delayed symptoms/effects

<table>
<thead>
<tr>
<th>Exposure</th>
<th>Short-term exposure</th>
<th>Long-term exposure</th>
<th>Prolonged exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inhalation</td>
<td>Irritation, allergic reaction, blood congestion of the lungs</td>
<td>Irritation, allergic reaction</td>
<td></td>
</tr>
<tr>
<td>Ingestion</td>
<td>No data for side effect</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Skin contact</td>
<td>Irritation, allergic reaction</td>
<td>Irritation, allergic reaction</td>
<td></td>
</tr>
<tr>
<td>Eye contact</td>
<td>Irritation</td>
<td>Irritation</td>
<td></td>
</tr>
</tbody>
</table>
5. FIRE FIGHTING MEASURES

Suitable / Unsuitable extinguishing media:

<table>
<thead>
<tr>
<th>Suitable extinguishing media</th>
<th>Dry chemical, carbon dioxide, water, foam in use.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unsuitable extinguishing media</td>
<td>No data</td>
</tr>
<tr>
<td>Conflagration</td>
<td>Use foaming agent in use or water spray.</td>
</tr>
</tbody>
</table>

Specific hazards arising from the chemical

<table>
<thead>
<tr>
<th>Combustion product</th>
<th>In case of fire, toxic fumes might be formed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fire-fighting hazard</td>
<td>May cause fire.</td>
</tr>
</tbody>
</table>

Special protective equipment and precautions for fire-fighters

Isolate from heat, electrical equipment, sparks and open flame. Wear self-contained breathing apparatus

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Use protective equipment as required. Avoid skin contact or inhalation

Environmental precautions procedures

<table>
<thead>
<tr>
<th>Air</th>
<th>No data</th>
</tr>
</thead>
<tbody>
<tr>
<td>Soil</td>
<td>No data</td>
</tr>
<tr>
<td>Underwater</td>
<td>Store away from water supply and drainage.</td>
</tr>
</tbody>
</table>

Methods and cleaning up

<table>
<thead>
<tr>
<th>Little Leakage</th>
<th>All disposal methods must be in compliance with applicable local regulations. Sweep spilled material into non-leaking containers. Absorpt with sand or non-flammable material.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enormous leakage</td>
<td>No data</td>
</tr>
</tbody>
</table>

7. HANDLING AND STORAGE

Precautions for safe handling

Keep in a cool, well-ventilated area with container closed.
Conditions for safe storage

Avoid contact with skin and eyes.
Use with adequate ventilation.
Keep away from heat, flame, sparks and high temperature.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Control Parameters

<table>
<thead>
<tr>
<th>Domestic regulation</th>
<th>No data</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACGIH (TLV)</td>
<td>No data</td>
</tr>
<tr>
<td>OSHA (PEL)</td>
<td>No data</td>
</tr>
<tr>
<td>NIOSH (REL)</td>
<td>No data</td>
</tr>
<tr>
<td>NIOSH (IDLH)</td>
<td>No data</td>
</tr>
<tr>
<td>ACGIH (BED)</td>
<td>No data</td>
</tr>
</tbody>
</table>

Appropriate engineering controls

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentration low.

Personal protective equipment

<table>
<thead>
<tr>
<th>Respiratory protection</th>
<th>Never exceed the national Occupational Exposure Limit. Use local exhaust ventilation or handle in a ventilated enclosure. For greater protection, a facepiece chemical cartridge respirator is recommended.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eye protection</td>
<td>Safety glasses with side shields</td>
</tr>
<tr>
<td>Hands protection</td>
<td>Chemical resistant gloves</td>
</tr>
<tr>
<td>Body protection</td>
<td>Chemical resistant protective suit. Chemicals resistant boots. Don't need protective clothes at normal state</td>
</tr>
</tbody>
</table>

9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Appearance</th>
<th>Liquid Clear</th>
</tr>
</thead>
<tbody>
<tr>
<td>Odor</td>
<td>Odorless</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>No Data</td>
</tr>
<tr>
<td>pH</td>
<td>6-8</td>
</tr>
<tr>
<td>Melting point / freezing point</td>
<td>-16°C (at 1,013h Pa)</td>
</tr>
<tr>
<td>Initial boiling point and boiling range</td>
<td>&gt; 204.4°C</td>
</tr>
</tbody>
</table>
10. STABILITY AND REACTIVITY

Chemical stability
Stable at normal temperature and pressure

Possibility of hazardous reactions
No data

Conditions to avoid
Excessive heating.

