

Material Safety Data Sheet

MSDS

MATERIAL SAFETY DATA SHEET

NON HAZARDOUS – CHEMICAL IDENTIFICATION CODE NOT APPLICABLE

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY UNDERTAKING:

Product Name : EPOCHIM EPS (Part A)
Application : Epoxy Polysulphide Elastomeric
Company : Coating for Potable Water Tanks
Address : Al Mutatawer Factory for Building Materials
Telephone : New Industrial Area Street #2, Zone 81 P.O. Box 13310, Doha, Qatar
Telephone : +974 4460 0862

2. COMPOSITION / INFORMATION ON INGREDIENTS:

Ingredients	% Composition	CAS No.
Epoxy Resin	30-50	90598-46-2
Titanium Dioxide	5-10	13463-67-7
Filler	30-40	14808-60-7

HS Code : 3208.90

3. HAZARDS IDENTIFICATIONS:

Hazardous identification : C (Corrosive)
R Phrase (s) : R20/21/22 Harmful by inhalation, in contact with skin and if swallowed
R34 Causes burns
R43 May cause sensitization by skin contact

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4. FIRST AID MEASURES:

Eyes	:	Remove contact lenses. Hold eyelids apart. Immediately flush eyes with plenty of water for at least 15 minutes. Get immediate medical attention.
Skin	:	Wash thoroughly with soap and water. Remove contaminated clothing. Thoroughly wash clothing before reuse. Render unusable and discard contaminated shoes and leather articles.
Inhalation	:	Remove to fresh air. Give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention.
Ingestion	:	If conscious, drink large quantities of water. Induce vomiting. Call a physician or poison control center immediately. NEVER give anything by mouth to an unconscious person. NEVER induce vomiting in an unconscious person.

5. FIRE FIGHTING MEASURES:

Fire fighting procedures	:	Evacuate area immediately. Do not fight fire.
Extinguishing media	:	Deluge with large quantities of water as quickly as possible by automatic sprinkles or fire hose from a protected location. Product is self-oxidizing.
Conditions to Avoid	:	Avoid impact, friction, heat, sparks, or flame.
Hazardous combustion products	:	If heated to combustion, the following substances may be formed: carbon monoxide, carbon dioxide, nitrogen, water, hydrogen, nitrogen oxides, methane, aldehydes, carboxylic acid, and hydrogen cyanide.

6. ACCIDENTAL RELEASE MEASURES:

Clean up spills immediately using soft natural bristle brush and conductive rubber or conductive plastic

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shovel. Use caution, material is sensitive to initiation from sources such as heat, flame, shock, friction, or sparks. In case of accidental spill or release, refer to Section 8, Personal Protective Equipment and General Hygiene Practices.

7. HANDLING AND STORAGE:

General measures : Do not pressurize or expose containers to heat, flame, sparks, static electricity, or other sources of ignition. Store in a cool, dryplace, approximately 68°F (20°C). Store only in Department of Transportation approved containers. Check old product for deterioration regularly.

Materials or conditions to avoid : Avoid storing product near incompatible materials. See section 10. Do not store near flammable materials. Do not keep deteriorated or salvaged product. Keep away from heat, flame, sparks, and other ignition sources. Do not store in direct sunlight or expose to UV radiation.

8. EXPOSURE CONTROLS / PERSONAL PROTECTIONS:

General Hygienic Practices : Avoid contact with eyes, skin and clothing. Avoid breathing dust, vapor, or mist. Wash thoroughly after handling, and before eating, drinking , or smoking. Avoid contamination of food, beverages, or smoking materials. Remove contaminated clothing promptly and clean thoroughly before reuse. Discard contaminated leather articles.

Recommended Exposure Limits:

Hazardous Component Wt. % Limit Basis

	TWA		STEL	
	ppm	mg/m ³	ppm	mg/m ³
1) ACGIH	N/E	N/E	N/E	N/E
2) ACGIH	N/E	N/E	N/E	N/E

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Personal Protective Equipment:

Safety glasses

Impervious gloves

Appropriate respiratory protection is required when exposure to airborne contaminants may exceed acceptable limits.

