



# ALCOLIN EPOXY BOND GENERAL PURPOSE

## SAFETY DATA SHEET

### PART A

#### 1. IDENTIFICATION

##### 1.1. Product identifier

Product name Alcolin Epoxy Bond General Purpose (Base)  
Chemical family Epoxy Resin

##### 1.2. Intended use of the product

2-part, clear, fast setting polymer compound that mixes easily enabling fast permanent repairs to many surfaces

##### 1.3. Name, address, and telephone of the responsible party

Company: Permoséal (Pty) Ltd  
Address: 1 Beverley Close, Montague Gardens, 7441, Cape Town, South Africa  
Phone: +27-21-555-7400  
Toll-free No. 0800-222-400  
Website: [www.alcolin.com](http://www.alcolin.com)

##### 1.4. Emergency phone number

+27-21-555-7400

#### 2. HAZARDS IDENTIFICATION

##### 2.1. Classification of the substance or mixture

GHS Classification This product is classified as a hazardous mixture

##### 2.2. Label elements

GHS Labelling

- This product is classified and labelled according to the CLP regulation.
- Hazard pictograms**



GHS07



GHS09

##### 2.3. Signal word:

Warning

##### 2.4. Hazard determining components of labelling:

Reaction product: Bisphenol-A epichlorhydrin epoxy resin

##### 2.5. Hazard statements

H315 Causes skin irritation.  
H317 May cause an allergic skin reaction  
H319 Causes serious eye irritation.  
H411 Toxic to aquatic life with long lasting effects.

## 2.6. Precautionary statements

|                |  |
|----------------|--|
| P260           | Do not breathe dust/fume/gas/mist/vapours/sprays.  |
| P273           | Avoid release to the environment.  |
| P280           | Wear protective gloves / eye protection.   |
| P302+P352      | If on skin: Wash with plenty of soap and water.  |
| P305+P351+P338 | If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P333+P313      | If skin irritation or rash occurs: Seek medical attention.   |
| P403+P235      | Store in a well-ventilated place. Keep cool.   |
| P501           | Dispose of contents/containers in accordance with national regulations.  |

## 2.7. Additional information

Contains epoxy constituents. May produce an allergic reaction.

## 2.8. Other Hazards

No additional information available.

## 2.9. Unknown acute toxicity

No data available

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Mixture. This product is hazardous

### 3.2 Hazardous Components

| Ingredients  | CAS Number | Contents (%) | Classification of Substance   |
|--|------------|--------------|---|
| Bisphenol-A-(epichlorhydrin) epoxy resin<br>(number average molecular weight $\leq$ 700) | 25068-38-6 | 30 - 60      | Eye irrit.: Cat 2<br>Skin Sens.: Cat 1<br>Skin Irrit.: Cat 2<br>Aquatic Chron.: Cat 2 |

## 4. FIRST- AID MEASURES

### 4.1. Description of first aid measures

|              |   |
|--------------|---|
| General      | Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice.   |
| Inhalation   | Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.<br>In case of unconsciousness, place patient in a side position for transportation. |
| Skin contact | Wash skin with soap and water and rinse thoroughly. Seek medical attention if irritation persists.  |
| Eye contact  | Rinse cautiously with water for 15 minutes. Remove any contact lenses if present and easy to do. Continue rinsing.<br>Obtain medical attention.   |
| Ingestion    | Rinse mouth. Do not induce vomiting. Get the affected person to drink a lot of water in small gulps. Obtain medical attention.  |

### 4.2. Most important symptoms and effects both acute and delayed

|              |  |
|--------------|--|
| General      | May cause irritation in the uncured state.                         |
| Inhalation   | May cause damage to organs through prolonged or repeated exposure. |
| Skin contact | May cause an allergic skin reaction in the uncured state.          |
| Eye contact  | May cause serious eye irritation.                                  |
| Ingestion    | May be harmful or have adverse effects.                            |

### 4.3. Indication of any immediate medical attention and special treatment needed

|                    |                       |
|--------------------|-----------------------|
| Note to physicians | Treat symptomatically |
|--------------------|-----------------------|

## 5. FIRE-FIGHTING MEASURES

### 5.1. Extinguishing media

|                              |  |
|------------------------------|--|
| Suitable extinguishing media | Water, dry chemical powder, foam, carbon dioxide or sand |
| Unsuitable ext. media        | Not applicable   |

