SAFETY DATA SHEET
FOR INDUSTRIAL USE ONLY
Epoxy Resin part A

Section 1. Product and company identification

<table>
<thead>
<tr>
<th>Product Identifier</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Product Name:</strong></td>
</tr>
<tr>
<td>POWER-PATCH EPOXY SEALER PART A</td>
</tr>
<tr>
<td><strong>Product Number:</strong></td>
</tr>
<tr>
<td>680</td>
</tr>
<tr>
<td><strong>Recommended Use:</strong></td>
</tr>
<tr>
<td>Floor resurface or maintenance</td>
</tr>
<tr>
<td><strong>Uses Advised Against:</strong></td>
</tr>
<tr>
<td>For Industrial and Institutional Use Only</td>
</tr>
<tr>
<td><strong>Manufacturer/Supplier:</strong></td>
</tr>
<tr>
<td>INTERSTATE PRODUCTS INC</td>
</tr>
<tr>
<td>6561 Palmer Park Circle Suite A</td>
</tr>
<tr>
<td>SARASOTA FL, 34238</td>
</tr>
<tr>
<td><strong>Company Phone #</strong></td>
</tr>
<tr>
<td>(941) 377-8610</td>
</tr>
<tr>
<td>1-800-535-5053 (North America)</td>
</tr>
<tr>
<td><strong>Emergency Phone (24 Hr)</strong></td>
</tr>
<tr>
<td>1-352-323-3500 (International)</td>
</tr>
</tbody>
</table>

Infotrac

Section 2. Hazards identification

Classification of the substance or mixture:
- SKIN CORROSION/IRRITATION - Category 2
- SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A
- SKIN SENSITIZATION - Category 1
- SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
  - [Respiratory tract irritation] - Category 3

GHS label elements

Hazard pictograms: 🚨
Signal word: Warning
Hazard statements:
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H317 May cause an allergic skin reaction.
- H335 May cause respiratory irritation.
Precautionary statements

General : Not applicable.

Prevention : Wear protective gloves.
Wear eye or face protection.
Use only outdoors or in a well-ventilated area.
Avoid breathing vapor.
Wash hands thoroughly after handling.
Contaminated work clothing should not be allowed out of the workplace.

Response : IF INHALED:
Remove victim to fresh air and keep at rest in a position comfortable for breathing.
Call a POISON CENTER or physician if you feel unwell.
IF ON SKIN:
Wash with plenty of soap and water.
Take off contaminated clothing.
Wash contaminated clothing before reuse.
If skin irritation or rash occurs:
Get medical attention.
IF IN EYES:
Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists:
Get medical attention.

Storage : Store locked up.

Disposal : Dispose of contents and container in accordance with all local, regional, national and international regulations.

Other hazards which do not result in classification : None known.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>% by weight</th>
<th>CAS number</th>
</tr>
</thead>
<tbody>
<tr>
<td>4,4'-Isopropylidenediphenol-Epichlorohydrin Copolymer</td>
<td>70 - 90</td>
<td>25068-38-6</td>
</tr>
</tbody>
</table>

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.
Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures
**Eye contact**

Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

**Inhalation**

Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

**Skin contact**

Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

**Ingestion**

Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

**Indication of immediate medical attention and special treatment needed, if necessary**

**Notes to physician**

Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

**Specific treatments**

No specific treatment.

**Protection of first aid personnel**

No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

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**Section 5. Fire-fighting measures**

**Extinguishing media**

**Suitable extinguishing media**

Use an extinguishing agent suitable for the surrounding fire.

**Unsuitable extinguishing media**

None known.

**Specific hazards arising from the chemical**

In a fire or if heated, a pressure increase will occur and the container may burst.
**Section 6. Accidental release measures**

**Personal precautions, protective equipment and emergency procedures**

**For non-emergency personnel**
No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

**For emergency responders**
If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**Environmental precautions**
Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

**Methods and materials for containment and cleaning up**

**Small spill**
Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

**Large spill**
Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13 of SDS). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see section 1 of SDS for emergency contact information and section 13 of SDS for waste disposal.

**Section 7. Handling and storage**

**Precautions for safe handling**

**Protective measures**
Put on appropriate personal protective equipment (see section 8 of...
Epoxy Resin Part A

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

None.

Recommended monitoring procedures : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

Appropriate engineering controls : Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Environmental exposure controls : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection : Safety eyewear complying with an approved standard should be used.

