

## MATERIAL SAFETY DATA SHEET

DOLPHIN EPOXY STEEL		
Revision Date: 10 <sup>th</sup> Mar 2023	Revision No. 00	Number of Pages: 7

### 1. PRODUCT AND COMPANY IDENTIFICATION

#### Product Details

Product Name : DOLPHIN EPOXY STEEL  
 Product Code : AMI EPOXY STEEL  
 Recommended Use : ADHESIVE

#### Company Details

Company Name : Al Muqarram Insulation Materials Industry L.L.C.  
 Address : Industrial Area # 15, Post Box No. 24756  
 Sharjah, United Arab Emirates

Phone Number : +971 (6) 5353796  
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 E-mail ID : info@muqarram.com, sales@muqarram.com  
 Website : [www.muqarram.com](http://www.muqarram.com)

**Emergency Telephone Number: 00971-549981925**

### 2. HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

#### 2.2 Label elements

##### Hazard pictograms



GHS07

Signal word Warning

##### Hazard-determining components of labelling:

Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight <= 700)

##### Hazard statements

H315 Causes skin irritation.  
 H319 Causes serious eye irritation.  
 H317 May cause an allergic skin reaction.  
 H412 Harmful to aquatic life with long lasting effects.

##### Precautionary statements

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P101 If medical advice is needed, have product container or label at hand.P102 Keep out of reach of children.

P280 Wear protective gloves / eye protection.  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Continue rinsing.P302+P352: IF ON SKIN: wash with plenty of water.

P501 Dispose of contents/container in accordance with national regulations.

**Additional information :**

Contains epoxy constituent. May produce an allergic reaction.

**2.3 Other hazards**

None if used if used properly

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Mixtures**

**General chemical description:**

Adhesive

CAS No.	%W	CHEMICAL NAME
25068-38-6	10 - 25	Bisphenol A (Epichlorhydrin)
90-72-2	2 - 5	2,4,6 – Tris (dimethylaminomethyl) Phenol
112945-52-5	5 – 15	Silicone dioxide, amorphous

### 4. FIRST AID MEASURES

**4.1 Description of first aid measures**

. After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

In case of unconsciousness place patient stable in side position for transportation.

. After skin contact: Immediately wash with water and soap and rinse thoroughly.

. After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

. After swallowing: Do not induce vomiting; call for medical help immediately.

**4.2 Most important symptoms and effects, both acute and delayed.**

No further relevant information available.

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

No further relevant information available.

### 5. FIRE FIGHTING MEASURES

**5.1 Extinguishing media**

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

No further relevant information available.

**5.3 Advice for firefighters**

**Protective equipment: No special measures required.**

**Specific Hazards Arising from the Mixture** : During fire, carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>) and nitrogen oxides (NO<sub>x</sub>) can be released.

**Fire Fighting Procedures** : Self-contained breathing apparatus should be worn with full face mask and protective clothing.

### 6. ACCIDENTAL RELEASE MEASURES

**6.1 Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away.

**6.2 Environmental precautions:**

Do not allow to enter sewers/ surface or ground water.

**6.3 Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, and acid binders,

universal Binders, sawdust).Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.

**6.4 Reference to other sections** See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

## 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Ensure well ventilation areas Prevent formation of aerosols.  
Information about fire - and explosion protection: No special measures required.

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

- . Storage:
- . Requirements to be met by storerooms and receptacles: No special requirements.
- . Information about storage in one common storage facility: Not required.
- . Further information about storage conditions: Keep receptacle tightly sealed.

### 7.3 Specific end use(s) No further relevant information available. Precautions for Safe Handling

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

personal protective equipment.

Additional information about design of technical facilities:

No further data; see item 7.

### 8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Additional information: The lists valid during the making were used as basis.

### 8.2 Exposure controls

Personal protective equipment:

General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals. Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work. Do not inhale gases / fumes / aerosols.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

General Information

Appearance:

Form	: Fluid
Colour : Resin/Hardener	: Black / White
Odour	: Characteristic
Odour threshold	: Not determined.
pH-value	: Not determined.

<b>Change in condition</b>	
<b>Melting point/Melting range</b>	: Undetermined.
<b>Boiling point/Boiling range</b>	: Undetermined.
<b>Flash point</b>	: > 100 °C
<b>Flammability (solid, gaseous)</b>	: Not applicable.
<b>Ignition temperature:</b>	
<b>Decomposition temperature</b>	: Not determined.
<b>Self-igniting</b>	: Product is not self-igniting.
<b>Danger of explosion</b>	: Product does not present an explosion hazard.
<b>Explosion limits:</b>	
<b>Lower</b>	: Not determined.
<b>Upper</b>	: Not determined.
<b>Vapour pressure</b>	: Not determined.
<b>Density at 20 °C</b>	: 1.9 g/cm <sup>3</sup>
<b>Relative density</b>	: Not determined.
<b>Vapour density</b>	: Not determined.
<b>Evaporation rate</b>	: Not determined.
<b>Solubility in / Miscibility with water</b>	: Not miscible or difficult to mix.
<b>Partition coefficient (n-octanol/water):</b>	Not determined.
<b>Viscosity:</b>	
<b>Dynamic at 20 °C</b>	: Not determined.
<b>Kinematic</b>	: Not determined.
<b>Solids content</b>	: 100.0 %

**9.2 Other information** No further relevant information available.

## 10. Stability and reactivity

**10.1 Reactivity** No further relevant information available.

### 10.2 Chemical stability

**Thermal decomposition / conditions to be avoided:**

No decomposition if used according to specifications.

