



## E4E-100-VRM A

### SECTION 1. IDENTIFICATION

<b>Product identifier</b>	E4E-100-VRM A
<b>Other Means of Identification</b>	None
<b>Recommended Use</b>	Epoxy Resin – Vapor reduction membrane
<b>Restrictions on Use</b>	Unknown
<b>Supplier Identifier</b>	Polypro Industry 2700 Cumberland street building 5 Lebanon PA, 17042
<b>Emergency Phone No.</b>	717-454-6556

### SECTION 2. HAZARD IDENTIFICATION

<b>Classification</b>	Skin Sensitization Category 1B Skin Corrosion/irritation Category 2 Serious eye damage/irritation Category 2A Acute Toxicity, Oral Category 5 Hazardous to the aquatic environment - acute Category 2 Hazardous to the aquatic environment - chronic Category 2
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#### Label Elements



#### Signal Word

Warning

#### Hazard Statements

H303: May be harmful if swallowed  
H315: Causes skin irritation  
H317: May cause an allergic skin reaction  
H319: Causes serious eye irritation  
H401: Toxic to aquatic life  
H411: Toxic to aquatic life with long lasting effects

#### Precautionary statements

##### Prevention:

P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P264 Wash with plenty of water and soap thoroughly after handling. P272 Contaminated work clothing should not be allowed out of the workplace. P280 Wear protective gloves/eye protection. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. P337 + P313 If eye irritation persists: Get medical advice/attention. P302 + P352 IF ON SKIN: Wash with plenty of water. P333 + P313 If skin irritation or rash occurs: Get medical advice/attention. P312 IF SWALLOWED: Call a



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POISON Center/doctor/...if you feel unwell. P362 + P364 Take off contaminated clothing and wash before reuse. P273 Avoid release to the environment. P391 Collect spillage. P501 Dispose of contents/container into safe container in accordance with local, regional or national regulations.

**Other Hazards:** Unknown

Chemical Name	CAS No.	% concentration
Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin	25085-99-8	60 - 100 %
alkyl glycidyl ether	68609-97-2	1 - 10 %
benzyl alcohol	100-51-6	1 - 10 %

## SECTION 4. FIRST-AID MEASURES

### **First-aid Measures**

#### **Ingestion:**

IF SWALLOWED: Call a POISON Center/doctor/...if you feel unwell.

#### **Skin Contact:**

Flush with soap and water for a minimum of 15 minutes. Consult a physician if irritation persists or you feel unwell.

#### **Eye Contact:**

Rinse immediately with plenty of water for at least 15 minutes. Consult a physician.

### **Most Important Symptoms and Effects, Acute and Delayed**

#### **If inhaled:**

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

#### **If on skin:**

Harmful if in contact with the skin. Causes skin irritation. Exposure may produce an allergic reaction

#### **If in eyes:**

Causes serious eye damage.

#### **If Ingested:**

Ingestion is likely to be harmful or have adverse effects

### **Immediate Medical Attention and Special Treatment:**

#### **Special Instructions:**

If a physician or medical attention is required, have product container or label at hand.

## SECTION 5. FIRE-FIGHTING MEASURES

### **Extinguishing Media**

#### **Suitable Extinguishing Media**

In case of fire: water fog, foam, dry chemical powder, carbon dioxide (CO2)

#### **Unsuitable Extinguishing Media**

Do not use water jet as an extinguisher, as this might spread the fire.

### **Specific Hazards Arising from the Product**

During fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating.

### **Special Protective Equipment and Precautions for Fire-fighters**

Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire-fighting clothing. Avoid contact with this material during fire-fighting operations. If contact is likely, change to full chemical resistant fire-fighting clothing with self-contained breathing apparatus.



## SECTION 6. ACCIDENTAL RELEASE MEASURES

### Personal Precautions, Protective Equipment, and Emergency Procedures

Clear area. Ensure adequate ventilation. Wear suitable personal protective clothing and equipment.