Respirators should be selected and used in accordance with OSHA, Subpart I (29 CFR 1910, 134) and manufacturers recommendations.

Flame retardant clothing.

Wear conductive safety shoes.

Work Practices and Engineering Controls:

Do NOT smoke in areas where powder is stored or used.

Material is shock sensitive. Use care in handling.

Keep away from ignition sources. Friction can cause ignition.

Eye wash fountains and safety showers should be easily accessible.

Prevent build-up of static electric charges.

Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

Protective Measures During Repair and Maintenance:

Eliminate ignition sources and prevent build-up of static electric charges.

Use spark-proof tools and explosion-proof equipment.

Wetting work area with water will greatly reduce hazards.

Completely remove product from area, and thoroughly clean all equipment, piping, or vessels before beginning maintenance or repairs.

A work permit system is recommended for any preparation and clean-up.

9. PHYSICAL AND CHEMICAL PROPERTIES:

Form	:	Liquid
Colour	:	Light yellow
Odour	:	characteristic
Change in physical state	:	N/A

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Boiling point, °C(mm Hg)	:	> 150°C
Melting point, °C	:	
Flash Point(°C)	:	> 70°C
Autoignition Temperature : -lower -upper		N/A
Thermal decomposition	:	N/A
Specific gravity (°C)	:	1.45
Vapour pressure, mbar(°C)	:	N/A
Viscosity(°C)	:	120 ps (25)
pH value(°C)	:	
Solubility in water(°C)	:	N/A
Further information	:	

10. STABILITY AND REACTIVITY:

General stability considerations:	Stable under recommended handling and storage conditions.
Incompatible materials	Incompatible with: acids, oxidizing agents, alkalis and amines and strong sunlight or ultraviolet light.
Hazardous decomposition	None anticipated under normal or recommended handling and products storage conditions.
Hazardous polymerization	Not anticipated under normal or recommended handling and storage conditions.

11. TOXICOLOGICAL INFORMATION:

Reported human effects	:	No human toxicity studies have been carried out with this product.
Reported animal effects	:	
Acute Toxicity		oral (rat) LD ₅₀ 1300 mg/kg (calculated) inhalation (rat) LC ₅₀ not determined skin (rabbit) LD ₅₀ not determined
Skin irritation	:	May cause irritation to skin
Eye irritation	:	May cause irritation to eyes

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Chronic toxicity	:	No information
Sensitizing	:	May cause sensitization by skin contact
Carcinogenicity information:		IARC : Group 4 ACHIH : A5
Reproductive effects	:	No studies on reproductive effects have been carried out with this product.
Mutagenicity / genotoxicity : information		No mutagenicity studies have been carried out with this product.

12. ECOLOGICAL INFORMATION:

Ecotoxicity	:	No ecological studies have been carried out with this product.
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13. DISPOSAL CONSIDERATIONS:

Waste Disposal Methods:

Disposal of waste and resin should be carried out under the direct supervision of a qualified person. For industrial disposal, federal hazardous waste regulations allow open burning of wastes in permitted facilities. Burn in the open in an isolated location in small, shallow piles not over one inch deep. Stay upwind. Do not breathe products of combustion. State or local regulations may be more stringent than federal regulations.

For disposal of small quantities, contact state or local environmental agencies for options.

14. TRANSPORT INFORMATION:

Department of Transportation (DOT) Requirements	:	Not regulated as dangerous goods
International Air Transportation Association (IATA Requirements)	:	Not regulated as dangerous goods

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International Maritime Dangerous Goods (IMDG) Code Requirements: Not regulated as dangerous goods

15. REGULATORY INFORMATION:

Labeling according to EEC Directives

Hazardous identification : C (Corrosive)

Harmful by inhalation in contact with skin and if swallowed (R20/21/22). Causes burns (R34).

