

## SAFETY DATA SHEET

### E.MIX ES 137 (HYDROPHOBIC POLYURETHANE INJECTION GROUT)

Printing date 01.01.2020

Version number 2

Revision: 01.03.2020

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

PRODUCT NAME E.MIX ES 137 (PU GROUTING)  
 APPLICATION Hydrophobic Polyurethane Injection Grout  
 SUPPLIER Saint-Gobain (Singapore) Pte Ltd  
 2 Venture Drive  
 #09-10 Vision Exchange  
 Singapore 608526

#### 2. HAZARDS IDENTIFICATION

##### RISK PHRASES

R20 Harmful by inhalation.  
 R36/37/38 Irritating to eyes, respiratory system and skin.  
 R40 Limited evidence of a carcinogenic effect.  
 R42/43 May cause sensitization by inhalation and skin contact.  
 R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.  
 R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
 R62 Possible risk of impaired fertility.

##### SAFETY PHRASES

S23 Do not breathe vapour/spray.  
 S25 Avoid contact with eyes.  
 S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice  
 S38 In case of insufficient ventilation, wear suitable respiratory equipment.  
 S45 In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).  
 S57 Use appropriate containment to avoid environmental contamination.  
 S60 This material and its container must be disposed of as hazardous waste.  
 S61 Avoid release to the environment. Refer to special instructions/safety data sheets.  
 P4 Contains isocyanates. See information supplied by the manufacturer.

##### DG CLASS

Class 9: Miscellaneous dangerous substances and articles.

PACKING GROUP III

UN NO. 3082 HAZCHEM CODE •3Z

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content %	Classification (67/548)
DIISOBUTYL PHTHALATE	201-553-2	84-69-5	10-30%	Repr. Cat. 2;R61. Repr. Cat. 2;R62. N;R50/53.
DIPHENYLMETHANE-4,4'-DI-ISOCYANATE	202-966-0	101-68-8	10-30%	Carc. Cat. 3;R40 Xn;R20,R48/20 Xi;R36/37/38 R42/43
DIPHENYLMETHANEDIISOCYANATE - Isomers & homologues		9016-87-9	30-60%	Xn;R20. Xi;R36/37/38. R42.

The Full Text for all R-Phrases is Displayed in Section 16

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#### **4. FIRST-AID MEASURES**

##### **INHALATION**

Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.

##### **INGESTION**

DO NOT induce vomiting. Get medical attention immediately. Immediately rinse mouth and provide fresh air.

##### **SKIN CONTACT**

Wash skin thoroughly with soap and water. Promptly wash contaminated skin with water. Promptly remove clothing if soaked through and wash the skin with water. Get medical attention if irritation persists after washing.

##### **EYE CONTACT**

Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Get medical attention if any discomfort continues.

#### **5. FIRE-FIGHTING MEASURES**

##### **EXTINGUISHING MEDIA**

Extinguish with alcohol-resistant foam, carbon dioxide or dry powder.

##### **SPECIAL FIRE FIGHTING PROCEDURES**

Avoid breathing fire vapours. NOTE! Use air-supplied respirators to protect against gases/fumes.

##### **PROTECTIVE MEASURES IN FIRE**

Wear full protective clothing.

HAZCHEM CODE •3Z

#### **6. ACCIDENTAL RELEASE MEASURES**

##### **PERSONAL PRECAUTIONS**

Wear protective clothing as described in Section 8 of this safety data sheet.

##### **ENVIRONMENTAL PRECAUTIONS**

Spillages or uncontrolled discharges into watercourses must be IMMEDIATELY alerted to the Environmental Agency or other appropriate regulatory body.

##### **SPILL CLEAN UP METHODS**

Absorb spillage with non-combustible, absorbent material. Collect with absorbent, non-combustible material into suitable containers. Use sealed containers for reclamation or dispose of at a licensed hazardous waste collection point. Avoid contact with water.

#### **7. HANDLING AND STORAGE**

##### **USAGE PRECAUTIONS**

Read and follow manufacturer's recommendations.

##### **STORAGE PRECAUTIONS**

Keep away from heat, sparks and open flame. Keep containers tightly closed. Store in tightly closed original container in a dry and cool place.

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#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Name	STD	TWA - 8 Hrs	STEL - 15 Min	Notes
DIPHENYLMETHANE-4,4'-DI-ISOCYANATE		0.02 mg/m <sup>3</sup>	0.07 mg/m <sup>3</sup>	
DIPHENYLMETHANEDIISOCYANATE -Isomers & homologues		0.02 mg/m <sup>3</sup>	0.07 mg/m <sup>3</sup>	

#### PROTECTIVE EQUIPMENT



#### PROCESS CONDITIONS

Provide eyewash station.

