



Material Safety Data Sheet

NON HAZARDOUS – CHEMICAL IDENTIFICATION CODE NOT APPLICABLE

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

Product Name : EPOCLEAR (Part A)
HS CODE : **39073000**
Application : Self Levelling, Solvent Free Clear Top Coat
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:

Hazards Information : Corrosive. Cause burns. Harmful by inhalation, in contact with skin and if swallowed.

3. COMPOSITION / INFORMATION ON INGREDIENTS:

Ingredients	% Composition	CAS #
Epoxy resin	>100	25068-38-6

4. FIRST AID MEASURES:

Eye contact : Flush immediately with plenty of water for at least 15 minutes. Get medical attention.
Skin contact : Remove contaminated clothes immediately. Wash affected area with plenty of water. Seek medical attention.
Inhalation : Remove affected person to fresh air. If symptoms persist obtain medical attention.
Ingestion : If swallowed drink water. Obtain medical attention. Induce vomiting only on advice of physician.



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5. FIRE FIGHTING MEASURES:

Extinguishing Media Suitable	:	Foam, carbon dioxide and dry powder and water.
Not to be used	:	Combustion products
Further information		

6. ACCIDENTAL RELEASE MEASURES:

After Spillage/Leakage	:	Absorb with suitable material e.g. sand and earth, seal in plastic bag and bury in landfill. Flush contaminated area with plenty of water. In addition, please refer to the local regulations regarding disposal.
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7. HANDLING AND STORAGE:

Technical Protective Measures	:	Store in shaded areas away from direct sunlight. Keep away from other flammable liquids.
Protection against Fire and Explosion	:	Avoid use in confined space and sources of ignition - no smoking.

8. EXPOSURE CONTROLS / PERSONAL PROTECTIONS:

Exposure Limits	:	MAK (DFG, 1997) Personal protective equipment
Respiratory Protection	:	Nasal respirator if product required in confined spaces.
Eye Protection	:	Safety goggles
Skin Protection	:	Impervious gloves
Other Industrial Hygiene	:	Observe the usual precaution when handling chemicals. Wash hands before breaks and after finishing work. Do not eat, drink or smoke at workplace.

9. PHYSICAL AND CHEMICAL PROPERTIES:

Form	:	Liquid
Colour	:	Colorless
Odour	:	Characteristic

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Change in physical state	:	N/A
Boiling point, °C (mm Hg)	:	N/A
Melting point, °C	:	
Flash Point (°C)	:	Approx. 120
Auto-ignition temperature (°C)	:	N/A
Explosion limits	:	N/A
-lower		
-upper		
Thermal decomposition	:	N/A
Specific gravity (°C)	:	1.4 (25)
Density, g/cm ³ (°C)	:	1.1- 1.2 (20)
Vapour pressure, mbar (°C)	:	< 1000 (50)
Viscosity (°C)	:	<60 poise (25)
pH value (°C)	:	N/A
Solubility in water (°C)	:	N/A

10. STABILITY AND REACTIVITY:

Hazardous decomposition products	:	When exposed to high temperatures may produce carbon monoxide and/or carbon dioxide and oxides of nitrogen.
Hazardous reactions	:	Reaction with strong acids, oxidizing material and strong bases possible.

11. TOXICOLOGICAL INFORMATION:

Information of Toxicity	:	Not toxicological tested
General Acute Oral Toxicity (LD50, rat)	:	
Skin Irritation	:	May cause irritation
Eye Irritation	:	May cause inflammation
Other Information	:	



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12. ECOLOGICAL INFORMATION:

Ecological Effect Information	:	Do not discharge product into drains and sewers.
Impairment of Sludge Activity		
Other information	:	Not readily biodegradable

13. DISPOSAL CONSIDERATIONS:

Disposal	:	Absorb with sand or earth. Collect in plastic disposable bags. Bury in landfill or mix separate product components in ratio as supplied and not exceeding single pack size quantities, in suitable metal containers. Bury in landfill. In addition, please refer to the local regulations regarding disposal.
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14. TRANSPORT INFORMATION:

RID/ADR		
UN No.	:	3082
IMDG Code		
GGVE/GGVS		
ICAO/IATA	:	Class 9 Packing Group III
ADNR		
Other Information	:	Environmentally hazardous substance

15. REGULATORY INFORMATION:

Labelling	:	According to EEC directives for preparation.
Symbol	:	Xi – Irritant
R Phrase(s)	:	R36/38 Irritating to eyes & skin R43 May cause sensitization by skin contact
S Phrase(s)	:	S24/25 Avoid contact with skin and eyes S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.