Advice on general occupational hygiene : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10 of SDS) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

SDS). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

**Skin protection**

**Hand protection**: 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. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

**Body protection**: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Other skin protection**: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Respiratory protection**: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

## Section 9. Physical and chemical properties

### Appearance

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Liquid</td>
</tr>
<tr>
<td>Color</td>
<td>Yellow</td>
</tr>
<tr>
<td>Odor</td>
<td>Not available</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>Not available</td>
</tr>
<tr>
<td>pH</td>
<td>Not available</td>
</tr>
<tr>
<td>Melting point/ Freezing point</td>
<td>Not available</td>
</tr>
<tr>
<td>Boiling point</td>
<td>Not available</td>
</tr>
<tr>
<td>Flash point</td>
<td>Setaflash Closed Cup: 93.33 °C (199.99 °F) (ASTM D 3828)</td>
</tr>
<tr>
<td>Burning time</td>
<td>Not available</td>
</tr>
<tr>
<td>Burning rate</td>
<td>Not available</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not available</td>
</tr>
</tbody>
</table>
| Lower and upper explosive (flammable) limits | **Lower**: Not available  
**Upper**: Not available |
| Vapor pressure                   | 1.33 mbar                          |
| Vapor density                    | 1 [Air = 1]                        |
| Relative density                 | 1.1                                |
Solubility : Not available
Solubility in water : Slightly

Partition coefficient: n-octanol/water : Not available
Auto-ignition temperature : Not available
Decomposition temperature : Not available
SADT : Not available
Viscosity : Dynamic: Not available
          Kinematic: Not available

Other information
No additional information.

**Section 10. Stability and reactivity**

Reactivity : Stable under normal conditions.
Chemical stability : The product is stable.
Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid : Avoid all possible sources of ignition (spark or flame). Extremes of temperature and direct sunlight. Surfaces that are sufficiently hot may ignite even liquid product in the absence of sparks or flame.
Incompatible materials : Reactive or incompatible with the following materials:
          strong oxidizing agents,
          strong acids,
          aliphatic amines,
Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Other hazards : Heating this substance above 300 deg. F in the presence of air may cause slow oxidative decomposition; above 500 deg. F polymerization may occur.
          Some combinations of resins and curing agents can produce exothermic reactions which in large masses can cause runaway polymerization and charring of the reactants

**Section 11. Toxicological information**

**Information on toxicological effects**

**Acute toxicity**

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Dose</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>4,4’-Isopropylidenediphenol-Epichlorohydrin Copolymer</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>11,400 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td>Oxirane, Mono[(C12-14-alkyloxy)methyl] Derivs.</td>
<td>LD50 Dermal</td>
<td>Rat</td>
<td>2,000 mg/kg</td>
<td>-</td>
</tr>
</tbody>
</table>
### Conclusion/Summary

Not available

### Irritation/Corrosion

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Score</th>
<th>Exposure</th>
<th>Observation</th>
</tr>
</thead>
<tbody>
<tr>
<td>4,4'-Isopropylidenediphenol-Epichlorohydrin Copolymer</td>
<td>Skin - Erythema/Escar 404 Acute Dermal Irritation/Corrosion</td>
<td>Rabbit</td>
<td>1.5 - 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Skin - Edema 404 Acute Dermal Irritation/Corrosion</td>
<td>Rabbit</td>
<td>1.0 - 1.5</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>eyes - 405 Acute Eye Irritation/Corrosion</td>
<td>Rabbit</td>
<td>0</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>eyes - Redness of the conjunctiva</td>
<td>Rabbit</td>
<td>0.7</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Skin - Moderate irritant</td>
<td>Rabbit</td>
<td>24 hrs</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Skin - Severe irritant</td>
<td>Rabbit</td>
<td>24 hrs</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oxirane, Mono[(C12-14-alkyloxy)methyl] Derivs.</td>
<td>Skin - Primary dermal irritation index (PDII) OTS 798.4470 Acute Dermal Irritation</td>
<td>Rabbit</td>
<td>4.1</td>
<td>24 hrs</td>
<td>72 hrs</td>
</tr>
<tr>
<td></td>
<td>Skin - Primary dermal irritation index (PDII) 404 Acute Dermal Irritation/Corrosion</td>
<td>Rabbit</td>
<td>5.75</td>
<td>24 hrs</td>
<td>72 hrs</td>
</tr>
<tr>
<td>Substance</td>
<td>Route of exposure</td>
<td>Species</td>
<td>Dose</td>
<td>Exposure</td>
<td></td>
</tr>
<tr>
<td>-----------</td>
<td>------------------</td>
<td>---------</td>
<td>------</td>
<td>----------</td>
<td></td>
</tr>
<tr>
<td>4,4'-Isopropylidenediphenol-Epichlorohydrin Copolymer</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td></td>
</tr>
</tbody>
</table>