### 5.2. Special hazards arising from the substance or mixture

|                  |                          |
|------------------|--------------------------|
| Fire hazard      | Not flammable            |
| Explosion hazard | Product is not explosive |

### 5.3. Advice for firefighters

|                                |  |
|--------------------------------|--|
| Firefighting instructions      | Exercise caution when fighting any chemical fire.  |
| Protection during firefighting | Firefighters should wear full protective gear. Do not enter fire area without proper protective equipment, including respiratory protection. |
| Hazardous combustion products  | Under certain conditions of combustion, traces of toxic substances cannot be excluded.   |

## 6. ACCIDENTAL RELEASE MEASURES

### 6.1. Personal precautions, protective equipment and emergency procedures

|                  |  |
|------------------|--|
| General measures | Contaminated surfaces will become very slippery. |
|------------------|--|

### 6.2. For non-emergency personnel

|                      |   |
|----------------------|---|
| Protective equipment | Use appropriate personal protection equipment (PPE) |
| Emergency procedures | Evacuate unnecessary personnel.                     |

### 6.3. For emergency personnel

|                      |   |
|----------------------|---|
| Protective equipment | Use appropriate personal protection equipment (PPE) |
| Emergency procedures | Secure the area and evacuate unnecessary personnel. |

### 6.4. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

### 6.5. Methods and materials for containment and cleaning up

|                         |   |
|-------------------------|---|
| For containment         | Absorb and or contain spill with inert material.  |
| Methods for cleaning up | If recovery is not feasible, absorb with inert material. Place in a container suitable for disposal. Dispose of in accordance with current local legislation. |

### 6.6. Reference to other sections

Refer to Section 8, Exposure controls and personal protection

## 7. HANDLING AND STORAGE

### 7.1. Precautions for safe handling

|                      |   |
|----------------------|---|
| Handling temperature | Normal ambient temperature  |
| Hygiene measures     | Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating or drinking. |

### 7.2. Conditions for safe storage, including any incompatibilities

|                        |  |
|------------------------|--|
| Storage conditions     | Store in a dry, cool and well-ventilated place. Keep container closed when not in use. |
| Incompatible materials | Organic solvents, strong acids, strong alkalis and salts. Reacts with amines.          |
| Maximum storage period | 24 months, but may vary depending on storage conditions.                               |

## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

### 8.1. Control parameters

There are no established exposure limits for this product.

### 8.2. Exposure controls

|                               |   |
|-------------------------------|---|
| Engineering controls          | Provide good ventilation when handling large quantities. No special measures are required if stored and handled as above. |
| Personal protective equipment | Use appropriate personal protection equipment (PPE)   |
| Hand protection               | Wear chemical resistant, impermeable gloves   |
| Eye protection                | Safety glasses  |
| Skin and body protection      | Use a protective suit   |
| Respiratory protection        | Not required under normal conditions of use in a well-ventilated space  |
| Other information             | When using, do not eat or drink   |

## 9. PHYSICAL AND CHEMICAL PROPERTIES

|                              |                   |
|------------------------------|-------------------|
| Appearance                   | Grey paste        |
| Odour                        | Characteristic    |
| Density (g/cm <sup>3</sup> ) | Approximately 1.5 |
| Flash point (°C)             | > 100             |
| Solubility water             | Insoluble         |

## 10. STABILITY AND REACTIVITY

|                                    |  |
|------------------------------------|--|
| Reactivity                         | None expected under normal conditions.   |
| Chemical stability                 | Stable under normal conditions.  |
| Possibility of hazardous reactions | None expected under normal conditions.   |
| Conditions to avoid                | Direct sunlight. Extremely high or low temperatures. Exposure to moisture.         |
| Incompatible materials             | Strong oxidizing agents, organic peroxides, acids                                  |
| Hazardous decomposition products   | Thermal decomposition may release carbon monoxide, carbon dioxide, nitrogen oxides |

## 11. TOXICOLOGICAL INFORMATION

This product has not undergone any toxicological testing. Acute and chronic health effects are not expected as long as good hygiene and safety precautions are followed.

### 11.1. Information on toxicological effects

- Acute Toxicity:**

| Ingredient                                   | Result                  | Species | Dose         |
|--|-------------------------|---------|--------------|
| Bisphenol-A-(epichlorhydrin);<br>epoxy resin | LD <sub>50</sub> Dermal | Rabbit  | 23000 mg/kg  |
|  | LD <sub>50</sub> Oral   | Rat     | >15000 mg/kg |

## 12. ECOLOGICAL INFORMATION

This product has not been tested for environmental effects. It is however toxic to fish and other aquatic organisms and poses a danger to drinking water if even small quantities leak into the ground.

