

## SAFETY DATA SHEET

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

Product Name: **Estomax MX100**  
 Application: Crystallization Admixture Waterproofing  
 Company: Denka Construction Solutions Malaysia Sdn Bhd  
 Address: No. 18, Jalan Utas 15/7, Seksyen 15, 40200 Shah Alam, Selangor, Malaysia  
 Telephone: 03 – 55108810 Fax: 03 – 55100708

### 2. HAZARD IDENTIFICATION

#### A. Hazard Risk Classification

- Health Hazard
  - Skin irritation : Category 2
  - Serious eye damage : Category 1
  - Skin sensitization : Category 1
  - STOT – single exposure : Category 3

#### B. Label elements including precaution statements.

- Symbol:



- Signal word: Danger
- Hazard Risk Statement
  - H315 Causes skin irritation.
  - H318 Causes serious eye damage.
  - H317 May cause an allergic skin reaction.
  - H335 May cause respiratory irritation.
- Precautionary Statement (Prevention)
  - P280 Wear protective gloves / protective clothing / eye protection / face protection & approved duct masks.
  - P261 Avoid breathing dust/fume/gas/mist/vapour/spray
  - P264 Wash thoroughly after handling.

## (Response)

P260	Do not breathe dust
P264	Wash thoroughly after handling
P280	Wear protective gloves / protective clothing / eye protection / face protection.
P305 + P351 + P338 + P310	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a doctor / physician.
P304 + P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P302 + P352 + P333 + P313	IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs, get the medical advice

## (Storage)

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

## (Disposal)

P501 Dispose of contents / container in accordance with applicable law

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients	CAS No	Content, %
Silica Fume	69012-64-2	40 – 50
Ordinary Portland Cement	65997-15-1	45 – 55
Calcium sulphate	7778-18-9	0 – 10
Aluminium calcium oxide sulfate	12005-25-3	0 – 6
Calcium oxide	1305-78-8	0 – 4

All constituents of this product are listed in EINECS (European Inventory of Existing Commercial Chemical Substances) or EILINCS (European List of New Chemical Substances) or are exempt.  
Refer to Section 8 for Occupational Exposure Limits.

### 4. FIRST AID MEASURES

Eyes:	Flush eyes with plenty of water for at least 5 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.
Skin:	Flush skin with plenty of soap and water for at least 5 minutes while removing contaminated clothing and shoes.
Inhalation:	Remove from exposure to fresh air immediately.
Ingestion:	If victim is conscious and alert, give 2-4 cup fulls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid.

### 5. FIRE FIGHTING MEASURES

Fire	Not considered to be a fire hazard
Explosion	Not considered to be an explosion hazard.
Suitable Extinguishing Media	Use any means suitable for extinguishing surrounding fire.
Fire Fighting Instruction	In the event of a fire, wear full protective clothing and appropriate self contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode.

## 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Not applicable
Environmental Precautions:	Not applicable
Additional Information:	Ventilate area of leak or spill. Keep unnecessary and unprotected people away from area of spill. Wear appropriate personal protective equipment as specified in Section 9. For small spills, flush area with water; prevent washings from entering waterways. For large spills, collect and place in a suitable container for reclamation or disposal, using a method that does not generate dust.

## 7. HANDLING AND STORAGE

Handling:	Keep in tightly closed (plastic, polyethylene, polypropylene, plastic carboxyl, polyliner) containers. Protect against physical damage. Isolate from incompatible substances. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.
Storage:	Store in cool, dry and ventilated area. Keep away from heat, sparks, and open flame.

## 8. EXPOSURE CONTROL / PERSONAL PROTECTION

### Ventilation System:

A system of local and/or general exhaust is recommended to keep employee exposure as low as possible. Local exhaust ventilation is generally preferred because it can control the emission of the contaminant at its source, preventing dispersion of it into the general work area.

### Skin Protection:

Wear impervious protective clothing, including boots, glove, lab coat, apron or coveralls, as appropriate to prevent skin contact.

### Eye Protection:

Use chemical safety goggles and/or a full face shield where splashing is possible. Maintain eye wash fountain and quick-drench facilities in work.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Powder
Colour	Grey
Odour	Not specific
Solubility in water	Soluble
Melting Index	N/A
Boiling Index	Not applicable
Vapour Pressure (mm Hg at 25°C)	Not applicable
Percentage Volatiles	N/A
Evaporation Rate	Not applicable
Vapour Density	Not applicable
Specific Gravity, g/cm <sup>3</sup>	N/A
Flash Point	N/A
Auto ignition temperature	Not applicable
Flammable limit (%)	Not applicable
pH	N/A

## 10. STABILITY AND REACTIVITY

Stability:	Stable under ordinary conditions of use and storage
Hazardous Polymerization:	No information available
Condition to avoid:	Humid condition during storage may cause lump formation
Hazardous Decomposition Product:	No information available

## 11. TOXICOLOGICAL INFORMATION

Toxicology assessment based on product's component.

### Ordinary Portland cement

Acute toxicity – dermal	No lethality
Acute toxicity – inhalation	No acute toxicity by inhalation observed
Skin corrosion / irritation	May cause thickening, cracking or fissuring of the skin
Serious eye damage / irritation	Direct contact with cement may cause corneal damage by mechanical stress, immediate or delayed irritation or inflammation
Skin sensitization	May develop eczema
STOT – single exposure	May irritate the throat and respiratory tract
STOT – repeated exposure	No chronic effects or effects at low concentration have been observed

### Calcium sulphate

Acute toxicity	LD50 oral rat >3000 mg/kg
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### Calcium oxide

Acute toxicity	LD50 oral rat >2000 mg/kg
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## 12. ECOLOGICAL INFORMATION

Ecological assessment based on product's component.

### Ordinary Portland cement

Toxicity	Not hazardous to environment
Persistence and degradability	Not relevant
Bio-accumulative potential	Not relevant
Mobility in soil	Not relevant

### Calcium sulphate

Toxicity	LC50 fishes 1: 2980 mg/l (96 h – <i>Lepomis macrochirus</i> LC50 fishes 2: >1970 mg/l (96 h – <i>Pimephales promelas</i> )
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### Calcium oxide

Toxicity	LC50 fishes 1: 1070 mg/l (96 h – <i>Cyprinus carpio</i> )
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## 13. DISPOSAL CONSIDERATIONS

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste facility. Although not listed as a scheduled hazardous waste with the Environmental Quality (Scheduled Wastes) Regulations 1989, this material may exhibit one or more characteristics of a hazardous waste and require appropriate analysis to determine specific disposal requirements.

## 14. TRANSPORT INFORMATION

IATA-DGR	Not dangerous goods
IMDG-Code	Not dangerous goods

## 15. REGULATORY INFORMATION

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

- (a) Occupational Safety and Health Act 1994 and relevant regulations
- (b) Occupational Safety and Health (Classification, Labelling and Safety Data Sheet of Hazardous Chemicals) Regulations 2013.
- (c) Environmental Quality Act 1974
- (d) Implementation of the CLP Regulation – Classification for Portland cement clinker and common cements (Cembureau)

## 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 application. Use of the product for applications other than as stated in this sheet may give rise to risks not mentioned in this sheet. The product should not be used than for the stated application or applications without seeking advice from Denka Construction Solutions Malaysia Sdn Bhd.

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

It is the responsibility and duty of the employer to inform employees and others who may be affected of any hazards described to 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.

<b>SDS</b>	<b>Estomax MX100</b>
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