**Remarks:** No adverse reproductive effects were observed in an O.E.C.D. Test Guideline no. 416 GLP two-generation rat oral gavage study conducted up to a high dose level of 750 mg/kg/day that resulted in adult body weight decrements.

**Conclusion/Summary**
Skin: Not available
Eye: Not available
Respiratory: Not available

**Sensitization**
Skin: Not available
Eye: Not available
Respiratory: Not available

**Mutagenicity**
Conclusion/Summary: Not available

**Carcinogenicity**
Conclusion/Summary: Not available

**Reproductive toxicity**

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Maternal toxicity</th>
<th>Fertility</th>
<th>Development toxicity</th>
<th>Species</th>
<th>Dose</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>4,4'-Isopropylidenediphenol-Epichlorohydrin Copolymer</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

**Teratogenicity**
Conclusion/Summary: Not available

**Specific target organ toxicity (single exposure)**

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Category</th>
<th>Route of exposure</th>
<th>Target organs</th>
</tr>
</thead>
<tbody>
<tr>
<td>4,4'-Isopropylidenediphenol-Epichlorohydrin Copolymer</td>
<td>Category 3</td>
<td>Respiratory tract irritation</td>
<td></td>
</tr>
<tr>
<td>Oxirane, Mono[(C12-14-alkyloxy)methyl] Derivs.</td>
<td>Category 3</td>
<td>Respiratory tract irritation</td>
<td></td>
</tr>
</tbody>
</table>

**Specific target organ toxicity (repeated exposure)**
Not available
**Aspiration hazard**
Not available

**Information on the likely routes of exposure**
Not available

**Potential acute health effects**

- **Eye contact**: Causes serious eye irritation.
- **Inhalation**: May cause respiratory irritation.
- **Skin contact**: Causes skin irritation. May cause an allergic skin reaction.
- **Ingestion**: Irritating to mouth, throat and stomach.

**Symptoms related to the physical, chemical and toxicological characteristics**

- **Eye contact**: Adverse symptoms may include the following:
  - Pain or irritation
  - Watering
  - Redness

- **Inhalation**: Adverse symptoms may include the following:
  - Respiratory tract irritation
  - Coughing

- **Skin contact**: Adverse symptoms may include the following:
  - Irritation
  - Redness

- **Ingestion**: No specific data.

**Delayed and immediate effects and also chronic effects from short and long term exposure**

**Short term exposure**

- **Potential immediate effects**: Not available
- **Potential delayed effects**: Not available

**Long term exposure**

- **Potential immediate effects**: Not available
- **Potential delayed effects**: Not available