Avoid to contact with strong oxidizing agent, heat, spark and flame.
Incompatible materials: Acids, amines, bases, oxidizing agents.
Hazardous decomposition products: May produce hazardous carbon oxides, chloro hydrogen.

11. TOXICOLOGICAL INFORMATION

Information on the likely routes of exposure:

by respiratory organ
May cause respiratory organ irritation.

by mouth
No data

by skin and contact
May cause skin irritation.

by eye contact
May cause eye irritation.

Delayed and immediate effects as well as chronic effects from short- and long-term exposure
Acute toxic

Oral

LD50 > 2,000mg/kg Rat (Wistar), OECD Guideline 420)
LD50  1,000 - 5,000mg/Kg Rat
LD50  500 - 2,000mg/Kg Mouse

Dermal

LD50 > 2,000mg /kg bw (male/female rat (Wistar), OECD Guideline 402)
LD50 > 1,200 - 20,000mg /kg Rat
LD50 > 20,000mg /kg Rabbit
LD50  1,270mg /kg Mouse

Inhalation

No data

Skin corrosion / irritation

Moderate skin irritation

Serious eye damage / eye irritation

Slightly to moderate eye irritation

Respiratory sensitization

No data

Skin sensitization

May causes sensitization in contact with skin.

Carcinogenicity

**Chronic toxicity / carcinogenicity studies (Oral. Rats. 2 years)**
NOAEL: 15 mg / kg / day (male) - Decreased body weight, an enlarged cecum
NOAEL   100 mg / kg /day (female)

**Chronic toxicity / carcinogenicity studies (Dermal)**
The systemic NOEL : 1 mg /kg/day (female rats)
   - Histopathologic changes (10, 100 mg/kg/day)
The systemic NOEL : 100mg/kg/day (male mice)
The application site NOEL : 0.1mg/kg/day (male mice
   -Epidermal hyperplasia, chronic dermal inflammation,
   epidermal crusts (10,100mg/kg/application)

IARC

No data

NTP

No data

OSHA

No data

WISHA

No data

ACGIH

No data

Germ Cell Mutagenicity

Not classified

*in vitro* - Positive  *in vivo* - Negative

<table>
<thead>
<tr>
<th>Type</th>
<th>Salmonella typhimurium</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>(TA98, TA100, TA1535, TA1537, TA1538)</td>
</tr>
</tbody>
</table>
## IN VITRO CHROMOSOMAL ABERRATIONS

<table>
<thead>
<tr>
<th>Test Code</th>
<th>SAL+</th>
<th>Result</th>
<th>Positive</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Type</strong></td>
<td>CHL cells</td>
<td>Metabolic Activation</td>
<td>Without</td>
</tr>
<tr>
<td><strong>Dose</strong></td>
<td>0.01-0.04mg/ml (Solvent; DMSO)</td>
<td>Dose Regime</td>
<td>24hr continuous</td>
</tr>
<tr>
<td><strong>Result</strong></td>
<td>Positive (Structure change)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Reproductive toxicity

A number of in vivo assays were conducted and all were negative. These included, mouse micronucleus, dominant lethal, chromosome aberration, mouse spermatocytes and DNA damage/repair.

### Reproductive toxicity

Effect on fertility (Rat, two generations)

No indications of any adverse effects on reproduction

Noel: 50 mg/kg/day (adult males)

540 mg/kg/day (adult female)

Noel for reproductive effects: 750mg/kg/day

No evidence of developmental toxicity at doses level resulting in material toxicity in rats and rabbits following oral administration or rabbits following dermal administration.

