

# MC-226

## EPOXY HIGH PERFORMANCE STRUCTURAL ADHESIVE

### 1. Product & Company Identification

#### Product Details

Product name: MC-226 Epoxy High Performance Structural Adhesive Part A (Resin)  
 Physical form: Paste form  
 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

Eye irritation	Category 2
Corrosion / irritation	Category 2
Hazardous to the aquatic environment - chronic hazard	Category 2
Skin sensitization	Category 1

#### Hazard statement

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

#### Precautionary statement - General

P102 - Keep out of the reach of children.

#### Precautionary statement - Prevention

P280 - Wear protective gloves and eye / face protection.

#### Precautionary statement - Response

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water.



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P362 - Take off contaminated clothing and wash before reuse.

P333 - If skin irritation or rash occurs: Get medical attention.

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 - If eye irritation persists: Get medical advice / attention.

### Precautionary statement - Disposal

P501 - Dispose of contents/container in accordance with local/regional/national/international regulation.

### 3. Composition / Hazardous Components

<u>Chemical Name</u>	<u>CAS No.</u>	<u>WT%</u>
Epoxy Resin	25068-38-6	45%
Calcium carbonate	1317-65-3	55 %

### 4. First-aid Measures

<b>General remarks:</b>	Do not leave affected person unattended. Plot casualty from the danger area. Keep victim warm, calm and eclipsed. Remove contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical attention. In case of unconsciousness place person in the recovery position. Never give anything by mouth.
<b>Inhalation:</b>	If the breathing is irregular or stopped, seek medical advice immediately and initiate first aid measures. In case of respiratory tract irritation, consult a physician. Provide fresh air.
<b>Eye contact:</b>	Remove contact lenses, if present and it can be removed easily. Continue rinsing. Hold eyelids stretched and rinse with plenty of clean, running water for 10 minutes.
<b>Ingestion:</b>	If swallowed, rinse your mouth with water (only if the person is conscious). Do not induce vomiting.
<b>Skin contact:</b>	Wash with plenty of soap and water.

### 5. Fire Fighting Measures

<b>Extinguishing media:</b>	Water spray, alcohol-resistant foam, BC-powder, carbon dioxide (CO <sub>2</sub> )
<b>Special protective actions for fire-fighters:</b>	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
<b>Unusual fire or explosion hazards:</b>	None
<b>Hazardous combustion products:</b>	Nitrogen oxides (NO <sub>x</sub> ), carbon monoxide (CO), carbon dioxide (CO <sub>2</sub> )



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### 6. Accidental release measures

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

For non-emergency:	Take people to safety place.
For workers, emergency responders:	If exposed to vapors/dust/ aerosols/gases, wear breathing apparatus.
Environmental precautions:	Prevent spillage into drains, surface water and groundwater.
Clean-up methods:	Covering of drains. Wipe off with absorbent material (eg. Textiles, non-woven fabric). Transfer leaked substances into suitable containers for disposal. Ventilate affected area.

### 7. Handling and Storage

Handling:	After use, wash your hands. Do not eat, drink or smoke in the workplace. Before entering eating areas remove contaminated clothing and protective equipment. No food or drink stored near the chemicals. Never store chemicals in containers that are usually used to store food or drinks. Avoid breathing vapor and mist.
Storage:	Keep in cool, well-ventilated area away from heat, sparks and open flame. Use only compatible container and keep container tightly closed/sealed until ready for use.

### 8. Exposure control / Personal protection

Occupational exposure limits:	No specific date.
Engineering controls:	No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
Environmental exposure control:	Emissions from ventilation or work process equipment should be checked to ensure they comply with requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
Respiratory protection:	Use a properly fitted, particular filter respiratory complying with an approved standard if a risk assessment indicates this is necessary.
Skin protection:	Chemical resistance, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
Eye/face protection:	Safety eyewear complying with an approved standard should be used when a risk assessment indicated this is necessary to avoid exposure to liquid splashes, mists, gases, or dusts.



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## EPOXY HIGH PERFORMANCE STRUCTURAL ADHESIVE

### 9. Physical and Chemical Properties

Physical state:	Paste	Viscosity:	Unresolved
Color:	White	Flash point:	Unresolved
Odor:	Characteristic odor	Specific gravity:	1.80±0.05 at 25°C
pH:	Unresolved	Flammability:	Not relevant
Melting/Freezing point:	Unresolved	Explosive properties:	No
Boiling point/range:	Unresolved	Oxidizing properties:	No

### 10. Stability and Reactivity

Reactivity:	No specific test data related to reactivity available for this product or its ingredients.
Chemical stability:	The product is stable.
Hazardous reaction:	Under normal conditions of storage and uses, hazardous reactions will not occur.
Hazardous combustion:	See section 5.
Incompatibility:	No specific data.
Conditions to avoid:	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Strong acids, strong oxidizing agents and strong bases.

### 11. Toxicological Information

Information on toxicological effects:	Test data are not available for the complete mixture. Method for classification of a mixture based on the components of the mixture (additivity formula).
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#### GHS Classification (1272.2008 / EC, CLP)

Acute toxicity: Not classified as acutely toxic.

Route of exposure	Property (Monitored)	Value	Test animal
Oral	LD50	>2.000 mg/kg	Rat
Dermal	LD50	>2.000 mg/kg	Rat

CAS: 25068-38-6

Skin corrosion / irritation:	Irritates the skin.
Serious eye damage / eye irritation:	It causes serious eye irritation.
Respiratory / skin sensitization:	May cause allergic skin reaction.
Summary of the CMR properties:	It not classified as mutagens for germ cells, carcinogenic or reproductive toxicant.
Toxicity for specific target organ toxicity (STOT):	It not classified as toxic to specific target organs.
Aspiration hazard:	It not classified as aspiration hazard.