**Potential chronic health effects**

**Conclusion/Summary**: Not available

**General**: Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

**Carcinogenicity**: No known significant effects or critical hazards.

**Mutagenicity**: No known significant effects or critical hazards.

**Teratogenicity**: No known significant effects or critical hazards.

**Developmental effects**: No known significant effects or critical hazards.

**Fertility effects**: No known significant effects or critical hazards.

**Numerical measures of toxicity**

**Acute toxicity estimates**
Not available
Section 12. Ecological information

Toxicity

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>reaction product: bisphenol-A-(epichlorohydrin); epoxy resin (number average molecular weight ≤ 700)</td>
<td>Acute LC50 1.3 mg/l - 203 Fish, Acute Toxicity Test</td>
<td>Fish - Fish</td>
<td>96 h</td>
</tr>
<tr>
<td></td>
<td>Acute EC50 2.1 mg/l - 202 Daphnia sp. Acute Immobilization Test and Reproduction Test</td>
<td>Aquatic invertebrates. Water flea</td>
<td>48 h</td>
</tr>
<tr>
<td></td>
<td>Acute NOEC 0.3 mg/l - 211 Daphnia Magna Reproduction Test</td>
<td>Aquatic invertebrates. Water flea</td>
<td>21 d</td>
</tr>
<tr>
<td></td>
<td>Acute LC50 &gt; 11 mg/l -</td>
<td>Aquatic plants - Algae</td>
<td>72 h</td>
</tr>
<tr>
<td>oxirane, mono[(C12-14-alkyloxy)methyl] derivs.</td>
<td>Acute LC50 &gt; 1.8 g/l - 203 Fish, Acute Toxicity Test</td>
<td>Fish - Rainbow trout, donaldson trout</td>
<td>96 h</td>
</tr>
<tr>
<td></td>
<td>Acute LC50 &gt; 5.0 g/l - 203 Fish, Acute Toxicity Test</td>
<td>Fish - Bluegill</td>
<td>96 h</td>
</tr>
<tr>
<td></td>
<td>Acute EC50 7.2 mg/l - 202 Daphnia sp. Acute Immobilization Test and Reproduction Test</td>
<td>Aquatic invertebrates. Water flea</td>
<td>48 h</td>
</tr>
<tr>
<td></td>
<td>Acute EC50 844 mg/l - 201 Alga, Growth Inhibition Test</td>
<td>Aquatic plants - Algae</td>
<td>72 h</td>
</tr>
</tbody>
</table>

Conclusion/Summary : Not available

Persistence/degradability

Conclusion/Summary : Not available

Bioaccumulative potential

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>LogPow</th>
<th>BCF</th>
<th>Potential</th>
</tr>
</thead>
<tbody>
<tr>
<td>4,4'-Isopropylidenediphenol-Epichlorohydrin Copolymer</td>
<td>2.64 - 3.78</td>
<td>3 - 31 31.00</td>
<td>Low</td>
</tr>
<tr>
<td>Oxirane, Mono[(C12-14-alkyloxy)methyl] Derivs.</td>
<td>3.77</td>
<td>160 - 263 160.00</td>
<td>Low</td>
</tr>
</tbody>
</table>

Mobility in soil

Soil/water partition coefficient (KOC) : Not available

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products
should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

**Section 14. Transport information**

The data provided in this section is for information only and may not be specific to your package size or mode of transport. You will need to apply the appropriate regulations to properly classify your shipment for transportation.

<table>
<thead>
<tr>
<th>International transport regulations</th>
<th>UN/NA number</th>
<th>Proper shipping name</th>
<th>Classes/*PG</th>
<th>Reportable Quantity (RQ)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CFR</td>
<td>Non-regulated</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TDG</td>
<td>Non-regulated</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>IMO/IMDG</td>
<td>Non-regulated</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>IATA (Cargo)</td>
<td>Non-regulated</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*PG : Packing group

**Special precautions for user**

Transport within user’s premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.’

**Section 15. Regulatory information**

**United States**

**U.S. Federal regulations**

United States - TSCA 12(b) - Chemical export notification: None required.

United States - TSCA 5(a)2 - Final significant new use rules: Not listed

United States - TSCA 5(a)2 - Proposed significant new use rules: Not listed

United States - TSCA 5(e) - Substances consent order: Not listed

SARA 302 Extremely Hazardous Substances: None required.

SARA 302/304/311/312 hazardous chemicals: None required.
SARA 302/304
Composition/information on ingredients

<table>
<thead>
<tr>
<th>Name</th>
<th>EHS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oxirane, 2-(chloromethyl)-</td>
<td>Yes.</td>
</tr>
</tbody>
</table>

California Prop. 65: WARNING: This product contains less than 0.1% of a chemical known to the State of California to cause cancer., WARNING: This product contains less than 1% of a chemical known to the State of California to cause birth defects or other reproductive harm.

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>Cancer</th>
<th>Reproductive</th>
<th>No significant risk level</th>
<th>Maximum acceptable dosage level</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oxirane, 2-(phenoxy)methyl-</td>
<td>Yes.</td>
<td>No.</td>
<td>5 µg/day</td>
<td>No.</td>
</tr>
<tr>
<td>Oxirane, 2-(chloromethyl)-</td>
<td>Yes.</td>
<td>Yes.</td>
<td>9 µg/day</td>
<td></td>
</tr>
</tbody>
</table>

United States inventory (TSCA 8b): All components are listed or exempted.

Canada

WHMIS (Canada): Class D-2B: Material causing other toxic effects (Toxic).

Canadian lists

Canadian NPRI: None required.

CEPA Toxic substances: None required.