### Specific target organ toxicity (single exposure)

No data

### Specific target organ toxicity (repeated exposure)

**Oral study**

Slight body weight effects (25mg/kg/day and higher)

Enlarged cecum (necropsy, male rats, 25mg/kg/day)

Slight histopathologic changes (the adrenal gland, cecum and kidney, rats, 250 mg/kg/day) A3% decrease in body weight (female rats, 50 mg/kg/day)

**Dermal study**

The systemic toxicity NOAEL: 100 mg/kg/day - slight decrease in body weights

(1000 mg/kg/day) Dermal effects.

NOEL: 10 mg/kg/day (female rats)

### Aspiration hazard

No data

### Numerical measures of toxicity

Intraperitoneal (i.p.) LD50 1,400 - 2,400mg/kg Rat

LD50 1,780 - 4,000mg/kg Mouse
Aquatic and terrestrial ecotoxicity

**Fish**
96hr-LC50 : 3.6mg /L test mat. Oncorhynchus mykiss (direct application, nominal)
(OECD Guideline 203)
LC50 1.4 mg/L 96hr Oryzias latipes

**Crustacean**
48hr-EC50: 2.8 mg/L- test mat. Daphnia magna
(Direct addition, nominal, based on : mobility)
(OECD Guideline 202)
EC50 1.7 mg /L 48hr

**Aquatic Plant**
72HR-EC50 > 11 mg/L Scenedesmus capricornutum water soluble fraction (meas. (arithm. mean)) based on: growth rate (EPA-66013-75-009)

Persistence and degradability persistence

**Persistence**
No data

**Resolvability**
No data

Bioaccumulative potential

**Concentration**
Kow:3.24
log Kow 2.28 (Estimated)
BCF 31 L/kg ww
BCF 0.56 - 0.67

**Bio resolvability**
0(%) 28 day; Non-degradable

Mobility in soil
Log Koc=2.65 +/-0.7
QSAR prediction using the Kow method in KOCWIN v. 2.0 and Kow=3.24 as input.

Other adverse effects
Invertebrates: 21d-NOEC=0.3 mg /L test mat. Daphnia magna (nominal)
based on: survival, growth and reproduction (OECD Guideline 211)
Algae : 72hr-NOEC :4.2mg/L Scenedesmus capricornutum water soluble fraction (meas. (arithm. mean)) based on: growth rate (EPA-66013-75-009)

13. DISPOSAL CONSIDERATIONS
Disposal method: Comply with all Federal, State and Local Regulations

14. TRANSPORT INFORMATION

INFORMATION dot

**UN/ID No.**
UN3082

**Shipping name**
Environmentally hazardous substance, liquid, n.o.s.
(Diglycidyl Ether of Bisphenol A)

**Class or Division**
9

**Packing group**
III

**Label (s)**
8
Marine Pollutant

Special precaution which a user to be aware of or needs to comply with in connection with transport or conveyance either within or outside their premises

Emergency procedure at fire F - A  Emergency procedure at leakages S - F

15. REGULATORY INFORMATION

This product is listed on the TSCA inventory of chemical substances in USA.
This product is DSL for the Chemical Substance inventory in Canada.

16. OTHER INFORMATION

Health = 2, Fire = 1, Reactivity = 0

Part B

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME  ResFloor-TL, Part B
PRODUCT CLASS:  Epoxy Hardener
PRODUCT TYPE  Curing Agent
D.O.T CATEGORY  UN2735
MANUFACTURER  Resin8, Inc
                398 W Wrightwood Avenue
                Elmhurst, IL 60126
TELEPHONE  (773) 551-3633
EMERGENCY  (773) 551-3633

2. HAZARD(S) IDENTIFICATION

GHS Classification  Skin corrosion - Category 18
Serious Eye Damage - Category 1
Skin sensitization - Category 1
Specific target organ toxicity - repeated exposure - Category 2

GHS label elements

Hazard pictograms / symbols

Hazard Risk Statements  H314: Causes severe skin burns and eye damage.
                        H317: May cause an allergic skin reaction.
                        H373a: May cause damage to organs through prolonged or repeated exposure if swallowed.
Signal Word | Danger
---|---
Precautionary Statement | Prevention
P261 : Do not breathe dust/fume/gas/mist/vapours/spray.
P264 : Wash hands thoroughly after handling.
P280 : Wear protective gloves/protective clothing/eye protection/face protection.