#### ENGINEERING MEASURES

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded.

#### RESPIRATORY EQUIPMENT

In case of inadequate ventilation or risk of inhalation of vapours, use suitable respiratory equipment with combination filter (type A2/P3).

#### HAND PROTECTION

Use protective gloves made of: Nitrile. Rubber (natural, latex). Rubber, neoprene or PVC.

#### EYE PROTECTION

Wear approved safety goggles.

#### HYGIENE MEASURES

Wash hands after contact.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Coloured liquid.
COLOUR	Brown.
ODOUR	Characteristic.
RELATIVE DENSITY	1.16 25
VISCOSITY	350 - 450 cP 25
FLASH POINT (°C)	>180

#### 10. STABILITY AND REACTIVITY

##### STABILITY

Stable under normal temperature conditions and recommended use.

##### CONDITIONS TO AVOID

Avoid heat, flames and other sources of ignition. Water, moisture.

##### MATERIALS TO AVOID

Strong acids. Amines. Bases, alkalis (inorganic). Bases, alkalis (organic). Alkaline earth metal in powder form: lead, zinc, aluminum, brass and tin. Acids, nitrile, ammonium compounds, cyanide, magnesium, organic nitro compounds, organic combustible substances, phenols, oxidizing agents

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#### HAZARDOUS DECOMPOSITION PRODUCTS

When heated, toxic and corrosive vapours/gases may be formed. Hydrogen cyanide (HCN).

#### 11. TOXICOLOGICAL INFORMATION

##### INHALATION

Not relevant at normal room temperatures. When heated, toxic vapours may be formed. INGESTION

May cause discomfort if swallowed. Irritating. May cause nausea, stomach pain and vomiting.

##### SKIN CONTACT

May cause sensitization by skin contact.

##### EYE CONTACT

Irritation of eyes and mucous membranes.

##### ROUTE OF ENTRY

Inhalation. Ingestion. Skin and/or eye contact.

#### 12. ECOLOGICAL INFORMATION

##### ECOTOXICITY

Dangerous for the environment if discharged into watercourses.

##### BIOACCUMULATION

No data available on bioaccumulation.

#### 13. DISPOSAL CONSIDERATIONS

##### GENERAL INFORMATION

Waste is classified as hazardous waste. Disposal to licensed waste disposal site in accordance with the local Waste Disposal Authority.

##### DISPOSAL METHODS

Dispose of waste and residues in accordance with local authority requirements.

#### 14. TRANSPORT INFORMATION



PROPER SHIPPING NAME (DIISOBUTYL PHTHALATE)	ENVIRONMENTALLY	HAZARDOUS	SUBSTANCE,	LIQUID,	N.O.S.
UN NO.	3082				
ADG CLASS NO.	9				
DG CLASS	Class 9: Miscellaneous dangerous substances and articles.				
PACKING GROUP	III				
TUNNEL RESTRICTION CODE	(E)				
ADG LABEL NO.	9				
HAZCHEM CODE	•3Z				
UN NO. SEA	3082				
IMDG CLASS	9				
IMDG PACK GR.	III				
EMS	F-A, S-F				
UN NO. AIR	3082				

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ICAO CLASS 9  
AIR PACK GR. III

#### 15. REGULATORY INFORMATION

##### LABELLING



Harmful Dangerous for the environment  
CONTAINS DIISOBUTYL PHTHALATE  
DIPHENYLMETHANE-4,4'-DI-ISOCYANATE  
DIPHENYLMETHANEDIISOCYANATE -Isomers & homologues  
RISK PHRASES

R20 Harmful by inhalation.  
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S25 Avoid contact with eyes.  
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S36/37 Wear suitable protective clothing and gloves.  
S38 In case of insufficient ventilation, wear suitable respiratory equipment.  
S45 In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).  
S57 Use appropriate containment to avoid environmental contamination.  
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##### EU DIRECTIVES

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

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#### **16. OTHER INFORMATION**

##### GENERAL INFORMATION

Only trained personnel should use this material.

##### RISK PHRASES IN FULL

R20	Harmful by inhalation.
R48/20	Harmful: danger of serious damage to health by prolonged exposure through inhalation.
R36/37/38	Irritating to eyes, respiratory system and skin.
R40	Limited evidence of a carcinogenic effect.
R61	May cause harm to the unborn child.
R42/43	May cause sensitization by inhalation and skin contact.
R42	May cause sensitization by inhalation.
R62	Possible risk of impaired fertility.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

##### DISCLAIMER

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. Saint-Gobain (Singapore) Pte Ltd shall not be held liable for any damage resulting from contact with or handling of the above product.