International regulations

International lists: Australia inventory (AICS): All components are listed or exempted.
Canada inventory: All components are listed or exempted.
Japan inventory: All components are listed or exempted.
China inventory (IECSC): All components are listed or exempted.
Korea inventory: All components are listed or exempted.
New Zealand Inventory (NZIoC): All components are listed or exempted.
Philippines inventory (PICCS): All components are listed or exempted.
United States inventory (TSCA 8b): All components are listed or exempted.
Taiwan inventory (CSNN): All components are listed or exempted.

Section 16. Other information

Hazardous Material Information System III (U.S.A.):

<table>
<thead>
<tr>
<th>Health</th>
<th>Flammability</th>
<th>Physical hazards</th>
</tr>
</thead>
<tbody>
<tr>
<td>*</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>1</td>
<td></td>
</tr>
<tr>
<td></td>
<td>0</td>
<td></td>
</tr>
</tbody>
</table>

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on MSDSs under 29 CFR
1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA).

Full text of abbreviated H statements: Not applicable.

History

Date of printing: 05/21/2015
Date of issue/Date of revision: 02/04/2015
Date of previous issue: 03/08/2012
Prepared by: Staff

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.
FOR INDUSTRIAL USE ONLY
Epoxy Curing Agent

Section 1. Product and company identification

Product Identifier
Product Name: POWER-PATCH EPOXY SEALER B
Product Number: 680
Recommended Use: Floor or surface treatment
Uses Advised Against: For Industrial and Institutional Use Only
Manufacturer/Supplier:
INTERSTATE PRODUCTS INC
6551 Palmer Park Circle Suite A
SARASOTA FL, 34238
Company Phone # (941) 377-8610
Emergency Phone (24 Hr) 1-800-535-5053 (North America) 1-352-323-3500 (International)

Section 2. Hazards identification

Classification of the substance or mixture
ACUTE TOXICITY: dermal - Category 4
SKIN CORROSION/IRRITATION - Category 1B
SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1
RESPIRATORY SENSITIZATION - Category 1
SKIN SENSITIZATION - Category 1
TOXIC TO REPRODUCTION [Fertility] - Category 2
TOXIC TO REPRODUCTION [Unborn child] - Category 2
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) [eyes, mucous membranes] - Category 1
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) [skin, respiratory tract, kidneys, liver] - Category 1

GHS label elements
Hazard pictograms
Signal word: Danger
**Hazard statements**

H312 Harmful in contact with skin.
H314 Causes severe skin burns and eye damage.
H318 Causes serious eye damage.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H317 May cause an allergic skin reaction.
H361f Suspected of damaging fertility.
H361d Suspected of damaging the unborn child.
H370 Causes damage to organs: (eyes, mucous membranes)
H372 Causes damage to organs through prolonged or repeated exposure: (skin, respiratory tract, kidneys, liver)

**Precautionary statements**

**General**

Not applicable.

**Prevention**

Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Use personal protective equipment as required.
Wear protective gloves.
Wear eye or face protection.
Wear protective clothing.
In case of inadequate ventilation wear respiratory protection.
Do not breathe vapor.
Do not eat, drink or smoke when using this product.
Wash hands thoroughly after handling.
Contaminated work clothing should not be allowed out of the workplace.

**Response**

Get medical attention if you feel unwell.
IF exposed:
Call a POISON CENTER or physician.

**IF INHALED:**
Remove victim to fresh air and keep at rest in a position comfortable for breathing.
Immediately call a POISON CENTER or physician.
If experiencing respiratory symptoms:
Call a POISON CENTER or physician.

**IF SWALLOWED:**
Immediately call a POISON CENTER or physician.
Rinse mouth.
Do NOT induce vomiting.

**IF ON SKIN (or hair):**
Take off immediately all contaminated clothing.
Rinse skin with water or shower.
Wash contaminated clothing before reuse.
Immediately call a POISON CENTER or physician.

**IF ON SKIN:**
Wash with plenty of soap and water.
Call a POISON CENTER or physician if you feel unwell.
If skin irritation or rash occurs:
Get medical attention.

**IF IN EYES:**
Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or physician.

**Storage**
Store locked up.

**Disposal**
Dispose of contents and container in accordance with all local, regional, national and international regulations.