Response | IF SWALLOWED - rinse mouth. Do NOT induce vomiting.
P301+P330+P331 : IF ON SKIN - Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P303+P361+P353 : IF IN EYES - Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.
P310 : Immediately call a POISON CENTRE or doctor/physician.
P333+P313 : If skin irritation or rash occurs - Get medical advice/attention.
P363 : Wash contaminated clothing before reuse.

Hazards not otherwise classified | Corrosive. Components of the product may affect the nervous system. Severe eye irritant.

3. COMPOSITION-INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS Number</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Benzyl alcohol</td>
<td>100-51-6</td>
<td>&lt; 45%</td>
</tr>
<tr>
<td>Benzene-1,3-dimethaneamine (MXDA)</td>
<td>1477-55-0</td>
<td>&lt; 20%</td>
</tr>
</tbody>
</table>

The remaining ingredients are trade secrets.

4. FIRST AID MEASURES

General advice | Seek medical advice. If breathing has stopped or is labored, give assisted respirations. Supplemental oxygen may be indicated. If the heart has stopped, trained personnel should begin cardiopulmonary resuscitation immediately.

Eye contact | Hold eyelids apart, initiate and maintain gentle and continuous irrigation until the patient receives medical care. If medical care is not promptly available, continue to irrigate for one hour.

Skin contact | Immediately remove contaminated clothing, and any extraneous chemical, if possible to do so without delay. Flush immediately with copious amounts of water. Initiate and maintain continuous irrigation until the patient receives medical care. If medical care is not promptly available, continue to irrigate for one hour. Cover wound with sterile dressing.

Ingestion | Do not induce vomiting without medical advice. If a person vomits when lying on his back, place him in the recovery position. Never give anything by mouth to an unconscious person. Prevent aspiration of vomit. Tum victim's head to the side.

Inhalation | If breathing has stopped or is labored, give assisted respirations. Supplemental oxygen may be indicated. If the heart has stopped, trained personnel should begin cardiopulmonary resuscitation immediately. Move to fresh air.

5. FIREFIGHTING MEASURES

Suitable extinguishing media
- Alcohol-resistant foam.
- Carbon dioxide (CO2).
- Dry chemical.
- Dry sand.
- Limestone powder

Specific hazards

Special protective equipment for fire-fighters
Avoid contact with the skin. A face shield should be worn. Use personal protective equipment. Wear self contained breathing apparatus for fire fighting, if necessary.

Further information
Do not allow run-off from firefighting to enter drains or water courses. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures
Wear suitable protective clothing, gloves and eye/face protection. Use self-contained breathing apparatus and chemically protective clothing. Evacuate personnel to safe areas.

Environmental precautions
Use appropriate containment to avoid environmental contamination. Do not allow spill to enter into sewers or waterways. Construct a dike to prevent spreading.

Methods for cleaning up
Approach suspected leak areas with caution. Place in appropriate chemical waste container.

Additional advice
Open enclosed spaces to outside atmosphere. If possible, stop flow of product.

7. HANDLING AND STORAGE

Handling
Use only in well-ventilated areas. Avoid breathing vapors and/or aerosols. Avoid contact with skin and eyes. Avoid contact with eyes. Emergency showers and eyewash stations should be readily accessible. Adhere to work practice rules established by government regulations. Use personal protective equipment. When using, do not eat, drink or smoke.

