

SAFETY DATA SHEET

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

Product Name: **ESTOPATCH MP**
 Application: Cementitious cement mortar
 Company: **Denka Construction Solutions Malaysia Sdn Bhd**
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2: HAZARDS IDENTIFICATION

A. Hazard Risk Classification

- Health hazard
 - Skin irritation: Category 2
 - Serious eye damage / eye irritation: Category 1
 - Carcinogenicity: Category 1A
 - Specific Target Organ Systemic toxicity – Single Exposure: Category 3

B. Label element including precaution statement.

- Symbol:



- Signal word : Danger
- Hazard Risk Statement
 - H315 : Causes skin irritation
 - H318 : Causes serious eye damage
 - H335 : May cause respiratory irritation.
 - H350 : May cause cancer
- Precautionary Statement:
 - P201 : Obtain special instruction before use
 - P202 : Do not handle until all safety precautions have been read and understood.
 - P261 : Avoid breathing dust/fume/mist/vapour/spray
 - P264 : Wash skin thoroughly after handling.
 - P271 : Use only outdoors or in a well-ventilated area.
 - P280 : Wear Protective gloves/protective clothing/ eye protection/face protection.
 - P281 : Use personal protective equipment as required.

- Response:

- P302 + P352 : IF ON SKIN: Wash with plenty of soap and water.
- P304 + P340 : IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P305 + P351 + P338 : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P308 + P313 : IF exposed or concerned: Get medical advice/attention.
- P310 : Immediately call a POISON CENTER or doctor/physician.
- P332 + P313 : if skin irritation occurs: Get medical advice/attention.
- P362 : Take off contaminated clothing and wash before reuse.

- Storage:

- P403 + P233 Store in a well ventilated place. Keep container tightly closed.
- P405 Store locked up.

- Disposal:

- P501 Dispose of contents/container to an approved waste disposal plant.

3: COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	Cas Number	%
Silica sand	14808-60-7	45 – 50
Portland Cement	65997-15-1	35 – 40
Silica Fume	69012-64-2	1 – 5
Ethyl Hydroxyethyl Cellulose	9004-58-4	1 – 5

4: FIRST AID MEASURES

Eyes:	Irrigate immediately with copious quantities of water for several minutes. Obtain medical attention urgently.
Skin:	Wash immediately with copious quantities of water. Remove contaminated clothing immediately. Obtain medical advice if skin disorders develop.
Inhalation:	Remove from exposure, rest and keep warm and obtain medical attention urgently.
Ingestion:	Wash out mouth with water. Do NOT induce vomiting. Obtain medical attention.

5: FIRE FIGHTING MEASURES

Suitable Extinguishing Media:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment
Specific Extinguishing methods	Collect contaminated fire extinguishing water separately. This must not be discharge into drains. Fire residues and contaminated fire extinguisher water must be disposed of in accordance with local regulations.
Special Protective Equipment:	In case of fire, wear self-contained breathing apparatus.

6: ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Wear rubber boots in addition to the recommended protective clothing.
Environmental Precautions:	Prevent entry into drain, sewers and water courses.
Decontamination Procedures:	Avoid the creation of dust in atmosphere. Gather into containers. Residues maybe flushed to drain with large volumes of water.

7: HANDLING AND STORAGE

Handling:	Do not breathe vapour/dust. Do not get in eyes, on skin, or on clothing. Smoking, eating, and drinking should be prohibited in the application area.
Storage:	Store in original packing. Keep in a well-ventilated place.

8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits:		8Hour	STEL	Source / Other Information
Substance				
Silica, amorphous:				
Total inhalable dust	6mg/m ⁻³	-----		EH40
Respirable dust	3mg/m ⁻³			
Portland cement				
Total inhalable dust	10mg/m ⁻³	-----		EH40
Respirable dust	5mg/m ⁻³			
Engineering Control Measures:	Atmospheric levels of dust must be maintained within the Occupational. Exposure Standard. Where mechanical methods are inadequate or impractical, appropriate personal protective equipment must be used.			
Personal Protective Equipment:	Impervious gloves (eg PVC). Goggles / safety glass Approved dust mask. Change contaminated clothing immediately and clean after reuse.			