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- S28 After contact with skin, wash immediately with soap and plenty of water
- S36/37/39 Wear suitable protective clothing, gloves and eye / face protection.
- S51 Use only in well ventilated areas.
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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 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.

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	:	EPOCLEAR (Part B)
HS CODE	:	29212900
Application	:	Self Levelling, Solvent Free Clear Top Coat
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 Symbol(s)	:	Xn	harmful
R-phrases(s)	:	R42/43	May cause sensitization by inhalation and skin contact
	:	R20	Harmful by inhalation
	:	R36/37/38	Irritating to eyes, respiratory system and skin
S-phrases(s)	:	S2	Keep out of reach of children
	:	S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
	:	S35	This material and its container must be disposed of in a safe way.
	:	S36/37	Wear suitable protective clothing and gloves
	:	S45	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
	:	S46	If swallowed, seek medical advice immediately and show this container or label.
	:	S51	Use only in well-ventilated areas
	:	S63	In case of accident by inhalation: remove casualty to fresh air and keep at rest.

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3. COMPOSITION / INFORMATION ON INGREDIENTS:

Ingredients	% Composition	CAS No.
4,4' - diphenylmethanediisocyanate	100	9016-87-9

4. FIRST AID MEASURES:

General Advice	:	First aid personnel should pay attention to their own safety. Remove contaminated clothing.
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	:	Guard against aspiration into lungs. If victim is conscious and alert, give glasses of water. Get prompt medical attention.
Note to Physician: Treatment	:	Treat according to symptoms (decontamination, vital functions), no known specific antidotes.

5. FIRE FIGHTING MEASURES:

Suitable Extinguishing Media	:	Foam, water spray, dry extinguishing media, carbon dioxide.
Unsuitable Extinguishing Media	:	Water jet.
Specific Hazards	:	Carbon dioxide, carbon monoxide, harmful vapours, nitrogen oxides, fumes / smoke, carbon black
Special Protective Equipment	:	Appropriate-breathing apparatus may be required
Additional information	:	Cool endangered containers with water in case of fire. Do not allow the quenching water into the sewage system.

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6. ACCIDENTAL RELEASE MEASURES:

Personal Precautions	:	Use personal protective clothing. Do not breathe vapour/aerosol/spray mists. Sources of ignition should be kept well clear. Handle in accordance with good building materials hygiene and safety practice.
Environmental Precautions	:	Prevent entry into drains, sewers and water courses.
Methods for Cleaning up or Taking Up	:	For small amounts – Pick up the inert absorbent material like sand, earth, etc. Dispose of contaminated material as prescribed. For large amounts – Pump off products.

7. HANDLING AND STORAGE:

Handling	:	Avoid aerosol formation. Avoid inhalation of mists/vapours. Avoid skin contact. No special measures necessary provided product is used correctly.
Storage	:	Keep only in the original container in a cool, dry, well-ventilated place away from ignition sources, heat or flame. Store protected against freezing and against direct sunlight. Protect from temperatures below 5°C.

8. EXPOSURE CONTROLS / PERSONAL PROTECTIONS:

NOHSC 1003 (1995) Exposure Standard Engineering Control Measures Personal Protective Equipment	:	Isocyanate 0.02 mg/m ³ TWA, 0.07 mg/m ³ STEL (as NCO)
	:	Use with adequate general and local exhaust ventilation
	:	Impervious gloves, safety goggles, plastic apron

9. PHYSICAL AND CHEMICAL PROPERTIES:

Form	:	Liquid
Colour	:	Yellowish
Odour	:	Earthy
Change in physical state	:	N/A
Boiling point, °C (mm Hg)	:	N/A
Melting point, °C	:	< 0°C