Storage
Do not store near acids. Keep containers tightly closed in a dry, cool and well-ventilated place. Product may partially freeze with extended exposure to cold temperatures, resulting in crystallization, haziness or separation. If this occurs, product should be warmed to 100-140F (38-60C) for one hour and stirred until clear. Do not store near acids. Keep container tightly closed in a dry, cool and well-ventilated place.
8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

<table>
<thead>
<tr>
<th>Engineering measures</th>
<th>Provide readily accessible eye wash stations and safety showers. Provide natural or explosion-proof ventilation adequate to ensure concentrations are kept below exposure limits.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Personal protective equipment</td>
<td></td>
</tr>
<tr>
<td>Respiratory protection</td>
<td>Wear appropriate respirator when ventilation is inadequate</td>
</tr>
</tbody>
</table>
| Hand protection | Butyl-rubber  
Nitrile rubber.  
Neoprene gloves.  
PVC disposable gloves  
Polyvinyl Alcohol Gloves (PVA).  
Impervious gloves.  
Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products, if a risk assessment indicates this is necessary. |
| Eye protection | Full face shield with goggles underneath. Chemical resistant goggles must be worn. |
| Skin and body protection | Full-body Suit. Impervious clothing. |
| Environmental exposure controls | Use appropriate containment to avoid environmental contamination. Do not allow spill to enter into sewers or waterways. |
| Special instructions for protection and hygiene | Discard contaminated leather articles. Wash hands at the end of each workshift and before eating, smoking or using the toilet. Provide readily accessible eye wash stations and safety showers |
| Exposure limit (s) | Benzyl alcohol  
Time weighted Average (TWA): WEEL  
10 ppm  
44.20 mg/m³ |

9. PHYSICAL AND CHEMICAL PROPERTIES

| Appearance | Liquid. Clear |
| Odor | Ammoniacal |
| Odor threshold | No data available |
| pH | Alkaline |
| Melting point/range | No data available |
| Boiling point/range | 405°F (207°C) |
| Flash point | 234°F (112°C) |
| Evaporation rate | No data available |
### Flammability (solid, gas)
Not applicable

### Upper/lower
Not applicable

### Explosion/flammmability limit

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Vapor pressure</strong></td>
<td>&lt; 10.4 mm Hg at 70°F (21°C)</td>
</tr>
<tr>
<td><strong>Water solubility</strong></td>
<td>&lt; 0.12</td>
</tr>
<tr>
<td><strong>Relative vapor density</strong></td>
<td>Not applicable</td>
</tr>
<tr>
<td><strong>Relative density</strong></td>
<td>1.03 (water = 1.0)</td>
</tr>
<tr>
<td><strong>Partition coefficient (noctanol/water)</strong></td>
<td>No data available</td>
</tr>
</tbody>
</table>

### Auto-ignition temperature
No data available

### Decomposition temperature
No data available

### Viscosity
No data available

### Molecular Weight
No data available

### Density
64.301 lb/ft³ (1.03 g/cm³) at 70°F (21°C)

## 10. STABILITY AND REACTIVITY

### Chemical Stability:
Stable under normal conditions.

### Conditions to avoid
No data available.

### Materials to avoid
- Reactive metals (e.g. sodium, calcium, zinc etc.).
- Materials reactive with hydroxyl compounds.
- Organic acids (i.e. acetic acid, citric acid etc.).
- Mineral acids.
- Sodium hypochlorite.
- Product slowly corrodes copper, aluminum, zinc and galvanized surfaces.
- Reaction with peroxides may result in violent decomposition of peroxide possibly creating an explosion.
- Oxidizing agents.

### Hazardous decomposition products
- Nitric acid.
- Ammonia.
- Nitrogen oxides (NOx).
- Nitrogen oxide can react with water vapors to form corrosive nitric acid.
- Carbon monoxide.
- Carbon dioxide (CO2).
- Aldehydes.
- Flammable hydrocarbon fragments. Nitrosamine.

In case of fire hazardous decomposition products may be produced.

