

STEEL EPOXY

EPOXY ADHESIVE



ISO 9001

1. Product & Company Identification

Product Details

Product name: Steel Epoxy
Physical form: Liquid
Odour: Characteristic Odour
CAS No.: Mixture
Flammability: Combustible.

Company Details

Manufacturer: Mohm Chemical Sdn Bhd
Address: No. 32, Jalan Temenggong, Off Jalan Tampoi,
 81100 Johor Bahru, Johor, Malaysia.
Tel: + 60-7-3331222
Fax: + 60-7-3320545 / + 60-7-3337919

2. Hazards Identification

Hazard Pictogram



Signal Word : Warning

Classification

Hazard Class	Hazard Category
Skin corrosion or irritation	Category 2
Serious eye damage or eye irritation	Category 2
Skin sensitization	Category 1
Hazardous to the aquatic environment – chronic hazard	Category 2

Hazard Statement

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.



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Precautionary statement – prevention

- P261 Avoid breathing vapours.**
P264 Wash hands thoroughly after handling.
P272 Contaminated work clothing should not be allowed out of the workplace.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary statement - response

- P301+P330+P331+P312 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER if you feel unwell.**
P303+P361+P364+P353+P352 - IF ON SKIN (or hair): Take off immediately all contaminated clothing and wash before reuse. Rinse skin with water/shower. Wash with plenty of soap and water.
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338+P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER.
P308+P313 - IF exposed or concerned: Get medical attention.
P391- Collect spillage.

Precautionary statement storage

- P403+P233 - Store in a well-ventilated place. Keep container tightly closed.**
P405 - Store locked up.

Precautionary statement disposal

- P501 - Dispose of contents and containers in accordance with local, regional and international regulations.**

3. Composition / Hazardous Components

<u>Chemical Name</u>	<u>CAS No.</u>	<u>WT%</u>
Epoxy Resin	25068-38-6	60 – 100 % (For Part A)
Polyamines	904610-0	60 – 100 % (For Part B)
Titanium Dioxide	13483-67-7	1 – 10 % (For Part B)

4. First-aid Measures

- Take off all contaminated clothing immediately.**
- | | |
|---------------------------------|---|
| In case of ingestion: | Seek medical advice immediately. |
| In case of skin contact: | Wipe with paper towel and immediately clean with water and soap. |
| In case of eyes contact: | immediately flush with water, seek medical advice if necessary. |
| In case of inhalation: | Removed to fresh air, keep warm and rest. |



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5. Fire Fighting Measures

Suitable extinguishing media:	Use dry chemical powder, foam, carbon dioxide, water fog, sand and earth.
Unsuitable extinguishing media:	Water from a jet.
Hazardous decomposition:	Carbon dioxide, carbon monoxide.

6. Accidental release measures

Exclude sources of ignition and ventilate the area.	
Avoid breathing vapours.	
Methods for cleaning up:	Take up mechanically.

7. Handling and Storage

Handling:	Avoid contact with eyes and skin. Ensure good ventilation during processing. Wear safety goggles and gloves.
Protection against fire/ explosion:	General rules of fire prevention should be observed.
Storage:	Keep container tightly closed and dry. Store in cold and well-ventilated area.

8. Exposure control / Personal protection

Ingredients with limited values to be controlled:	Not indicated.
Local exhaust:	Recommended
General ventilation:	Recommended
Hand protection:	Suitable protective gloves.
Eye protection:	Safety/ protective glasses.

9. Physical and Chemical Properties

Steel Epoxy Resin

Form:	Viscous Liquid
Colour:	Black
Specific gravity:	1.65 ± 0.10
Viscosity @Spindle No.5, 20rpm, 30°C:	40,000 – 80,000 cps
Odour:	Characteristic Odour
Epoxy Molar Mass:	182 – 194g
Boiling point:	> 200°C
Freezing Point:	Crystals sometimes separate at room temperature
Flash point:	> 150°C
Ignition temperature:	> 300°C
Solubility in water:	Immiscible
Incompatibilities:	React with acids and bases



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Steel Epoxy Hardener

Form:	Viscous Liquid
Colour:	White
Specific gravity:	1.50 ± 0.10
Viscosity @Spindle No.5, 20rpm, 30°C:	70,000 – 110,000 cps
Odour:	Characteristic smell.
Amine Value:	300 – 360.
Flash point:	> 265°C.

Note: the above information is not intended for use in preparing specification.

10. Stability and Reactivity

Chemical stability:	Stable
Incompatibility (material to be avoid):	Acids and bases.
Conditions to be avoid:	High temperature
Dangerous reactions:	None known.
Dangerous products of decomposition:	Carbon dioxide, carbon monoxide.

Due to exothermic reaction, heat is generated, when mixed. Adequate care should be taken while mixing in large quantities.

11. Toxicological Information**Threshold Limit Value**

Oral	N/D
Dermal	N/D
Inhalation	N/D

Specific effects	Prolonged or repeated over exposure may cause allergic sensitization
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Carcinogenicity

NTP	NO
ACGIH	NO
OSHA REGULATED	NO

12. Ecological Information

Acute bacterial or fish toxicity – not defined
Do not empty in drains
The cured mass of epoxy is generally non hazardous



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13. Disposal Considerations

Do not allow large quantities to enter the drains or water courses or dispose of where ground or surface waters may be affected. Residues in emptied containers should be covered and should be disposing of respect to local regulations.

14. Transport Information

Proper shipping name: Epoxy
Hazard technical name: Not available.
Hazard class: Not available.
No dangerous goods under the transport regulation.

15. Regulatory Information

Labeling (EC): This product is classified and labeled for supply in accordance with the classification of hazardous chemical.

Classification: Harmful
Irritant to skin

Risk Phrases: R43 May causes sensitization by skin contact.
R36/38 Irritant to skin

Safety Phrases: S2 Keep out of reach of children.
S28 After contact with skin, wash immediately with plenty of water.
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S27 Take off immediately all contaminated clothing.
S37 Wear suitable gloves.
S46 If swallowed, seek medical advice immediately and show this container or label.

16. Other Information

These data are offered in good faith as typical values and not as a product specification. No warranty, either expressed or implied, is hereby made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However, each user should review these recommendations in the specific content of the intended use and determine whether they are appropriate.

*** End Of SDS ***