### Methods and Materials for Containment and Clean up

For containment, ensure adequate ventilation and absorb any spill with inert liquid binding material and dispose of waste safely.

## SECTION 7. HANDLING AND STORAGE

### Precautions for Safe Handling

Avoid prolonged or repeated contact with skin. Avoid contact with eyes, skin, and clothing. Wash thoroughly after handling. When using, do not eat, drink or smoke. Provide adequate ventilation. Wear appropriate personal protective equipment. Avoid use of electric band heaters. Avoid release to the environment. Observe good industrial hygiene practices.

### Conditions for Safe Storage

Store in cool dry and well-ventilated place. Keep stored in accordance with local, regional, national, and international regulations. Store away from incompatible materials.

## SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Control Parameters

All protective clothing should be appropriately clean and available to dress into before work. The engineering measures or controls and PPE recommendations are only guidelines and may not apply to every situation.

Data not available. For additional information, please consult the corresponding requirements under <http://www.ccohs.ca/topics/hazards/chemical/chemicals/>

### Appropriate Engineering Controls

Local exhaust ventilation required. Make up air should be supplied to balance air that is removed by local or general exhaust ventilation. Provide sufficient ventilation to keep vapors below permissible exposure limit. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure all national / local regulations are observed.

### Individual Protection Measures



### General Measures

Do not eat, drink or smoke during work. Avoid all contact with skin or eye. If clothing comes into contact with material, do not allow out of the workplace. Clean hands and any exposed skin thoroughly after work and before breaks.

### Eye / Face Protection

Use tightly sealed goggles or safety glasses with side shields which are resistant to Chemicals.

### Skin Protection

Wear chemical resistant protection gloves. Wear impervious clothing as necessary to



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protect against coming in contact with product.

## Respiratory Protection

If insufficient ventilation, wear respiratory protection.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Clear Liquid
<b>Odor</b>	Odorless
<b>Odor threshold</b>	Not available
<b>pH</b>	Not available
<b>Melting Point</b>	Not available
<b>Initial Boiling Point / Range</b>	Not Available
<b>Flash point</b>	>93
<b>Evaporation rate</b>	Not available
<b>Flammability(solid; gas)</b>	Not available
<b>Lower flammable/explosive limit</b>	Not available
<b>Upper flammable/explosive limit</b>	Not available
<b>Vapor pressure</b>	Not available
<b>Vapor density</b>	Not available
<b>Specific gravity</b>	Not available
<b>Solubility</b>	Partial
<b>Partition coefficient – n- Octanol/water</b>	Not available
<b>Auto-ignition temperature</b>	Not available
<b>Decomposition temperature</b>	Not available
<b>Viscosity</b>	1200 – 1400 cps

### SECTION 10. STABILITY AND REACTIVITY

<b>Reactivity</b>	Non-reactive
<b>Chemical stability</b>	Stable under recommended handling and storage conditions
<b>Possibility of Hazardous reactions</b>	This product will polymerize if mixed with an amine. Considerable heat can evolve.
<b>Conditions to avoid</b>	Avoid temperatures exceeding the flash point. Avoid unintended contact with amines.
<b>Incompatible materials</b>	Strong oxidizers, strong alkalis, strong mineral acids, amines.
<b>Hazardous decomposition products</b>	Unknown

### SECTION 11. TOXICOLOGY INFORMATION

#### Likely Routes of Administration

Inhalation, skin contact, eye contact, ingestion.

#### Acute Toxicity

Oral: Harmful if swallowed.

Dermal: Harmful in contact with skin.



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**LD50 and LC50 Data**

Not available

**Skin Corrosion/Irritation**

Causes skin irritation.

**Serious Eye Damage/ Irritation**

Causes serious eye damage

**STOT (Specific Target Organ Toxicity) – Single Exposure Inhalation**

No data

**Aspiration Hazard**

Not classified based on available data.