### Possibility of hazardous Reactions/Reactivity
- No data available.
### 11. TOXICOLOGICAL INFORMATION

<table>
<thead>
<tr>
<th>Likely routes of exposure</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Effects on Eye</strong></td>
<td>Causes eye burns. May cause blindness. Severe eye irritation</td>
</tr>
<tr>
<td><strong>Effects on Skin</strong></td>
<td>Causes skin burns. If absorbed through the skin, may cause central nervous system effects, such as headache, nausea, dizziness, confusion, breathing difficulties.</td>
</tr>
<tr>
<td><strong>Inhalation Effects</strong></td>
<td>Harmful if inhaled and may cause delayed lung injury. Can cause severe eye, skin and respiratory tract burns. Risk of serious damage to the lungs (by inhalation). May cause nose, throat, and lung irritation. Inhalation of aerosol may cause irritation to the upper respiratory tract. May cause central nervous system effects, such as headache, nausea, dizziness, confusion, breathing difficulties. Severe cases of overexposure can result in respiratory failure.</td>
</tr>
<tr>
<td><strong>Ingestion Effects</strong></td>
<td>If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the esophagus and the stomach. Harmful if swallowed.</td>
</tr>
<tr>
<td><strong>Symptoms</strong></td>
<td>No data available</td>
</tr>
<tr>
<td><strong>Acute Oral Toxicity</strong></td>
<td>LD50: &gt; 2,000 mg/kg Species: Rat Method: Estimated</td>
</tr>
<tr>
<td><strong>Inhalation</strong></td>
<td>No data is available on the product itself.</td>
</tr>
<tr>
<td><strong>Inhalation - Components</strong></td>
<td>Benzyl alcohol LC50 (4 h): &gt; 4.178 mg/l Species: Rat OECD Test Guideline 403</td>
</tr>
<tr>
<td><strong>Acute Dermal Toxicity</strong></td>
<td>LD50: &gt;2,110 mg/kg Species: Rabbit.</td>
</tr>
<tr>
<td><strong>Skin corrosion/irritation</strong></td>
<td>Corrosive to the skin of a rabbit</td>
</tr>
<tr>
<td><strong>Serious eye damage/eye irritation</strong></td>
<td>Severe eye irritation.</td>
</tr>
<tr>
<td><strong>Sensitization</strong></td>
<td>May cause sensitization of susceptible persons by skin contact Chronic toxicity or effects from long term exposures</td>
</tr>
<tr>
<td><strong>Carcinogenicity</strong></td>
<td>No data available</td>
</tr>
<tr>
<td><strong>Reproductive toxicity</strong></td>
<td>No data is available on the product itself.</td>
</tr>
<tr>
<td><strong>Germ cell mutagenicity</strong></td>
<td>No data is available on the product itself.</td>
</tr>
<tr>
<td><strong>Specific target organ systemic toxicity (single exposure)</strong></td>
<td>No data is available</td>
</tr>
<tr>
<td><strong>Specific target organ systemic toxicity (repeated exposure)</strong></td>
<td>No data is available</td>
</tr>
<tr>
<td><strong>Aspiration hazard</strong></td>
<td>No data is available</td>
</tr>
</tbody>
</table>

Delayed and Immediate Effects and Chronic Effects from Short and Long Term Exposure
This product contains no listed carcinogens according to IARC, ACGIH, NTP and/or OSHA in concentrations of 0.1 percent or greater. Eye disease, Skin disorders and Allergies, Asthma, Neurological disorders, Liver disorders.