May cause sensitization by skin contact (R43).

In case of contact with eyes , rinse immediately with plenty of water and seek medical advise (S26).

Wear suitable protective clothing, gloves and eye/face protection (S36/37/39). In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible) (S45).

Avoid release to the environment. Refer to special instructions / safety data sheets (S61)

16. OTHER INFORMATION:

The data and advice given apply when the product is used for the stated application or applications. The product is not sold as suitable for any other applications. Use of the product for applications other than as stated in the sheet may give rise to risks not mentioned in this sheet. The product should not be used other than for the stated application or applications without seeking advice from Colmef.

If the product has been purchased for supply to a third party for use at work, it is the purchaser's duty to take all necessary steps to ensure that any person handling or using the product is provided with the information in this sheet.

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It is the responsibility and duty of the employer to inform employees and others who may be affected of hazards described in this sheet and of any precautions which should be taken.

This sheet does not constitute or substitute for the users own assessment of workplace risk, as required by other health and safety legislation.

Further copies of this Safety Data Sheet may be obtained from Colmef.

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NON HAZARDOUS – CHEMICAL IDENTIFICATION CODE NOT APPLICABLE

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY UNDERTAKING:

Product Name : EPOCHIM EPS (Part B)
Application : Epoxy Polysulphide Elastomeric Coating for Potable Water Tanks

Company : Al Mutatawer Factory for Building Materials
Address : New Industrial Area Street #2, Zone 81 P.O. Box 13310, Doha, Qatar
Telephone : +974 4460 0862

2. COMPOSITION / INFORMATION ON INGREDIENTS:

Ingredients	% Composition	CAS No.
Cycloalipathic Polyamine Adduct	50-80	Proprietary
Liquid Polysulphide Polymer	20-50	68611-50-7

HS Code : 2921.29

3. HAZARDOUS IDENTIFICATIONS:

Toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment.

Classification : N, C Corrosive
R Phrase (s) : R20/21/22 Harmful by inhalation, in contact with skin and if Swallowed
R34 Causes burns
R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

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S Phrase (s)	:	S26 In case of contact with eyes, rinse immediately with plenty of water S28 After contact with skin, wash immediately with plenty of water. S36/37/39 Wear suitable protective clothing, gloves and eye/face protection S45 In case of accident or if you feel unwell, seek medical advice Immediately (show the label where possible) S51 Use only in well-ventilated areas S61 Avoid release to the environment. Refer to special instructions/ safety data sheet.
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4. FIRST AID MEASURES:

Skin contact	:	Flush with large amounts of clean water, use soap if available. Remove any contaminated clothing.
Eye contact	:	Check for and remove any contact lenses. Flush with large amounts of clean warm water for 15 minutes. Get prompt medical attention.
Inhalation	:	Immediately move victim to fresh air. If breathing has stopped then administer artificial respiration. Get prompt medical attention.
Ingestion	:	Do not induce vomiting; give large quantities of water, get immediate medical attention.



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5. FIRE FIGHTING MEASURES:

Extinguishing Media	:	Extinguishing powder, carbon dioxide alcohol resistant foam water fog water
Extinguishing Media must not be used	:	strong water jet
Specific Hazards	:	In case of fire maybe liberated: carbon monoxide and carbon dioxide nitrogen oxides (NOx) hydrochloric hazardous vapours may form during fires.

6. ACCIDENTAL RELEASE MEASURES:

Method and Materials for Clean Up	:	Runoff or release to sewer, waterway or ground is forbidden. Collect and reclaim or dispose in sealed containers in licensed waste.
Environmental Precautions	:	Avoid subsoil penetration. Do not allow to enter into drains, sewers or waterways.

7. HANDLING STORAGE:

Precautions for Safe Handling	:	Wear personal protective equipment (PPE). Provide good ventilation. Avoid spilling, skin and eye contact.
Conditions for Safe Storage	:	Keep containers tightly closed; store under cool dry conditions. Keep away from food and drink. Keep out of reach of children. Store under cover and away from direct sunlight and moisture.