**10.3 Possibility of hazardous reactions** No dangerous reactions known.

**10.4 Conditions to avoid** No further relevant information available

**10.5 Incompatible materials:** No further relevant information available.

**10.6 Hazardous decomposition products:**

None Known

## 11. Toxicological information

### 11.1 Information on toxicological effects

**Acute toxicity** Based on available data, the classification criteria are not met.

**Primary irritant effect:**

**Skin corrosion/irritation**

Causes skin irritation.

**Serious eye damage/irritation**

Causes serious eye irritation.

**Respiratory or skin sensitization**

May cause an allergic skin reaction.

**CMR effects (carcinogenetic, mutagenicity and toxicity for reproduction)**

**Germ cell mutagenicity**

Based on available data, the classification criteria are not met.

**Carcinogenicity** Based on available data, the classification criteria are not met.

**Reproductive toxicity**

Based on available data, the classification criteria are not met.

**STOT-single exposure**

Based on available data, the classification criteria are not met.

**STOT-repeated exposure**

Based on available data, the classification criteria are not met.

## 12. Ecological information

### 12.1 Toxicity

**Aquatic toxicity:** No further relevant information available.

**12.2 Persistence and degradability** No further relevant information available.

**12.3 Bio accumulative potential** No further relevant information available.

**12.4 Mobility in soil** No further relevant information available.

**Additional ecological information:**

**General notes:**

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water  
Danger to drinking water if even small quantities leak into the ground.

### 12.5 Results of PBT and vPvB assessment

**PBT:** Not applicable.

**vPvB:** Not applicable.

**12.6 Other adverse effects** No further relevant information available.

**10.1 Reactivity** No further relevant information available.

### 10.2 Chemical stability

**Thermal decomposition / conditions to be avoided:**

No decomposition if used according to specifications.

**10.3 Possibility of hazardous reactions** No dangerous reactions known.

**10.4 Conditions to avoid** No further relevant information available.

**10.5 Incompatible materials:** No further relevant information available.

**10.6 Hazardous decomposition products:**

None Known

## 13. Disposal Considerations

### 13.1 Waste treatment methods

**Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

**Uncleaned packaging:**

**Recommendation:**

Disposal must be made according to official regulations.

Packaging that may not be cleansed are to be disposed of in the same manner as the product.

## 14. Transport information

### 14.1 UN-Number

ADR,ADN, ADN, IMDG, IATA Not Hazardous

### 14.2 UN proper shipping name

ADR,ADN, ADN, IMDG, IATA Not Hazardous

### 14.3 Transport hazard class(es)

ADR,ADN, ADN, IMDG, IATA  
Class Not Hazardous

### 14.4 Packing group

ADR,ADN, IMDG, IATA Not Hazardous

### 14.5 Environmental Hazard:

Marine pollutant : No

14.6 Special precautions for user Not applicable.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code Not applicable.

Transport/Additional information:

IMDG

Remarks: Under certain conditions substances in Class 3 (flammable liquids) can be classified in packing group III.

UN "Model Regulation": Void

## 15. Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

#### Hazard pictograms

GHS07

Signal word Warning

#### Hazard-determining components of labelling:

reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number averagemolecular weight < = 700)

#### Hazard statements

H315 Causes skin irritation.

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H412 Harmful to aquatic life with long lasting effects.

#### Precautionary statements

P101 If medical advice is needed, have product container or label at hand.P102 Keep out of reach of children.

P261 Avoid breathing vapours.

P280 Wear protective gloves / eye protection.

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

P501 Dispose of contents/container in accordance with national regulations. **Named dangerous substances - ANNEX I** None of the ingredients is listed.

**15.2 Chemical safety assessment:**

A Chemical Safety Assessment has not been carried out.

**16. Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

**Relevant phrases**

- H302 Harmful if swallowed.
- Hs315 Causes skin Irritation
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H411 Toxic to aquatic life with long lasting effects.

**Label elements (DPD):**

**Xi-Irritant**



**Abbreviations and acronyms:**

- Acute Tox. 4 : Acute toxicity, Hazard Category 4
- Skin Irritation 2 : Skin corrosion/irritation, Hazard Category 2
- Eye Irritation 2 : Serious eye damage/eye irritation, Hazard Category 2
- Skin Sens. 1 : Sensitization - Skin, Hazard Category 1
- Aquatic Chronic 2 : Hazardous to the aquatic environment - Chronic Hazard, Category 2
- Aquatic Chronic 3 : Hazardous to the aquatic environment - Chronic Hazard, Category 3