



# Safety Data Sheet

## E4E-100-VRM B

### SECTION 1. IDENTIFICATION

<b>Product identifier</b>	E4E-100-VRM B
<b>Other Means of Identification</b>	None
<b>Recommended Use</b>	Epoxy hardener
<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>	Acute Toxicity, Oral (Category 4) Acute Toxicity, Dermal (Category 5) Skin Sensitization (Category 1A) Skin Corrosion/irritation (Category 1B) Serious eye damage/irritation (Category 1) Reproductive toxicity (Category 2) Hazardous to the aquatic environment - acute (Category 1) Hazardous to the aquatic environment - chronic (Category 1)
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#### Label Elements



#### Signal Word

Danger

#### Hazard Statements

- H302: Harmful if swallowed
- H317: May cause an allergic skin reaction
- H314: Causes severe skin burns and eye damage
- H318: Causes serious eye damage
- H361: Suspected of damaging fertility or the unborn child
- H400: Very toxic to aquatic life
- H410: Very toxic to aquatic life with long lasting effects

#### Precautionary statements

##### Prevention:

P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P260 Do not breathe dust or mist. P280 Wear protective gloves/protective clothing/eye protection/face protection. P272 Contaminated work clothing should not be allowed out of the workplace. P270 Do not eat, drink or smoke when using this product. P264 Wash with plenty of water and soap



# Safety Data Sheet

thoroughly after handling. P308 + P313 IF exposed or concerned: Get medical advice/attention. 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. P310 Immediately call a POISON CENTER or doctor/physician. P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [shower]. P310 Immediately call a POISON CENTER or doctor/physician. P363 Wash contaminated clothing before reuse. P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P312 Call a POISON CENTER/doctor if you feel unwell. P362 + P364 Take off contaminated clothing and wash before reuse. P273 Avoid release to the environment. P405 Store locked up. P501 Dispose of contents/container into safe container in accordance with local, regional or national regulations.

**Other Hazards:** Unknown

## SECTION 3. COMPOSITION

Chemical Name	CAS No.	% concentration
epoxy adduct	Proprietary	10 - 30 %
isophorone diamine	2855-13-2	10 - 30 %
benzyl alcohol	100-51-6	1 - 10 %
4-nonylphenol, branched	84852-15-3	10 - 30 %
polyoxypropylene diamine	9046-10-0	20 - 40 %

## SECTION 4. FIRST-AID MEASURES

### First-aid Measures

#### **Inhalation:**

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

#### **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.

#### **Ingestion:**

Rinse mouth and then drink plenty of water. Do not induce vomiting. Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions. Immediate medical attention required.

### 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



# Safety Data Sheet

## **Extinguishing Media**

### **Suitable Extinguishing Media**

In case of fire: water fog, foam, dry chemical powder, carbon dioxide (CO<sub>2</sub>)

### **Unsuitable Extinguishing Media**

water jet

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

During fire, nitrous gases, fumes/smoke, isocyanates and vapour may be formed.

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

Self-contained breathing apparatus and turn-out gear must be worn in case of fire.

## **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**

Provide suitable exhaust ventilation at the processing machines. Ensure thorough ventilation of stores and work areas. Avoid aerosol formation. When handling heated product, vapours of the product should be ventilated and respiratory protection used. Wear respiratory protection when spraying. Danger of bursting when sealed gastight. Protect against moisture. If bulging of drum occurs, transfer to well-ventilated area, puncture to relieve pressure, open vent and let stand for 48 hours before resealing.

### **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.



# Safety Data Sheet

## 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 protect against coming in contact with product.

### Respiratory Protection

If insufficient ventilation, wear respiratory protection.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear Liquid
Odor	Slight amine odor
Odor threshold	Not available
pH	Not available
Melting Point	Not available
Initial Boiling Point / Range	Not available
Flash point	>93
Evaporation rate	Not available
Flammability(solid; gas)	Not available
Lower flammable/explosive limit	Not available
Upper flammable/explosive limit	Not available
Vapor pressure	Not available
Vapor density	Not available
Specific gravity	Not available
Solubility	Partial
Partition coefficient – n- Octanol/water	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	200 – 400 cps

## SECTION 10. STABILITY AND REACTIVITY

Reactivity	Non-reactive
Chemical stability	Stable under recommended handling and storage conditions
Possibility of Hazardous reactions	This product will polymerize if mixed with an epoxy resin. Considerable heat can evolve.



# Safety Data Sheet

<b>Conditions to avoid</b>	Avoid temperatures exceeding the flash point. Epoxy resins under uncontrolled conditions.
<b>Incompatible materials</b>	Strong oxidizing agents and acids.
<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.

### 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

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

### Aspiration Hazard

Not classified based on available data.

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

Skin, eyes, central nervous system, respiratory system

### Respiratory and/or Skin Sensitization

No data

### Carcinogenicity

Unknown

### Reproductive Toxicity

Not available

### Germ Cell Mutagenicity

Not available

### Interactive Effects

Not available

## SECTION 12. ECOLOGICAL INFORMATION

Toxic to aquatic life with lasting effects.

This is not required by WHMIS

This is not required by OSHA HCS 2012

## 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



# Safety Data Sheet

**UN Number; Proper shipping name; Class(es); Packing group (PG) of the TDG Regulations:**  
 UN3267; CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (isophorone diamine, 4-nonylphenol, branched); CLASS 8; PG III

**UN Number; Proper shipping name; Class(es); Packing group (PG) of the IMDG (maritime):**  
 UN3267; CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (isophorone diamine, 4-nonylphenol, branched); CLASS 8; PG III

**UN Number; Proper shipping name; Class(es); Packing group (PG) of the IATA (air):**  
 UN3267; CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (isophorone diamine, 4-nonylphenol, branched); CLASS 8; 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).

## 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>CHOHS Fact Sheets September 2016 ©CCOHS 2016</li> <li>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

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