**Other hazards which do not result in classification**
None known.

### Section 3. Composition/information on ingredients

**Substance/mixture**
Mixture

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>% by weight</th>
<th>CAS number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fatty acids, tall-oil, reaction products with tetraethylenepentamine</td>
<td>90 - 100</td>
<td>68953-36-6</td>
</tr>
<tr>
<td>Tetraethylenepentamine</td>
<td>10 - 12.5</td>
<td>112-57-2</td>
</tr>
<tr>
<td>Triethylenetetramine</td>
<td>0.2 - 1</td>
<td>112-24-3</td>
</tr>
</tbody>
</table>

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section. Occupational exposure limits, if available, are listed in Section 8.

### Section 4. First aid measures

**Description of necessary first aid measures**

**Eye contact**
Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.

**Inhalation**
Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. In the event of any complaints or symptoms, avoid further exposure.

**Skin contact**
Get medical attention immediately. Call a poison center or physician. Wash with plenty of soap and water. Remove contaminated clothing.
and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes.

Chemical burns must be treated promptly by a physician. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

**Indication of immediate medical attention and special treatment needed, if necessary**

**Notes to physician**

In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

**Specific treatments**

No specific treatment.

**Protection of first aid personnel**

No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

**See toxicological information (Section 11)**

### Section 5. Fire-fighting measures

**Extinguishing media**

**Suitable extinguishing media**

Use an extinguishing agent suitable for the surrounding fire.

**Unsuitable extinguishing media**

None known.

**Specific hazards arising from the chemical**

In a fire or if heated, a pressure increase will occur and the container may burst.

**Hazardous thermal decomposition products**

Decomposition products may include the following materials:
- nitrogen oxides
- carbon oxides
- other organic compounds

**Special protective actions for fire-fighters**

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

**Special protective equipment for fire-fighters**

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up

Small spill: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill: Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13 of SDS). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see section 1 of SDS for emergency contact information and section 13 of SDS for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

Protective measures: Put on appropriate personal protective equipment (see section 8 of SDS). Persons with a history of skin sensitization problems or asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities: Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10 of SDS) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

## Section 8. Exposure controls/personal protection

### Control parameters

#### Occupational exposure limits

<table>
<thead>
<tr>
<th>Chemical</th>
<th>AIHA WEEL (2004-01-01)</th>
<th>Time Weighted Average (TWA)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tetraethylenepentamine</td>
<td></td>
<td>5 mg/m3</td>
</tr>
<tr>
<td>Triethylenetetramine</td>
<td>AIHA WEEL (1999-01-01)</td>
<td>1 ppm</td>
</tr>
<tr>
<td></td>
<td>NIOSH REL (2005-09-30)</td>
<td></td>
</tr>
</tbody>
</table>

### Recommended monitoring procedures: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

### Appropriate engineering controls: Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

### Environmental exposure controls: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

### Individual protection measures

#### Hygiene measures: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash
contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye/face protection**

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.

**Skin protection**

**Hand protection**

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. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

**Body protection**

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Other skin protection**

Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Respiratory protection**

Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

---

**Section 9. Physical and chemical properties**

**Appearance**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Liquid</td>
</tr>
<tr>
<td>Color</td>
<td>Reddish-brown</td>
</tr>
<tr>
<td>Odor</td>
<td>amine.</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>Not available</td>
</tr>
<tr>
<td>pH</td>
<td>Not available</td>
</tr>
<tr>
<td>Melting point/ Freezing point</td>
<td>Not available</td>
</tr>
<tr>
<td>Boiling point</td>
<td>218.33 °C (424.99 °F)</td>
</tr>
<tr>
<td>Flash point</td>
<td>93.4 °C (200.12 °F)</td>
</tr>
<tr>
<td>Burning time</td>
<td>Not available</td>
</tr>
<tr>
<td>Burning rate</td>
<td>Not available</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>1 ((n-Butyl acetate=1))</td>
</tr>
</tbody>
</table>
### Flammability (solid, gas)

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lower and upper explosive limits</td>
<td>Not available</td>
</tr>
<tr>
<td>Lower:</td>
<td>Not available</td>
</tr>
<tr>
<td>Upper:</td>
<td>Not available</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>Not available</td>
</tr>
<tr>
<td>Vapor density</td>
<td>1 [Air = 1]</td>
</tr>
<tr>
<td>Relative density</td>
<td>0.96</td>
</tr>
<tr>
<td>Solubility in water</td>
<td>Insoluble</td>
</tr>
<tr>
<td>Solubility</td>
<td>Not available</td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>Not available</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>Not available</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>Not available</td>
</tr>
<tr>
<td>SADT</td>
<td>Not available</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Dynamic: Not available</td>
</tr>
<tr>
<td>Kinematic</td>
<td>Not available</td>
</tr>
</tbody>
</table>

### Other information

No additional information.

