MIX ‘N FIX FASTSTEEL
SAFETY DATA SHEET

1. IDENTIFICATION

1.1. Product identifier
Product name Mix ‘N Fix Faststeel
Chemical family Epoxy Putty

1.2. Intended use of the product
An epoxy putty stick that can repair and rebuild anything made of metal

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

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

GHS08

2.3. Signal word
Danger

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
H351 Suspected of causing cancer
H411 Harmful to aquatic life with long lasting effects
2.6. Precautionary statements:

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.
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

Mixture. This product is hazardous.

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>CAS Number</th>
<th>Contents (%)</th>
<th>Classification of Substance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)</td>
<td>25068-38-6</td>
<td>5 – 10</td>
<td>Eye irritation: Cat 2&lt;br&gt;Skin Sens.: Cat 2&lt;br&gt;Skin Irrit.: Cat 1&lt;br&gt;Aquatic Chronic: Cat 2</td>
</tr>
<tr>
<td>Talc</td>
<td>14807-96-6</td>
<td>30 – 60</td>
<td>-</td>
</tr>
</tbody>
</table>

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 the person into the 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. 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  No known significant effects or critical hazards.

Skin contact  May cause an allergic skin reaction in the uncured state.

Eye contact  May cause eye irritation.

Ingestion  May cause irritation to mouth, throat and stomach

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: 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: None known
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 gloves
Eye protection: Not required under normal conditions of use
Skin and body protection: Not required
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 outer/black inner solid
Odour: Pungent
Density (g/cm³): Approx. 2.25
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
Incompatible materials: None known
Hazardous decomposition products: Thermal decomposition may release carbon monoxide, carbon dioxide, nitrogen oxides, sulphur oxides, halogenated compounds and metal oxides.

11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

- Acute Toxicity:

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Result</th>
<th>Species</th>
<th>Dose</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bisphenol-A-(epichlorhydrin); epoxy resin LD₅₀ Dermal</td>
<td>Rabbit</td>
<td>23000 mg/kg</td>
<td></td>
</tr>
<tr>
<td>Bisphenol-A-(epichlorhydrin); epoxy resin LD₅₀ Oral</td>
<td>Rat</td>
<td>&gt;15000 mg/kg</td>
<td></td>
</tr>
</tbody>
</table>

- Additional toxicological information:
This product contains talc in a polymer matrix. Sanding the cured product may release particles containing talc with the polymer and other components of the matrix into the air. The talc contains less than 1% crystalline silica which is known to be a human carcinogen.

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:

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Result</th>
<th>Species</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bisphenol-A-(epichlorhydrin); epoxy resin EC₅₀ 11mg/l</td>
<td>Aquatic plants</td>
<td>72 hours</td>
<td></td>
</tr>
<tr>
<td>Bisphenol-A-(epichlorhydrin); epoxy resin EC₅₀ 1.8mg/l</td>
<td>Daphnia</td>
<td>48 hours</td>
<td></td>
</tr>
<tr>
<td>Bisphenol-A-(epichlorhydrin); epoxy resin LC₉₀ 2mg/l</td>
<td>Fish</td>
<td>96 hours</td>
<td></td>
</tr>
<tr>
<td>Chronic NOEC 0.3mg/l</td>
<td>Daphnia</td>
<td>-</td>
<td></td>
</tr>
</tbody>
</table>

- Other adverse effects
No known significant effects or critical hazards

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
H351  Suspected of causing cancer
H411  Harmful to aquatic life with long lastiing 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 Date 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  September 2018