

MATERIAL SAFETY DATA SHEET

DOLPHIN POWERBOND EPOXY ULTRA STRONG ADHESIVE - CLEAR

Revision Date: 19th Feb 2024

Revision No. 00

Number of Pages: 7

1. PRODUCT AND COMPANY IDENTIFICATION

Product Details

Product Name : Dolphin Powerbond Epoxy Ultra Strong Adhesive - Clear
Product Code : AMI Epoxy Syringe
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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Website : www.muqarram.com

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2. HAZARDS IDENTIFICATION

GHS Classification : Skin irritation, category 2 Eye irritation, category 2A Skin sensitization, category 1

Label Elements

Pictogram



Signal Word : Hazard

Hazard Statements

H315 : H315 Causes skin irritation
H319 : H319 Causes serious eye irritation
H317 : H317 May cause an allergic skin reaction

Precautionary Statements

P264 : Wash skin and eyes thoroughly after handling
P280 : Wear protective gloves/protective clothing/eye protection/face protection
P261 : Avoid breathing dust/fume/gas/mist/vapours/spray
P272 : Contaminated work clothing should not be allowed out of the workplace
P321 : Specific treatment (see supplemental first aid instructions on this label)
P362 : Take off contaminated clothing and wash before reuse
P302 + P352 : If on skin, Wash with plenty of soap and water
P332+P313 : If skin irritation occurs, get medical advice/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
P501 : Dispose of contents/container in accordance with local regulations

Hazards not otherwise classified : None

3. COMPOSITION/INFORMATION ON INGREDIENT

General Chemical Description

Part A

CAS #	Wt. %	Chemical Name
3101-60-8	<5	P-tert-butylphenyl 1-(2,3-epoxy) propyl ether
25068-38-6	<98	Epoxy Resin

Additional Information

For the wording of the listed hazard phrases refer to section 16.

Part B

CAS #	Wt. %	Chemical Name
112-24-3	<5	Amine # 1
100-51-6	<2	Liquid additive # 1
72244-98-5	<90	Curing agent
140-31-8	<5	Amine # 2
25620-58-0	<5	Amine # 3
39423-51-3	<5	Amine # 4
3033-62-3	<1	Amine # 5
919-30-2	<2	Liquid additive # 2

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 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

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

Suitable Extinguishing Media

: Use fire extinguishing methods suitable to surrounding conditions

Special hazards arising from the substance or mixture

: No further relevant information available

Fire - Advice for Firefighters, protective equipment : No special measures required

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

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

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. Avoid contact with the eyes and skin

Respiratory protection : Not required

Protection of hands : **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

Material of gloves
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

Penetration time of glove material

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

Eye protection:

Tightly sealed goggles

Body protection:

Use protective suit

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

General Information

Appearance

Form	: Fluid
Colour	: Clear
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	: 1.6 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

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)	: This material has been classified as non- hazardous
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

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