---

### Section 10. Stability and reactivity

**Reactivity**: Stable under normal conditions.

**Chemical stability**: The product is stable.

**Possibility of hazardous reactions**: Under normal conditions of storage and use, hazardous reactions will not occur.

**Conditions to avoid**: Strong oxidizer, Keep away from heat, sparks, flame and other ignition sources.

**Incompatible materials**: strong oxidizing agents,

**Hazardous decomposition products**: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

**Other hazards**: Heating this substance above 300 deg. F in the presence of air may cause slow oxidative decomposition; above 500 deg. F polymerization may occur. Some combinations of resins and curing agents can produce exothermic reactions which in large masses can cause runaway polymerization and charring of the reactants. Fumes and vapors from the thermal and chemical decompositions vary widely in composition and toxicity.

---

### Section 11. Toxicological information
Information on toxicological effects

**Acute toxicity**

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Dose</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Triethylenetetramine</td>
<td>LD50</td>
<td>Oral</td>
<td>Rat</td>
<td>2,500 mg/kg</td>
</tr>
</tbody>
</table>

**Conclusion/Summary:** Not available

**Irritation/Corrosion**

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Score</th>
<th>Exposure</th>
<th>Observation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Triethylenetetramine</td>
<td>eyes - Moderate</td>
<td>Rabbit</td>
<td></td>
<td>24 hrs</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>irritant</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Skin - Severe</td>
<td>Rabbit</td>
<td></td>
<td>24 hrs</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>irritant</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>eyes - Severe</td>
<td>Rabbit</td>
<td></td>
<td></td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>irritant</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Conclusion/Summary**

| Skin                      | Not available       |
|                          |                    |
| eyes                     | Not available       |
| Respiratory              | Not available       |

**Sensitization**

**Conclusion/Summary**

| Skin                      | Not available       |
|                          |                    |
| Respiratory              | Not available       |

**Mutagenicity**

**Conclusion/Summary**

| Not available |

**Carcinogenicity**

**Conclusion/Summary**

| Not available |

**Reproductive toxicity**

**Conclusion/Summary**

| Not available |

**Teratogenicity**

**Conclusion/Summary**

| Not available |

**Specific target organ toxicity (single exposure)**

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Category</th>
<th>Route of exposure</th>
<th>Target organs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fatty acids, tall-oil,</td>
<td>Category 3</td>
<td>Respiratory tract</td>
<td>Respiratory tract irritation</td>
</tr>
<tr>
<td>reaction products with</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>tetraethylenepentamine</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tetraethylenepentamine</td>
<td>Category 1</td>
<td></td>
<td>eyes</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>mucous membranes</td>
</tr>
</tbody>
</table>
**Specific target organ toxicity (repeated exposure)**

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Category</th>
<th>Route of exposure</th>
<th>Target organs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tetraethylenepentamine</td>
<td>Category 1</td>
<td></td>
<td>skin, respiratory tract, liver, kidneys</td>
</tr>
<tr>
<td></td>
<td>Category 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Triethylenetetramine</td>
<td>Category 1</td>
<td></td>
<td>respiratory tract, skin, liver, kidneys</td>
</tr>
<tr>
<td></td>
<td>Category 2</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Aspiration hazard**

Not available

**Information on the likely routes of exposure**

: Not available

**Potential acute health effects**

**Eye contact**

: Causes serious eye damage.

**Inhalation**

: May give off gas, vapor or dust that is very irritating or corrosive to the respiratory system. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.

**Skin contact**

: Causes severe burns. Harmful in contact with skin. May cause an allergic skin reaction.

**Ingestion**

: May cause burns to mouth, throat and stomach.

**Symptoms related to the physical, chemical and toxicological characteristics**

**Eye contact**

: Adverse symptoms may include the following:

  - pain
  - watering
  - redness

**Inhalation**

: Adverse symptoms may include the following:

  - wheezing and breathing difficulties
  - asthma
  - reduced fetal weight
  - increase in fetal deaths
  - skeletal malformations

**Skin contact**

: Adverse symptoms may include the following:

  - pain or irritation
  - redness
  - blistering may occur
  - reduced fetal weight
  - increase in fetal deaths
  - skeletal malformations

**Ingestion**

: Adverse symptoms may include the following:
Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects : Not available
Potential delayed effects : Not available

Long term exposure

Potential immediate effects : Not available
Potential delayed effects : Not available

Potential chronic health effects

Conclusion/Summary : Not available

General : Causes damage to organs through prolonged or repeated exposure:
          Once sensitized, a severe allergic reaction may occur when
          subsequently exposed to very low levels.