**STOT(Specific Target Organ Toxicity) – Repeated Exposure**

No data

**Respiratory and/or Skin Sensitization**

May irritate mucous membranes, eyes, nose, and respiratory passages. May cause asthma attack to persons with pre-existing bronchial hyper reactivity. Exposure to high concentrations may lead to bronchitis, bronchial spasm and pulmonary oedema. Effects are usually reversible. May cause C.N.S. depression with symptoms of nausea, light-headedness, drowsiness, dizziness, loss of coordination

**Carcinogenicity**

Unknown

**Reproductive Toxicity**

Not available

**Germ Cell Mutagenicity**

Not available

**Interactive Effects**

Not available

**SECTION 12. ECOLOGICAL INFORMATION**

Hazardous to aquatic environment

Persistence and degradability: Not enough data available.

Bioaccumulative potential: Bioconcentration potential is moderate.

Mobility in soil: Low potential for mobility in soil.

Other adverse effects: No data available.

**SECTION 13. DISPOSAL CONSIDERATIONS****Disposal Methods**

Dispose of contents/container into safe container in accordance with local, regional or national regulations.

**SECTION 14. TRANSPORT INFORMATION**

UN Number; Proper shipping name; Class(es); Packing group (PG) of the TDG Regulations:

UN3082; ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. ( bisphenol-A-(epichlorhydrin) epoxy resin); CLASS 9; PG III

UN Number; Proper shipping name; Class(es); Packing group (PG) of the IMDG (maritime):

UN3082; ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. ( bisphenol-A-(epichlorhydrin) epoxy resin); CLASS 9; PG III



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UN Number; Proper shipping name; Class(es); Packing group (PG) of the IATA (air):  
 UN3082; ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. ( bisphenol-A-(epichlorhydrin) epoxy resin);  
 CLASS 9; PG III

## SECTION 15. REGULATORY INFORMATION

Safety/health Canadian regulations specifics: Refer to section 2 for the appropriate classification. This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR).  
Environmental Canadian regulations specifics: Refer to section 3 for ingredient(s) of the DSL.

## SECTION 16. OTHER INFORMATION

<b>Date of Preparation</b>	August 2020
<b>Date of Last Revision</b>	June 1, 2014
<b>Revision Indicators</b>	The entire MSDS was change in August 2020 to be in accordance with the WHMIS 2015 which incorporates the Globally Harmonized System of Classification and Labeling of Chemicals for Canadian Workplaces.
<b>References</b>	<ol style="list-style-type: none"> <li>1. CHOHS Fact Sheets September 2016 ©CCOHS 2016</li> <li>2. Supplier's Material Safety Data Sheet(s)</li> </ol>
ACGIH ATE CAS DSL IARC IATA IMDG LC LD NIOSH NTP OSHA PEL STEL TDG TLV TSCA TWA WHMIS	American Conference of Governmental Industrial Hygienists Acute toxicity estimate Chemical Abstract Service Domestic Substance List International Agency for Research on Cancer International Air Transport Association International Maritime Dangerous Goods Code Lethal concentration Lethal Dosage National Institute for Occupational Safety and Health National Toxicology Program (U.S.A.) Occupational Safety and Health Administration (U.S.A.) Permissible Exposure Limit Short-term Exposure Limit Transport of dangerous goods in Canada Threshold Limit Value Toxic Substances Control Act Time Weighted Average Workplace Hazardous Materials Information System

Notice: The facts stated and the recommendations made with respect to the use of this product are based on liable information. No guarantee of accuracy is made. Before using, determine the suitability of the product's intended use. The purchaser assumes all risks and liability for losses, damage, or expenses, directly or indirectly, arising from the handling or use of the product or from any other cause. All recommendations are made on condition that Sealchem will not be liable for any damages resulting from its use since Sealchem cannot control the conditions under which the product will be transported, stored, handled or used by the purchaser.