- Toxicity:**

| Ingredient                                   | Result                   | Species        | Exposure |
|--|--------------------------|----------------|----------|
| Bisphenol-A-(epichlorhydrin);<br>epoxy resin | EC <sub>50</sub> 11mg/l  | Aquatic plants | 72 hours |
|  | EC <sub>50</sub> 1.8mg/l | Daphnia        | 48 hours |
|  | LC <sub>50</sub> 2mg/l   | Fish           | 96 hours |
|  | Chronic NOEC 0.3mg/l     | Daphnia        | -        |

## 13. DISPOSABLE CONSIDERATIONS

|                                 |  |
|---------------------------------|--|
| Sewage disposal recommendations | Do not dispose waste into sewer.   |
| Waste disposal recommendations  | Whatever cannot be saved for recovery or recycling should be disposed of in accordance with current local legislation. |

## 14. TRANSPORT INFORMATION

### 14.1. UN Number

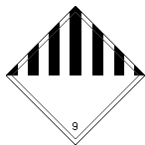
ADR, ADN, IMDG, IATA UN 3082

### 14.2. UN Proper Shipping Name

|         |   |
|---------|---|
| ADR/ADN | Environmentally hazardous substance, liquid, N.O.S. (reaction product: bisphenol-A-(epichlorhydrin) epoxy resin, bisphenol F epoxy resin)                   |
| IMDG    | Environmentally hazardous substance, liquid, N.O.S. (reaction product: bisphenol-A-(epichlorhydrin) epoxy resin, bisphenol F epoxy resin), Marine Pollutant |
| IATA    | Environmentally hazardous substance, liquid, N.O.S. (reaction product: bisphenol-A-(epichlorhydrin) epoxy resin, bisphenol F epoxy resin)                   |

### 14.3. Transport hazard class

ADR, ADN, IMDG, IATA LABEL



**CLASS** 9 Miscellaneous dangerous substances and articles

### 14.4. Packing group

ADR, ADN, IMDG, IATA III

### 14.5. Environmental hazards

Marine pollutant (IMDG), Special marking (ADR/AND), Special marking (IATA)



**14.6. Special precautions for user** Warning: Miscellaneous dangerous substances and articles

## 15. REGULATORY INFORMATION

**15.1. Labelling** Classified as a hazardous product

**15.2. National Legislation** None

## 16. OTHER INFORMATION

### 16.1. Information sources

This SDS is prepared based on the information received from the suppliers

### 16.2. Full text of H-phrases referred to under Section 3

H315 Causes skin irritation.

H317 May cause an allergic skin reaction

H319 Causes serious eye irritation.

H411 Toxic to aquatic life with long lasting effects.

### 16.3. Additional information

This document has been prepared in accordance with the SDS requirements of SANS 11014:2010

For intended use and applications see the Technical Data Sheet for the product. The information provided in this Safety Data Sheet is based on the present state of our knowledge. This data is intended to enable safety assessments to be made and should not be construed as guaranteeing specific properties. Recipients of our product must take responsibility for observing existing laws and regulations.

Revision date 01/ April 2020



# ALCOLIN EPOXY BOND GENERAL PURPOSE

## SAFETY DATA SHEET

### PART B

#### 1. IDENTIFICATION

##### 1.1 Product identifier

Product name Alcolin Epoxy Bond General Purpose (Activator)

Chemical family Polyamide

##### 1.2. Intended use of the product

The activator (also known as the hardener or curing agent) of a 2-part epoxy system

##### 1.3. Name, address, and telephone of the responsible party

Company: Permoseal (Pty) Ltd

Address: 1 Beverley Close, Montague Gardens, 7441, Cape Town, South Africa

Phone: +27-21-555-7400

Toll-free No. 0800-222-400

Website: [www.alcolin.com](http://www.alcolin.com)

##### 1.4. Emergency phone number

+27-21-555-7400

#### 2. HAZARDS IDENTIFICATION

##### 2.1. Classification of the substance or mixture

GHS Classification This product is classified as a hazardous mixture

##### 2.2. Label elements

GHS Labelling

- This product is classified and labelled according to the CLP regulation.
- Hazard pictograms**



