



ALCOLIN FAST SET STEEL EPOXY

SAFETY DATA SHEET

1. IDENTIFICATION

1.1. Product identifier

Product name Alcolin Fast Set Steel Epoxy (Resin)
Chemical family Epoxy Resin

1.2. Intended use of the product

2-part, grey, fast setting polymer compound for bonding and sealing

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

Company: Permo seal (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

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:

Bisphenol-A epichlorhydrin epoxy resin; Bisphenol F epoxy resin

2.5. Hazard statements:

H315 Causes skin irritation.
H317 May cause an allergic skin reaction
H319 Causes serious eye irritation.
H411 Harmful 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 (number average molecular weight ≤ 700)	25068-38-6	30 - 60	Eye irrit.: Cat 2 Skin Sens.: Cat 1 Skin Irrit.: Cat 2 Aquatic Chron.: Cat 2
Bisphenol F epoxy resin	9003-36-5	0 - 10	Eye irrit.: Cat 2 Skin Sens.: Cat 1 Skin Irrit.: Cat 2 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 Take victim into fresh air. In case of unconsciousness, place patient in a recovery position for transportation. Seek medical advice.
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. Obtain medical attention.
Ingestion Rinse mouth thoroughly with water. Do not induce vomiting. 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 spray, dry chemical powder, alcohol-resistant foam, carbon dioxide
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 None.

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 Strong oxidizing agents, organic peroxides, acids.
Maximum storage period 12 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 gloves
Eye protection	Safety glasses
Skin and body protection	Not required under normal conditions of use.
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 liquid
Odour	Mild odour
Density (g/cm ³)	Approximately 1.67
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); epoxy resin	LD ₅₀ Dermal	Rabbit	23000 mg/kg
	LD ₅₀ 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); epoxy resin	EC ₅₀ 11mg/l	Aquatic plants	72 hours
	EC ₅₀ 1.8mg/l	Daphnia	48 hours
	LC ₅₀ 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



- **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 Harmful 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 July 2019



ALCOLIN FAST SET STEEL EPOXY

SAFETY DATA SHEET

1. IDENTIFICATION

1.1. Product identifier

Product name Alcolin Fast Set Steel Epoxy (Hardener)
Chemical family Amine

1.2. Intended use of the product

2-part, clear, fast setting polymer compound for bonding

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

Company: Permo seal (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

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:

2,4,6-tris(dimethylaminomethyl)phenol

2.5. Hazard statements:

H302 Harmful if swallowed
H315 Causes skin irritation.
H318 Causes serious eye damage.

2.6. Precautionary statements:

P260 Do not breathe dust/fume/gas/mist/vapours/sprays.
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
2,4,6-tris(dimethylaminomethyl)phenol	90-72-2	1 - 10	Eye irrit.: Cat 2 Skin irrit.: Cat 2 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 Take victim into fresh air. In case of unconsciousness, place patient in a recovery position for transportation. Seek medical advice.

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. Obtain medical attention.

Ingestion Rinse mouth thoroughly with water. Do not induce vomiting. 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 spray, dry chemical powder, alcohol-resistant foam, carbon dioxide

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 None.

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 Strong oxidizing agents, organic peroxides, acids.

Maximum storage period 12 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 gloves

Eye protection Safety glasses

Skin and body protection Not required under normal conditions of use.

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 White liquid

Odour Mild odour

Density (g/cm³) Approximately 1.67

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

H302	Harmful if swallowed
H315	Causes skin irritation.
H318	Causes serious eye damage.

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 July 2019