Carcinogenicity : No known significant effects or critical hazards.
Mutagenicity : No known significant effects or critical hazards.
Teratogenicity : Suspected of damaging the unborn child.
Developmental effects : No known significant effects or critical hazards.
Fertility effects : Suspected of damaging fertility.

Numerical measures of toxicity

Acute toxicity estimates

Not available

Section 12. Ecological information

Toxicity

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>3,6-diazaocanethylenediamin</td>
<td>Acute LC50 33,900 µg/l Fresh water</td>
<td>Aquatic invertebrates. Water flea</td>
<td>48 h</td>
</tr>
<tr>
<td></td>
<td>Acute EC50 3,700 µg/l Fresh water</td>
<td>Aquatic plants - Green algae</td>
<td>96 h</td>
</tr>
</tbody>
</table>

Conclusion/Summary : Not available

Persistence/degradability

Conclusion/Summary : Not available
### Bioaccumulative potential

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>LogPow</th>
<th>BCF</th>
<th>Potential</th>
</tr>
</thead>
<tbody>
<tr>
<td>Triethyleneetramine</td>
<td>-1.66 - -1.4</td>
<td>-</td>
<td>low</td>
</tr>
</tbody>
</table>

### Mobility in soil

- **Soil/water partition coefficient (KOC)**: Not available
- **Other adverse effects**: No known significant effects or critical hazards.

### Section 13. Disposal considerations

**Disposal methods**

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

### Section 14. Transport information

The data provided in this section is for information only and may not be specific to your package size or mode of transport. You will need to apply the appropriate regulations to properly classify your shipment for transportation.

<table>
<thead>
<tr>
<th>International transport regulations</th>
<th>Regulatory information</th>
<th>UN/NA number</th>
<th>Proper shipping name</th>
<th>Classes/*PG</th>
<th>Reportable Quantity (RQ)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CFR</td>
<td>Non-regulated</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TDG</td>
<td>Non-regulated</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>IMO/IMDG</td>
<td>Non-regulated</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>IATA (Cargo)</td>
<td>Non-regulated</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*PG : Packing group

**Special precautions for user**

Transport within user’s premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident.
or spillage.’

Section 15. Regulatory information

United States

HCS Classification : Irritating material
Sensitizing material
Target organ effects

U.S. Federal regulations : United States - TSCA 12(b) - Chemical export notification: None required.
United States - TSCA 5(a)2 - Final significant new use rules: Not listed
United States - TSCA 5(a)2 - Proposed significant new use rules: Not listed
United States - TSCA 5(e) - Substances consent order: Not listed

California Prop. 65: None required.

United States inventory (TSCA 8b) : All components are listed or exempted.

Canada

WHMIS (Canada) : Class D-1B: Material causing immediate and serious toxic effects (Toxic).
Class D-2A: Material causing other toxic effects (Very toxic).
Class D-2B: Material causing other toxic effects (Toxic).

Canadian lists

Canadian NPRI : None required.
CEPA Toxic substances : None required.

International regulations

International lists : Australia inventory (AICS): All components are listed or exempted.
Canada inventory: All components are listed or exempted.
Japan inventory: All components are listed or exempted.
China inventory (IECSC): All components are listed or exempted.
Korea inventory: All components are listed or exempted.
New Zealand Inventory (NZIoC): All components are listed or exempted.
Philippines inventory (PICCS): All components are listed or exempted.
United States inventory (TSCA 8b): All components are listed or exempted.
Taiwan inventory (CSNN): Not determined.

Section 16. Other information

Hazardous Material Information System III (U.S.A.) :
Health | * | 2
Flammability | 1
Physical hazards | 0

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA).

Full text of abbreviated H statements: Not applicable.

History

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Prepared by: Staff

Disclaimer

The information provided herein was believed to be accurate at the time of preparation or prepared from sources believed to be reliable, but it is the responsibility of the user to investigate and understand other pertinent sources of information, to comply with all laws and procedures applicable to the safe handling and use of the product and to determine the suitability of the product for its intended use. To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.