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION:

Engineering Controls	:	Ventilation is recommended under normal use conditions. State regulations on speed and direction of airflow away from operators must be observed. Keep containers closed when not in use.
Exposure Standards	:	None established for this product.

Personal Protective Equipment (PPE):

Respiratory protection	:	Type A1 if ventilation is inadequate
Glove type (AS2161)	:	Chemical resistant, impervious gloves e.g. PVC, butyl rubber or nitrile rubber gauntlets (consult your local glove supplier / manufacturer).
Eye Protection	:	Chemical worker's goggles or well-fitting safety glasses or full face shield.
Clothing	:	No special clothing required but overalls or other suitable industrial clothing which provides full skin coverage are suggested as a general precaution, especially where heavy contamination is likely.
Other	:	Use barrier creams to protect skin from contact with the material. Do not eat drink or smoke while working with the material. Always wash hands before smoking, eating, drinking or using the toilet and after finishing work. Observe the usual precautions when handling chemicals.

9. PHYSICAL AND CHEMICAL PROPERTIES:

Form	:	Liquid
Colour	:	yellowish
Odour	:	Characteristic Mercaptan
Relative Density (at 20°C)	:	1.5

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Change in physical state	:	N/A
Boiling point, °C	:	>200
Melting point, °C	:	No data available
Flash Point (°C)	:	> 150
Autoignition temperature (°C)	:	N/A
Explosion limits	:	N/A
-lower		
-upper		
Thermal decomposition	:	N/A
Viscosity (at 25°C)	:	20-30 Ps
pH value (°C)	:	N/A
Solubility in water (°C)	:	Insoluble in water

10. STABILITY AND REACTIVITY:

Chemical stability	:	Stable under normal storage and application temperature
Incompatible materials	:	Strong acids, bases and oxidizing agents.
Hazardous decomposition	:	
Products	:	Oxides of carbon and other possibly toxic fumes from fire.
Hazardous reactions	:	Hazardous polymerization will not occur.

11. TOXICOLOGICAL INFORMATION:

Health Hazard Summary	:	Susceptible individuals may develop allergic reactions such as dermatitis or asthma like symptoms on a single significant skin exposure or may become sensitized to the material on repeated contact. Hence it is imperative that all forms of exposure be kept to an absolute minimum.
Inhalation	:	May cause irritation to nose and mucous membrane.
Eyes	:	May cause eye irritation, redness and may be capable of causing corneal scarring.
Ingestion	:	Harmful if swallowed

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12. ECOLOGICAL INFORMATION:

Aquatic toxicity: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

General information:

Persistence and degradability

General information : Product is not readily biodegradable
Oxygen demand : No data available

Bioaccumulative potential

Bioconcentration factor (BCF) : No data available

Mobility in soil : No data available

Results of PBT and vPvB assessment: not applicable

Other adverse effects

General information : Do not allow to penetrate into soil, water bodies or drains

13. DISPOSAL CONSIDERATIONS:

Waste treatment methods

Product

Recommendation : Incinerate as hazardous waste according to applicable local, state, and federal regulations. Do not dispose with household waste.

Contaminated packaging

Recommendation : Dispose of waste according to applicable legislation. Handle contaminated packages in the same way as the substance itself.

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14. TRANSPORT INFORMATION:

Proper Shipping Name	:	Environmentally hazardous substance, solid, NOS
UN Number Road	:	2735
ADR Class	:	Class 8
IMDG Class	:	8
EMS	:	None
ADR Class No.	:	8
ADR Pack Group	:	III
UN Number Sea	:	2735
IMDG Pack Group	:	III
UN Number Air	:	2735
IATA Class	:	8
Air Pack Group	:	III

15. REGULATORY INFORMATION:

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

Storage class : VCI 8A

Water Hazard : Class 8

Further regulations, limitations and legal requirements:

Observe employment restrictions concerning young persons.

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