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Flash Point (°C)	:	> 200°C
Auto-ignition temperature (°C)	:	> 400°C
Thermal decomposition	:	N/A
Specific gravity (°C) Viscosity	:	1.4 (25)
mPa.S (°C)	:	200-500
pH value (°C)	:	N/A
Solubility in water (°C)	:	N/A

10. STABILITY AND REACTIVITY:

Conditions to Avoid	:	Stable under recommended storage and handling conditions
Materials to Avoid	:	Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions. Exothermic reactions with amines and alcohols. In contact with water (moisture) CO ₂ is formed which leads to an excess pressure in closed containers.
Hazardous Decomposition Products	:	When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke, oxides of nitrogen.

11. TOXICOLOGICAL INFORMATION:

Experience on Practice	:	Based on the properties of the isocyanate components and considering toxicological data on similar preparations, this preparation may cause acute irritation and/or sensitization of the respiratory system leading to an asthmatic condition, wheeziness and tightness of the chest. Sensitized persons may subsequently show asthmatic symptoms when exposed to atmospheric concentrations well below the OEL (Occupational Exposure Limit). Repeated exposure may lead to permanent respiratory disability. Delayed reactions possible (breathing problems, coughs, asthma).
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Additional Toxicological General Information : The product was classified in toxicological terms on the basis of the results of the calculation procedure outlined within Directive on Preparations (88/379/EEC).

12. ECOLOGICAL INFORMATION:

Ecotoxicity Assessment of Aquatic Toxicity : There is a high probability that the product is not acutely harmful to aquatic organisms. The product has not been tested. The statement has been derived from the properties of the individual components.

Information on Methylenediphenyl Diisocyanate Assessment of Aquatic Toxicity : There is a high probability that the product is not acutely harmful to aquatic organisms. No toxic effects occur within the range of solubility. The inhibition of degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.

Toxicity to Fish : LC0 (96h) > 1,000 mg/l, Brachydanio rerio (OECD 203; ISO 7346; 84/449/EEC, C.1, static) Nominal concentration.

Aquatic Invertebrates : EC0 (24h) > 1,000 mg/l, Daphnia magna (OECD Guideline 202, part 1, static)

Aquatic Plants : No observed effect concentration (72h) > 1,640 mg/l, scenedesmus subspicatus (OECD Guideline 201)

Microorganisms / Effect On Activated Sludge : EC50 > 100 mg/l, activated sludge (OECD Guideline 209, aquatic)

13. DISPOSAL CONSIDERATIONS:

Observe national and local legal requirements. Residues should be disposed of in the same manner as the substance / product.

Contaminated Packaging : Contaminated packaging should be emptied as far as possible; then it can be passed on for recycling after being thoroughly cleaned.

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14. TRANSPORT INFORMATION:

Domestic Transport Sea	:	Not classified as a dangerous good under transport regulations.
Transport IMDG Air	:	Not classified as dangerous good under transport regulations.
Transport IATA / CAO	:	Not classified as dangerous good under transport regulations.

15. REGULATORY INFORMATION:

EEC Directives:

Hazard Symbol(s)	:	Xn harmful
R-phrases(s)	:	R42/43 May cause sensitization by inhalation and skin contact
	:	R20 Harmful by inhalation
	:	R36/37/38 Irritating to eyes, respiratory system and skin
S-phrases(s)	:	S2 Keep out of reach of children
	:	S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
	:	S35 This material and its container must be disposed of in a safe way.
	:	S36/37 Wear suitable protective clothing and gloves
	:	S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
	:	S46 If swallowed, seek medical advice immediately and show this container or label.
	:	S51 Use only in well-ventilated areas
	:	S63 In case of accident by inhalation: remove casualty to fresh air and keep at rest.
	:	S64 If swallowed, rise mouth with water (only if the person is conscious). Contains isocyanates. Observe manufacturer's instructions.
Hazard Determining Components For Labeling	:	Diphenylmethane – 4, 4' – Diisocyanate (MDI), Methylenediphenyldiisocyanate, Poly-functional isocyanate

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