9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Granulated powder
Colour	Grey
Odour	Odorless
pH (working dilution)	>12
Boiling Point / Range (°C)	Not applicable

Flash Point (closed °C)	None
Relative Density (at 20°C)	1.4 (bulk)
Water Solubility	Insoluble

10: STABILITY AND REACTIVITY

Stability:	Stable.
Conditions to avoid:	Exposure to air. Contamination with water.
Materials to avoid:	Strong acids.
Hazardous Decomposition Products:	None.

11: TOXICOLOGICAL INFORMATION

Acute Toxicity	: No data available
Skin Corrosion / irritation	: Cause skin irritation
Serious eye damage / eye irritation	: Cause serious eye damage
Respiratory or skin sensitization	: No data available
Germ cell mutagenicity	: No data available
Carcinogenicity	: May cause cancer.
Reproductive Toxicity/Fertility	: No data available
STOT – single exposure	: May cause respiratory irritation
STOT – repeated exposure	: Prolonged exposure can cause silicosis

Health Effects.

On eyes:	Irritating and may injure eye tissue if not removed promptly.
On skin:	Irritation. See “chronic” effects.
By Inhalation:	Irritating to respiratory system. Inflammation of the nasal mucous membrane by exposure to cement dust.
By Ingestion:	May cause irritation of mouth, throat and digestive tract.
Chronic :	Cement, cementitious grouts and mortars are known to cause both irritant and allergic contact dermatitis. Prolonged skin contact can result in chemical burns.

12: ECOLOGICAL INFORMATION

Environmental Assessment:	Little detailed information is available on the ecological effects of this product, but its overall environmental impact is not regarded as significant.
Mobility :	Insoluble in water.
Persistence & Degradability:	Not readily biodegradable.
Bioaccumulated Potential:	Not expected to be bioaccumulated.
Ecotoxicity :	Not expected to be ecotoxic to fish / daphnia / algae.

13: DISPOSAL CONSIDERATIONS

Disposal must be in accordance with local and national legislation.

Unused Product: Dispose of in an approved manner. Used / Contaminated Product As for unused product.
Packaging: The method of disposal must be acceptable to the local authority.

14: TRANSPORT INFORMATION

IATA-DGR	Not regulated for transport of dangerous good
IMDG-Code	Not regulated for transport of dangerous good
ADR/RID	Not regulated for transport of dangerous good

15: REGULATORY INFORMATION

Hazard Label Data	
Symbols (s):	Xi
Risk Phrases:	Irritating to eyes, respiratory system and skin
Safety Phrases:	Do not breathe dust. Avoid contact with skin and eyes Wear suitable gloves and eye / face protection In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. After contact with skin, wash immediately with plenty of soap and water
EC Directives:	Dangerous Substances Directive, 67/548/EEC and adaptations. Dangerous Preparation Directive, 88/379/EEC Safety Framework Directive, 89/391/EEC. Safety Data Sheets Directive, 91/155/EEC.
Statutory Instruments:	Chemicals (Hazard Information and Packaging for Supply) (Amendment) Regs. 1996 (SI 1092) Health and Safety at Work, etc Act 1974 Control of Substances Hazardous to Health Regs. 1994 (SI3246)
Codes of Practice:	Waste Management. The Duty of Care.
Guidance Notes:	Occupational skin disease: health and safety precautions (EH26) Dust in workplace: general principles of protection. (EH 44) Occupational Exposure Limits (EH40).

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 other than for the stated application or applications without seeking advice from Denka Construction Solutions Malaysia Sdn Bhd.

If this 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 secure 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 any 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.

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