

## SAFETY DATA SHEET

### 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE

**Product Name:** ENDURABOND 450 NS Part B

Synonyms:

**Uses:** Epoxy Hardener

**Suppliers Name:** Polymer Group Ltd  
62 Stonedon Drive, East Tamaki  
Manukau City, New Zealand  
0064 9 274-1400

**Emergency Number:** Ph: 0800 999 001 Mon-Friday 8.00 am – 5.30 pm  
Ph: 09 916 3026 24 hrs

### 2. HAZARDS IDENTIFICATION

**Statement of Hazardous Nature:** Classified as hazardous according to criteria in the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001.

**HSNO Classification:** 6.1E, 6.5A, 6.5B, 6.8B, 6.9B, 8.2C, 8.3A, 9.1D

**HSNO Approval Number:** HSR002658

#### **Hazard and Precautionary Statements:**

##### **Hazard:**

May be harmful if swallowed  
May cause allergy or asthma symptoms or breathing difficulties if inhaled  
May be harmful if swallowed and enters airways  
May cause an allergic skin reaction  
Suspected of damaging fertility or the unborn child  
May cause damage to organs  
May cause damage to organs through prolonged or repeated exposure  
Causes severe skin burns and serious eye damage  
Toxic to aquatic life

##### **Prevention:**

Keep out of reach of children  
Read Safety Data Sheet before use  
Avoid breathing dust, fume, gas, mist, vapours, spray  
In case of inadequate ventilation wear respiratory protection  
Contaminated work clothing should not be allowed out of the workplace.  
Wear protective gloves/clothing and eye/face protection  
Obtain special instructions before use  
Do not handle until all safety precautions have been read and understood.  
Use personal protective equipment as required  
Wash hands thoroughly after handling  
Do not eat, drink or smoke when using this product  
Avoid release to the environment

**Response:**

If medical advice is needed, have product container or label at hand.

Call a Poison Centre or doctor/physician if you feel unwell

Do NOT induce vomiting.

If exposed or concerned, get immediate medical advice/attention.

**If inhaled** – Call a Poison Centre or doctor/physician if you feel unwell.

Do NOT induce vomiting.

If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing.

If experiencing respiratory symptoms, call a Poison Centre or doctor/physician.

**If on Skin** – Wash with plenty of soap and water.

Take off immediately all contaminated clothing.

Rinse skin with water/shower.

If skin irritation or rash occurs, get medical advice/attention.

Use a cleansing agent on skin.

Specific treatment for cleansing agent on this label.

Wash contaminated clothing before reuse.

**If swallowed**

Do NOT induce vomiting.

Rinse mouth.

**If in eyes** – Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**In Case of Fire:**

Foam, dry agent or carbon dioxide.

**Storage:**

Store locked up.

**Disposal:**

Recycle wherever possible.

Bury residue in an authorised landfill.

Recycle containers if possible. If not possible, dispose of in an authorised landfill.

Containers may still present a chemical hazard/danger when empty.

If container can not be cleaned sufficiently well to ensure that residuals do not remain or if the container cannot be used to store the same product, then puncture containers, to prevent re-use, and bury at an authorised landfill.

Contact appropriate Waste Management Company for guidance and disposal options in your area.

Where possible retain label warnings and MSDS and observe all notices pertaining to the product.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

<b>Ingredients:</b>	<b>Cas No:</b>	<b>%</b>
Benyl alcohol	100-51-6	< 40
Isophorone diamine	2855-13-2	< 30
Methylenebiscyclohexamine,4,4-formaldehyde		
Polymer with phenol and teta	32610-77-8	< 15
Phenol	108-95-2	< 4
Triethylenetetramine	112-24-3	< 4

## 4. FIRST AID MEASURES

### EMERGENCY & FIRST AID PROCEDURES

**Eye Contact:** Flush with copious quantities of water for 15 minutes. Seek medical attention.

**Skin Contact:** Remove with soap and water. If irritation persists seek medical advice.

**Inhalation:** remove the affect person to fresh air. If breathing is laboured, seek medical attention.

**Ingestion:** Do not induce vomiting. Give 250 ml water or milk to drink. Seek medical attention immediately.

**Note to physician:** Treat symptomatically.

## 5. FIRE FIGHTING MEASURES

**Extinguishing Media:** Foam, dry agent or carbon dioxide.

**Special Fire Fighting Procedures:** Evacuate area of unprotected personnel. Use water spray to cool fire exposed containers and fire affected zone until fire is out and danger of re-ignition has passed. Wear positive pressure, self-contained breathing apparatus and full protective equipment.