GHS07



GHS05

2.3. Signal word: Warning

##### 2.4. Hazard determining components of labelling:

Polyamine/polyamide mixture

##### 2.5. Hazard statements

H315 Causes skin irritation

H317 May cause an allergic skin reaction

H319 Causes serious eye irritation

## 2.6. Precautionary statements

|                |  |
|----------------|--|
| P261           | Avoid breathing dust/fume/gas/mist/vapours/spray.  |
| P280           | Wear protective gloves / eye protection.   |
| P280e          | Wear protective gloves   |
| P264           | Wash hands thoroughly after handling   |
| P272           | Contaminated clothing should not be allowed out of the work place  |
| P302+P352      | If on skin: Wash with plenty of soap and water.  |
| P305+P351+P338 | If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P333+P313      | If skin irritation or rash occurs: Seek medical attention.   |
| P501           | Dispose of contents/containers in accordance with national regulations.  |

## 2.7. Other Hazards

Contains epoxy constituents. May produce an allergic reaction.

## 2.8. Other Hazards

No additional information available.

## 2.9. Unknown acute toxicity

No data available

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Mixture. This product is hazardous.

### 3.2 Hazardous Components

| Ingredients                           | CAS Number | Contents (%) | Classification of Substance   |
|---------------------------------------|------------|--------------|---|
| Triethylenetetramine                  | 112-24-3   | < 2          | Acute tox.: Cat 4<br>Skin corr.: Cat 1B<br>Skin sens.: Cat 1<br>Aquatic chron.: Cat 3 |
| 2,4,6-Tris(dimethylaminomethyl)phenol | 90-72-2    | < 2          | Skin Corr.: Cat 1C<br>Skin irrit.: Cat 1C<br>Skin sens.: Cat 1                        |
| Filler                                | 14808-60-7 | 10 – 15      | Acute tox.: Cat 4   |

## 4. FIRST-AID MEASURES

### 4.1. Description of first aid measures

|              |   |
|--------------|---|
| General      | Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice.   |
| Inhalation   | Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.<br>In case of unconsciousness, place patient in a side position for transportation. |
| Skin contact | Wash skin with soap and water and rinse thoroughly. Seek medical attention if irritation persists.  |
| Eye contact  | Rinse cautiously with water for 15 minutes. Remove any contact lenses if present and easy to do. Continue rinsing.<br>Obtain medical attention.   |
| Ingestion    | Rinse mouth. Do not induce vomiting. Get the affected person to drink a lot of water in small gulps. Obtain medical attention.  |

### 4.2. Most important symptoms and effects both acute and delayed

|              |  |
|--------------|--|
| General      | May cause irritation in the uncured state.                         |
| Inhalation   | May cause damage to organs through prolonged or repeated exposure. |
| Skin contact | May cause an allergic skin reaction in the uncured state.          |
| Eye contact  | May cause serious eye irritation.                                  |
| Ingestion    | May be harmful or have adverse effects.                            |

### 4.3. Indication of any immediate medical attention and special treatment needed

|                    |                       |
|--------------------|-----------------------|
| Note to physicians | Treat symptomatically |
|--------------------|-----------------------|

## 5. FIRE-FIGHTING MEASURES

### 5.1. Extinguishing media

|                              |  |
|------------------------------|--|
| Suitable extinguishing media | Water, dry chemical powder, foam, carbon dioxide or sand |
| Unsuitable ext. media        | Not applicable   |

## 5.2. Special hazards arising from the substance or mixture

|                  |                          |
|------------------|--------------------------|
| Fire hazard      | Not flammable            |
| Explosion hazard | Product is not explosive |

## 5.3. Advice for firefighters

|                                |  |
|--------------------------------|--|
| Firefighting instructions      | Exercise caution when fighting any chemical fire.  |
| Protection during firefighting | Firefighters should wear full protective gear. Do not enter fire area without proper protective equipment, including respiratory protection. |
| Hazardous combustion products  | Under certain conditions of combustion, traces of toxic substances cannot be excluded.   |

## 6. ACCIDENTAL RELEASE MEASURES

### 6.1. Personal precautions, protective equipment and emergency procedures

|                  |  |
|------------------|--|
| General measures | Contaminated surfaces will become very slippery. |
|------------------|--|

### 6.2. For non-emergency personnel

|                      |   |
|----------------------|---|
| Protective equipment | Use appropriate personal protection equipment (PPE) |
| Emergency procedures | Evacuate unnecessary personnel.                     |

