

Material Safety Data Sheet

NON HAZARDOUS – CHEMICAL IDENTIFICATION CODE NOT APPLICABLE

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

Product Name : EPOSHIELD SF100 (Part A)
HS CODE : **32089000**
Application : High Build Epoxy Floor Coating
Manufacturer : MATEX CONSTRUCTION CHEMICALS
MANUFACTURING CO. L.L.C.
Address : P.O. Box 29585
Telephone : +971 4 3334140
Fax : +971 4 3334115
Email : info@matex.ae
Website : www.matex-global.com

2. HAZARDS IDENTIFICATION:

Hazard Designation : Xi Irritant
Risk Phrase(s) : R36/38, Irritating to eyes and skin
: R43, May cause sensitization by skin contact
Safety Phrase(s) : S37/39, Wear suitable gloves and eye/face
protection
: S51, Use in a well-ventilated area

3. COMPOSITION / INFORMATION ON INGREDIENTS:

Ingredients	% Composition	CAS No.
Epoxy resin	30-40	25068-38-6
Titanium Oxide	5-10	13463-67-7
Fillers	50-65	14808-60-7

4. FIRST AID MEASURES:

Skin contact : Flush with large amounts of clean water, use
soap if available. Remove any contaminated clothing.

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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	:	Not a normal route of injury. Do not induce vomiting; give large quantities of water, get immediate medical attention. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquids into lungs. Do not give anything by mouth to an unconscious person.

5. FIRE FIGHTING MEASURES:

Hazardous combustion Products	:	Oxides of Carbon and other possible toxic fumes from fire.
Firefighting measures	:	Foam, carbon dioxide, dry chemical. Wear protective equipment including self-contained apparatus.

6. ACCIDENTAL RELEASE MEASURES:

Method and Materials for Clean Up	:	Spill should be contained by bundling and absorbing with dry inert filler (e.g. vermiculite, sand, oil etc.), which can be shoveled into appropriately labeled drums. Disposal should be effected by approved waste disposal organization according to local regulations.
Environmental Precautions	:	Avoid subsoil penetration. Do not allow to enter into drains, sewers or waterways.

7. HANDLING AND STORAGE:

Precautions for Safe Handling	:	Wear personal protective equipment (PPE) as per Section 8.
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

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direct sunlight and moisture. Store at 5°C to 35°C. Keep away from incompatible materials.

8. EXPOSURE CONTROLS / PERSONAL PROTECTIONS:

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	:	Various
Odour	:	characteristic
Change in physical state	:	N/A
Boiling point, °C (mm Hg)	:	N/A
Melting point, °C	:	
Flash Point (°C)	:	> 100 °C
Autoignition temperature (°C)	:	N/A
Explosion limits	:	N/A
-lower	:	

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-upper

Thermal decomposition	:	N/A
Specific gravity (°C)	:	1.4 (25)
Vapour pressure, mbar (°C)	:	< 1000mbar (50)
Viscosity (°C)	:	150 – 300 poise (25)
pH value (°C)	:	N/A
Solubility in water (°C)	:	N/A

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	:	Only very slightly toxic.

12. ECOLOGICAL INFORMATION:

Ecology	:	Do not discharge into sewers unless connected to a wastewater treatment plant.
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13. DISPOSAL CONSIDERATIONS:

Disposal Method and Containers	:	Ensure containers are sealed. Dispose of to an approved land fill site. Refer to Waste Management Authority.
Special Precautions (Landfill/Incineration):	:	None Known.

14. TRANSPORT INFORMATION:

CFR_ROAD	:	NOT REGULATED FOR TRANSPORT
IATA_C	:	NOT REGULATED FOR TRANSPORT
IMDG	:	NOT REGULATED FOR TRANSPORT
CFR_RAIL	:	NOT REGULATED FOR TRANSPORT

15. REGULATORY INFORMATION:

Proposed classification	:	Xi, Irritant. N Dangerous for the environment.
Risk phrase(s)	:	R36/38, Irritating to eyes and skin. R43, May cause sensitization by skin contact. R51/53, Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Safety phrase(s)	:	S28, after contact with skin, wash immediately with plenty of water. S37, Wear suitable glover and eyes/face protection. S61, Avoid release to the environment.

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 **MATEX**.

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 of 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 **MATEX**.

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NON HAZARDOUS – CHEMICAL IDENTIFICATION CODE NOT APPLICABLE

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

Product Name : EPOSHIELD SF100 (Part B)
HS CODE : 32089000
Application : High Build Chemical Resistant Protective Epoxy Coating
Manufacturer : MATEX CONSTRUCTION CHEMICALS MANUFACTURING CO, L.L.C.
Address : P.O. Box 29585
Telephone : +971 4 3334140
Fax : +971 4 3334115
Email : info@matex.ae
Website : www.matex-global.com

2. HAZARDS IDENTIFICATION:

Hazardous Identification : C (Corrosive).
Risk Phrases : R20/21/22, Harmful by inhalation, in contact with skin and if swallowed.
: R34, Causes Burns.
: R43, May cause sensitization by skin contact.

3. COMPOSITION / INFORMATION ON INGREDIENTS:

Ingredients	% Composition	CAS No.
Modified Aliphatic Amine	100	84852-15-3

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.

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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:

Firefighting 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	:	If heated to combustion, the following substances may be products 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 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, dry place, approximately 68°F (20°C). Store only in Department of Transportation approved
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Materials or conditions to avoid : containers. Check old product for deterioration regularly.

Avoid storing product near incompatible materials. 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
ACGIH	N/E	N/E	N/E	N/E
ACGIH	N/E	N/E	N/E	N/E

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 manufacturer's 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.

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- 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
Boiling point, °C(mm Hg)	:	> 150°C
Melting point, °C	:	
Flash Point(°C)	:	> 70°C
Auto ignition Temperature	:	N/A
-lower		
-upper		
Thermal decomposition	:	N/A
Specific gravity (°C)	:	0.95 – 1.05 (25)
Vapour pressure, mbar(°C)	:	N/A
Viscosity(°C)	:	0.5 – 1.5 poise (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.

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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.
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	:	No mutagenicity studies have been carried out with this information 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.

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14. TRANSPORT INFORMATION:

UN Haz. Class : 8
UN Number : 1760
Packaging Group : 3

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 advice (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)

15. OTHER INFORMATION:

1) Directive 67/548/EEC EU dangerous materials list.

2) Directive 91/155/EEC EU MSDS prepared directive.

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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.

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.

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Further copies of this safety Data Sheet may be obtained from **MATEX**.

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