**Unusual Fire and Explosion Hazards:** Nitrous fumes may be formed.

## 6. ACCIDENTAL RELEASE MEASURES

### SPILLS AND DISPOSAL

**Steps to be taken in case material is released or spilled:** Absorb with sawdust, sand etc, and collect in suitable containers. Wash surface with steam and hot soapy water.

**Waste Disposal Method:** Dispose of in accordance with local regulations.

## 7. HANDLING AND STORAGE

### SPECIAL PRECAUTIONS AND STORAGE DATA

**Special Sensitivity (Heat, Light, Moisture):** Keep away from heat, sparks, open flame and strong oxidising agents.

### STORAGE AND TRANSPORT

**Storage Temperature (Min/Max):** Store in a cool dry place.

**Average Shelf Life:** 12 months

## 8. EXPOSURE CONTROL/PERSONAL PROTECTION

### EXPOSURE STANDARDS

**Threshold Limit Value – Time Weighted Average (TLV-TWA):** Not determined

**Threshold Limit Value – Short Term Exposure Limit (TLV-STEL):** Not determined

**Threshold Limit Value – Ceiling (TLV-C):** Not determined

## **ENGINEERING CONTROLS**

**Ventilation:** Use in well ventilated areas or with local exhaust.

## **PERSONAL PROTECTION**

**Skin and eye protection:** Wear protective gloves, safety goggles or face shield.

**Respiratory Protection:** If heated, use self contained breathing apparatus.

## **FLAMMABILITY**

**Flammability Limits:** Not determined

## **9. PHYSICAL/CHEMICAL PROPERTIES**

<b>Appearance &amp; Odour:</b>	Opaque paste, ammoniacal odour
<b>Boiling Point:</b>	Not determined
<b>Vapour Pressure:</b>	Not available
<b>Specific Gravity:</b>	1.1
<b>Flash Point:</b>	112°C
<b>% Volatile by Volume:</b>	Negligible
<b>Flammability Limits:</b>	Not determined
<b>Solubility in Water:</b>	

## **10. STABILITY AND REACTIVITY**

### **REACTIVITY DATA**

**Stability:** Stable under normal conditions.

**Polymerisation:** Hazardous polymerisation will not occur.

**Incompatibility (Materials to avoid):** Store away from strong oxidants.

**Hazardous decomposition products:** Carbon monoxide, nitrogen dioxides and unidentified organic compounds. Consider all smoke and fumes from burning material as very hazardous. Welding, cutting or abrasive grinding can create smoke and fumes. Do not breathe any fumes or smoke from these operations.

## **11. TOXICOLOGICAL INFORMATION**

### **HEALTH EFFECTS**

#### **ACUTE:**

**Skin and Eyes:** Severe irritation in contact with skin. Prolonged or repeated contact may lead to dermatitic effects. Liquid may cause burns to eyes. High concentration of vapours will irritate eyes.

**Ingestion:** Product is slightly toxic by ingestion. May damage mucous membrane.

**Inhaled:** The vapour is an irritant to the mucous membranes and respiratory tract.

## CHRONIC

**Human Effects of Over Exposure:** Prolonged or repeated contact may lead to dermatitic effects.

## 12. ECOLOGICAL INFORMATION

No data available.

## 13. DISPOSAL CONSIDERATIONS

### DISPOSAL STATEMENT

Recycle wherever possible.

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If container can not be cleaned sufficiently well to ensure that residuals do not remain or if the container cannot be used to store the same product, then puncture containers, to prevent re-use, and bury at an authorised landfill.

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## 14. TRANSPORTATION INFORMATION

U.N. No:	1760	Haz Chem Code:	2X
Dangerous Goods Class:	8		
Proper Shipping Name:	Corrosive liquid, NOS		
Packaging Group:	III		
Toxic Substances Schedule:	Not applicable		

## 15. REGULATORY INFORMATION

**HSNO Approval number:** HSR002658

**HSNO Classification:** 6.1E, 6.5A, 6.5B, 6.8B, 6.9B, 8.2C, 8.3A, 9.1D

## 16. OTHER INFORMATION

This document was reviewed and revised on 12 December 2023.

**Contact:** POLYMER GROUP LTD – PHONE 09 274 1400

**IMPORTANT NOTE:** Data quoted is typical for the product but does not constitute a specification and is based on the most accurate information available to PGL at the time of writing. All information contained herein is given in good faith but is subject to change without notice.