



WORLD-CLASS
CHEMICALS

المكرم لصناعة المواد العازلة ذ.م.م
Al Muqarram Insulation Material Industry L.L.C.

MATERIAL SAFETY DATA SHEET

DOLPHIN EPOXY STEEL

Revision Date: 10th March 2023

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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
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2. HAZARDS IDENTIFICATION

Label Elements

Hazard Pictogram



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

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.

Hazards not otherwise classified

: None

Additional Information

Contains epoxy constituent. May produce an allergic reaction.

Other Hazards

None if used properly.

3. COMPOSITION/INFORMATION ON INGREDIENT

General Chemical Description

Part A (Resin)

CAS #	Wt. %	Chemical Name
1317-65-3	<40-50	Calcium Carbonate
25068-38-6	<3-40	Epoxy Resin
14807-96-6	<10-20	Talc Powder
100-51-6	<1	Diluent
65997-17-3	<5	Glass, oxide, chemicals

Part B (Accelerator)

CAS #	Wt. %	Chemical Name
72244-98-5	<10-30	Hardner
7727-43-7	<20-30	Barium Sulphate
68410-23-1	<5	2,4,6-tris(dimethylaminomethyl)phenol
14807-96-6	<10-20	Talc Powder
90-72-2	<2	Amine Mix
112-57-2	<1	Amine
100-51-6	<1	Diluent
112-24-3	<1	Amine
67762-90-7	>1	Siloxanes and Silicones, di-Me, reaction products with silica

4. FIRST AID MEASURES

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 inside 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

Most important symptoms and effects, both acute and delayed

No further relevant information available

Indication of any immediate medical attention and special treatment needed

No further relevant information available

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media

: No information available

Special hazards arising from the substance or mixture	: No further relevant information available
Fire - Advice for Firefighters, protective equipment	: No special measures required
Advice for Fire fighters	
Protective Equipment	: No special measures required
Specific Hazards Arising from the Mixture	: During fire, carbon monoxide (CO), carbon dioxide (CO ₂) and nitrogen oxides (NO _x) can be released.
Fire Fighting Procedures	: Self-contained breathing apparatus should be worn with full face mask and protective clothing.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	: Wear protective equipment. Keep unprotected persons away
Environmental Precautions	: Do not allow to enter sewers/ surface or ground water
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
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

Precautions for Safe Handling	: Ensure well ventilation areas Prevent formation of aerosols.
Information about fire - and explosion protection	: No special measures required
Conditions for safe storage, including any incompatibilities	
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
Specific end use(s)	: No further relevant information available

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal Protective Equipment	
Additional information about design of technical facilities	: No further data; see item 7.
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.
Exposure Controls	: No information available.
Personal protective equipment	: No information available.
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.:

Protection of hands	Do not inhale gases / fumes / aerosols. Avoid contact with the eyes and skin. Respiratory protection is not required.
Material of gloves	: Protective gloves The glove material must be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.
Penetration time of glove material	: The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.
Eye Protection	: The exact break through time must be found out by the manufacturer of the protective gloves and must be observed. For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable: PVC or PE gloves
Body Protection	: Tightly sealed goggles. : Use protective suit.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

General Information

Appearance

Form	: Fluid
Colour	: Black / Grey
Odour	: Characteristic
Odour threshold	: Not determined
pH-value	: Not determined
Change in condition	
Melting point/Melting range	: Undetermined
Boiling point/Boiling range	: Undetermined
Flash point	: > 100 °C
Flammability (solid, gaseous)	: Not applicable
Ignition temperature:	
Decomposition temperature	: Not determined
Self-igniting	: Product is not self-igniting
Danger of explosion	: Product does not present an explosion hazard
Explosion Limits	
Lower	: Not determined
Upper	: Not determined
Vapour Pressure	: Not determined
Density at 20 °C	: 1.9 g/cm ³
Relative density	: Not determined
Vapour density	: Not determined
Evaporation rate	: Not determined
Solubility in/miscibility with water	: Not miscible or difficult to mix
Partition coefficient (n-octanol/water)	: Not determined
Viscosity	
Dynamic at 20 °C	: Not determined
Kinematic	: Not determined
Solids Content	: 100.0%

9.2 Other information

No further relevant information available.

10. STABILITY AND REACTIVITY

Reactivity : No further relevant information available

Chemical Stability	
Thermal decomposition/ conditions to be avoided	: No decomposition if used according to specifications
Possibility of hazardous reactions	: No dangerous reactions known
Conditions to avoid	: No further relevant information available
Incompatible Materials	: No further relevant information available
Hazardous decomposition products	: None known

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects	
Acute Toxicity	: Based on available data, the classification criteria are not met
Primary irritation Effects	
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)	
Carcinogenicity	
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

Toxicity	
Aquatic Toxicity	: No further relevant information available
Persistence and degradability	: No further relevant information available
Bioaccumulative Potential	: No further relevant information available
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
Results of PBT and vPvB assessment	
PBT	: Not applicable
vPvB	: Not applicable
Other Adverse Effects	: No further relevant information available
Reactivity	: No further relevant information available
Chemical Stability	
Thermal decomposition / conditions to be avoided	: No decomposition if used according to specifications
Possibility of hazardous reactions	: No dangerous reactions known.
Conditions to avoid	: No further relevant information available
Incompatible materials	: No further relevant information available
Hazardous decomposition products	: None known
Waste treatment methods recommendation	: No information available

13. DISPOSAL CONSIDERATIONS

Water Treatment Method 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's that may not be cleansed are to be disposed of in the same manner as the product

14. TRANSPORT INFORMATION

UN Number ADR,ADN, ADN, IMDG, IATA	: Not Hazardous
UN proper shipping name ADR,ADN, ADN, IMDG, IATA	: Not Hazardous
Transport Hazard Class ADR,ADN, ADN, IMDG, IATA Class	: Not Hazardous
Packaging group ADR,ADN, IMDG, IATA	: Not Hazardous
Environmental Hazard Marine Pollutant	: NO
Special precautions for User	: Not applicable
Transport in bulk according to Annex II of Marpol and the IBC Code	: Not applicable
Remarks	: Under certain conditions substances in Class 3 (flammable liquids) can be classified in packing group III
UN "Model Regulation"	: Void

15. REGULATORY INFORMATION

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-(epichlorohydrin) 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	
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 : 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 : None of the ingredients is listed

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

H315 : Cause 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 Sense. 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