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## 12. Ecological Information

Toxicity: Toxic to aquatic organisms.

Aquatic toxicity (acute)

Property (Monitored)	Value	Test animal	Exposure time
LC50	0.209 mg/l	Fish	96 hours

CAS: 25068-38-6

Aquatic toxicity (chronic): Toxic to aquatic life with long lasting effects.

Persistence and degradability: BOD5 / COD. Insignificant.

bioaccumulation potential: Data not available.

Mobility in soil: Data not available.

The results of The results of the assessment vPvB and vPvB: Data not available.

Other adverse effects: Data not available.

## 13. Disposal Considerations

Information provided is for unused product only

Recommended method of disposal: It is a hazardous waste, only containers that are approved (eg. By ADR) can be used. Completely emptied containers can be recycled. Treat contaminated packaging in the same way as the substance itself. Dispose of in accordance with Federal, State and local regulations.

## 14. Transport Information

U.S Department of Transportation Ground (49 CFR):

Proper Shipping Name: Environmentally Hazardous Substance, Liquid, N.O.S

Hazard class or division: 9

Identification number: UN 3082

Packaging group: III

Exceptions: None

Marine pollutant: Hazardous to the aquatic environment.

International Air Transportation (ICAO/IATA):

Proper Shipping Name: Environmentally Hazardous Substance, Liquid, N.O.S

Hazard class or division: 9

Identification number: UN 3082

Packaging group: III

Exceptions: None

Water Transportation (IMO/IMDG):

Proper Shipping Name: Environmentally Hazardous Substance, Liquid, N.O.S

Hazard class or division: 9

Identification number: UN 3082

Packaging group: III

Marine pollutant: Hazardous to the aquatic environment.



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## EPOXY HIGH PERFORMANCE STRUCTURAL ADHESIVE

### 15. Regulatory Information

<b>Chemical Safety Assessment:</b>	<b>Chemical safety assessments for substances in this mixture were not carried out</b>
<b>Regulations concerning safety, health and environmental regulations / legislation specific for the substance or mixture:</b>	<b>Information not available</b>

### 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 \*\*\*



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Skin sensitization	Category 1

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P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 - If eye irritation persists: Get medical advice / attention.

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P501 - Dispose of contents/container in accordance with local/regional/national/international regulation.

### 3. Composition / Hazardous Components

<u>Chemical Name</u>	<u>CAS No.</u>	<u>WT%</u>
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Calcium carbonate	1317-65-3	55 %

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General remarks:	Do not leave affected person unattended. Plot casualty from the danger area. Keep victim warm, calm and eclipsed. Remove contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical attention. In case of unconsciousness place person in the recovery position. Never give anything by mouth.
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Ingestion:	If swallowed, rinse your mouth with water (only if the person is conscious). Do not induce vomiting.
Skin contact:	Wash with plenty of soap and water.

### 5. Fire Fighting Measures

Extinguishing media:	Water spray, alcohol-resistant foam, BC-powder, carbon dioxide (CO <sub>2</sub> )
Special protective actions for fire-fighters:	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Unusual fire or explosion hazards:	None
Hazardous combustion products:	Nitrogen oxides (NO <sub>x</sub> ), carbon monoxide (CO), carbon dioxide (CO <sub>2</sub> )





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### 8. Exposure control / Personal protection

Occupational exposure limits:	No specific date.
Engineering controls:	No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
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### 9. Physical and Chemical Properties

Physical state:	Paste	Viscosity:	Unresolved
Color:	Yellow	Flash point:	Unresolved
Odor:	Characteristic odor	Specific gravity:	1.75±0.05 at 25°C
pH:	Unresolved	Flammability:	Not relevant
Melting/Freezing point:	Unresolved	Explosive properties:	No
Boiling point/range:	Unresolved	Oxidizing properties:	No

### 10. Stability and Reactivity

Reactivity:	No specific test data related to reactivity available for this product or its ingredients
Chemical Stability:	The product is stable.
Hazardous Reaction:	Under normal conditions of storage and uses, hazardous reactions will not occur.
Hazardous combustion products:	See section 5.
Incompatibility:	No specific data.
Conditions to avoid:	No specific data.

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Toxicity for specific target organ toxicity (STOT):	It not classified as toxic to specific target organs.
Aspiration hazard:	It not classified as aspiration hazard.

### 12. Ecological Information

Toxicity:	No specific data.
Persistence and degradability:	No specific data.
bioaccumulation potential:	No specific data.
Mobility in soil:	No specific data.
The results of The results of the assessment vPvB and vPvB:	No specific data.
Other adverse effects:	No known significant effects or critical hazards.



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## 14. Transport Information

U.S Department of Transportation Ground (49 CFR):

**Proper Shipping Name:** Environmentally Hazardous Substance, Liquid, N.O.S. (contains fatty acid amidoamine resin)

**Hazard class or division:** 9

**Identification number:** UN 3082

**Packaging group:** III

**Exceptions:** None

**Marine pollutant:** None.

International Air Transportation (ICAO/IATA):

**Proper Shipping Name:** Environmentally Hazardous Substance, Liquid, N.O.S. (contains fatty acid amidoamine resin)

**Hazard class or division:** 9

**Identification number:** UN 3082

**Packaging group:** III

**Exceptions:** None

Water Transportation (IMO/IMDG):

**Proper Shipping Name:** Environmentally Hazardous Substance, Liquid, N.O.S. (contains fatty acid amidoamine resin)

**Hazard class or division:** 9

**Identification number:** UN 3082

**Packaging group:** III

**Marine pollutant:** None.

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