### 6.3. For emergency personnel

|                      |   |
|----------------------|---|
| Protective equipment | Use appropriate personal protection equipment (PPE) |
| Emergency procedures | Secure the area and evacuate unnecessary personnel. |

### 6.4. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

### 6.5. Methods and materials for containment and cleaning up

|                         |   |
|-------------------------|---|
| For containment         | Absorb and or contain spill with inert material.  |
| Methods for cleaning up | If recovery is not feasible, absorb with inert material. Place in a container suitable for disposal. Dispose of in accordance with current local legislation. |

### 6.6. Reference to other sections

Refer to Section 8, Exposure controls and personal protection

## 7. HANDLING AND STORAGE

### 7.1. Precautions for safe handling

|                      |   |
|----------------------|---|
| Handling temperature | Normal ambient temperature  |
| Hygiene measures     | Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating or drinking. |

### 7.2. Conditions for safe storage, including any incompatibilities

|                        |  |
|------------------------|--|
| Storage conditions     | Store in a dry, cool and well-ventilated place. Keep container closed when not in use. |
| Incompatible materials | Organic solvents, strong acids, strong alkalis and salts. Reacts with amines.          |
| Maximum storage period | 24 months, but may vary depending on storage conditions.                               |

## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

### 8.1. Control parameters

There are no established exposure limits for this product.

### 8.2. Exposure controls

|                               |  |
|-------------------------------|--|
| Engineering controls          | Provide good ventilation when handling large quantities. No special measures are required if stored and handled as above |
| Personal protective equipment | Use appropriate personal protection equipment (PPE)  |
| Hand protection               | Wear chemical resistant, impermeable gloves  |
| Eye protection                | Safety glasses   |
| Skin and body protection      | Use a protective suit  |
| Respiratory protection        | Not required under normal conditions of use in a well-ventilated space   |
| Other information             | When using, do not eat or drink  |



## 9. PHYSICAL AND CHEMICAL PROPERTIES

|                              |                     |
|------------------------------|---------------------|
| Appearance                   | Grey viscous liquid |
| Odour                        | Fish - like         |
| Density (g/cm <sup>3</sup> ) | Approximately 1.4   |
| Flash point (°C)             | > 100               |
| Solubility water             | Insoluble           |

## 10. STABILITY AND REACTIVITY

|                                    |  |
|------------------------------------|--|
| Reactivity                         | None expected under normal conditions  |
| Chemical stability                 | Stable under normal conditions   |
| Possibility of hazardous reactions | None expected under normal conditions  |
| Conditions to avoid                | Direct sunlight. Extremely high or low temperatures. Exposure to moisture          |
| Incompatible materials             | Strong oxidizing agents, organic peroxides, acids                                  |
| Hazardous decomposition products   | Thermal decomposition may release carbon monoxide, carbon dioxide, nitrogen oxides |

## 11. TOXICOLOGICAL INFORMATION

This product has not undergone any toxicological testing. Acute and chronic health effects are not expected as long as good hygiene and safety precautions are followed.

## 12. ECOLOGICAL INFORMATION

This product has not been tested for environmental effects. It is however toxic to fish and other aquatic organisms and poses a danger to drinking water if even small quantities leak into the ground. No quantitative data is available but product does have a regulation of Class 2 (German Regulation) – hazardous for water.

## 13. DISPOSABLE CONSIDERATIONS

|                                 |  |
|---------------------------------|--|
| Sewage disposal recommendations | Do not dispose waste into sewer.   |
| Waste disposal recommendations  | Whatever cannot be saved for recovery or recycling should be disposed of in accordance with current local legislation. |

## 14. TRANSPORT INFORMATION

|                       |           |               |
|-----------------------|-----------|---------------|
| Road / rail transport | ADR / RID | Not regulated |
| Marine Transport      | IMDG      | Not regulated |
| Inland waterways      | ADNR      | Not regulated |
| Air transport         | IATA      | Not regulated |

## 15. REGULATORY INFORMATION

|                            |                                   |
|----------------------------|-----------------------------------|
| 15.1. Labelling            | Classified as a hazardous product |
| 15.2. National Legislation | None                              |

## 16. OTHER INFORMATION

### 16.1. Information sources

This SDS is prepared based on the information received from the suppliers

### 16.2. Full text of H-phrases referred to under Section 3

|      |                                     |
|------|-------------------------------------|
| H315 | Causes skin irritation              |
| H317 | May cause an allergic skin reaction |
| H319 | Causes serious eye irritation       |