12. ECOLOGICAL INFORMATION

**Ecotoxicity effects**

<table>
<thead>
<tr>
<th>Category</th>
<th>Component</th>
<th>Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aquatic toxicity</td>
<td></td>
<td>No data is available on the product itself.</td>
</tr>
<tr>
<td>Toxicity to fish - Components</td>
<td>Benzyl alcohol</td>
<td>LC50 (96 h) : 10 mg/L - Species: Bluegill, Sunfish (Lepomis macrochirus)</td>
</tr>
<tr>
<td></td>
<td>Benzyl alcohol</td>
<td>LC50 (96 h) : 460 mg/L - Species: Fathead minnow (Pimephales promelas)</td>
</tr>
<tr>
<td>Methylenebiscyclohexanamine</td>
<td></td>
<td>LCO (96 h) : 46 mg/L - Species: Golden orfe (Leuciscus idus)</td>
</tr>
<tr>
<td>Methylenebiscyclohexanamine</td>
<td></td>
<td>LCO (96 h) : 100 mg/L - Species: Golden orfe (Leuciscus idus)</td>
</tr>
<tr>
<td>Toxicity to daphnia - Components</td>
<td>Methylenebiscyclohexanamine</td>
<td>EC50 (48 h) : 6.84 mg/L - Species: Daphnia magna</td>
</tr>
<tr>
<td>Toxicity to algae - Components</td>
<td>Benzyl alcohol</td>
<td>IC50 (72 h) : 700 mg/L Species: Algae</td>
</tr>
<tr>
<td></td>
<td>Methylenebiscyclohexanamine</td>
<td>EC50 (72 h) : 140 - 200 mg/L Species: Algae</td>
</tr>
<tr>
<td>Persistence and degradability</td>
<td></td>
<td>No data available</td>
</tr>
<tr>
<td>Biodegradability</td>
<td></td>
<td>No data is available on the product itself.</td>
</tr>
<tr>
<td>Mobility</td>
<td></td>
<td>No data available</td>
</tr>
<tr>
<td>Bioaccumulation</td>
<td></td>
<td>No data is available on the product itself.</td>
</tr>
<tr>
<td>Bioaccumulation - Components</td>
<td>Benzyl alcohol</td>
<td>Low bioaccumulation potential</td>
</tr>
</tbody>
</table>

13. DISPOSAL INFORMATION

**Waste from residues / unused products**

The product should not be allowed to enter drains, water courses or the soil. Dispose of this material and its container in a safe way. Contact supplier if guidance is required.

**Contaminated packaging**

Dispose of container and unused contents in accordance with federal, state, and local requirements.

14. TRANSPORT INFORMATION

INFORMATION dot
**NOTE:** This product contains a substance that: 1) is regulated as a Marine Pollutant, or 2) meets the definition of toxic to the aquatic environment.
I5. REGULATORY INFORMATION

Toxic Substance Control Act (TSCA) 12(b) Component(s): None.

<table>
<thead>
<tr>
<th>COUNTRY</th>
<th>REGULATORY LIST</th>
<th>NOTIFICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>USA</td>
<td>TSCA</td>
<td>Included on inventory</td>
</tr>
<tr>
<td>EU</td>
<td>EINECS</td>
<td>Included on EINECS inventory or polymer substance, monomers included on EINECS inventory or no longer polymer.</td>
</tr>
<tr>
<td>Canada</td>
<td>DSL</td>
<td>Not on inventory.</td>
</tr>
<tr>
<td>Australia</td>
<td>AICS</td>
<td>Included on inventory</td>
</tr>
<tr>
<td>Japan</td>
<td>ENCS</td>
<td>Included on inventory</td>
</tr>
<tr>
<td>South Korea</td>
<td>ECL</td>
<td>Included on inventory</td>
</tr>
<tr>
<td>China</td>
<td>SEPA</td>
<td>Included on inventory</td>
</tr>
<tr>
<td>Philippines</td>
<td>PICCS</td>
<td>Not on inventory</td>
</tr>
<tr>
<td>EPA SARA Title III Section 312 (40 CFR 370) Hazard Classification</td>
<td>Acute Health Hazard</td>
<td></td>
</tr>
<tr>
<td>EPA SARA Title III Section 313 (40 CFR 372) Component(s) above 'de minimus' level</td>
<td>None</td>
<td></td>
</tr>
<tr>
<td>US. California Safe Drinking Water &amp; Toxic Enforcement Act (Proposition 65)</td>
<td>This product does not contain any chemicals known to State of California to cause cancer, birth defects or any other harm.</td>
<td></td>
</tr>
</tbody>
</table>

16. OTHER INFORMATION

HMIS Rating:

- Health: 3
- Flammability: 1
- Physical hazard: 0

Latest revision: March, 2016