

SAFETY DATA SHEET

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

Product Name : ESTOKOTE FLEXI POWDER
 Application : Powder component of cementitious waterproofing membrane system
 Company : **Denka Construction Solutions Malaysia Sdn Bhd**
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2. HAZARDS IDENTIFICATION

A. Hazard Risk Classification

This material is irritating to eyes, respiratory system and skin.

Serious eye damage/ eye irritation: Category 2

Skin corrosion/ irritation: Category 2

B. Label elements including precaution statements.

- Symbol:



- Signal word: Warning
- Hazard Risk Statement
 - H312 Harmful if contact with skin
 - H315 Cause skin irritation.
 - H319 Causes serious eye irritation.
 - H332 Harmful if inhaled
 - H335 May cause respiratory irritation
- Precautionary Statement (Prevention)
 - P261 Avoid breathing dust/fume/gas/mist/vapour spray
 - P264 Wash hand thoroughly after handling.
 - P270 Do not eat, drink, or smoke when using this product
 - P280 Wear protective gloves, clothing eye and face protection from competent authority.
 - P322 Specific measures: refer to first aid instruction
 - P302 + P352 If on skin: wash with plenty of soap and water
 - P304 + P340 If inhaled: Remove victim to fresh air and keep rest in a position comfortable for breathing
 - P301 + P312 + P330 If swallowed: Rinse mouth. Call a Poison Centre or doctor/physician
 - P332 + P313 + P362 If skin irritation occurs: Take off contaminated clothing and wash before reuse Get medical advice/attention
 - P305 + P351 + P338 If in eyes: remove contact lenses, if present and easy to do, rinse cautiously with water for several times
 - P337 + P313 If eye irritations persists: get the medical advice / attention

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients	CAS no.	%
Cement (OPC)	65997-15-1	30-40
Silica sand	14808-60-7	30-35
Calcium Carbonate	471-34-1	35-40

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	Irrigate immediately with copious of quantities of water for several minutes. Obtain medical attention if irritation persists.
Skin	Wash immediately with copious 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	None, not flammable
Special Exposure Hazards	None
Special Protective Equipment	None

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 may be flushed to drain with large volumes of water.

7. HANDLING AND STORAGE

Handling	Avoid create dust. Avoid breathing dust. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid skin and eye contact.
Storage	Store in cool, dry area

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Occupational Exposure Limits :

Substance	8 Hour TWA	STEL	Source / Other information
silica amorphous : total inhalable dust	6 mgm ⁻³	---	EH40
respirable dust	3 mgm ⁻³	---	
portland cement : total inhalable dust	10 mgm ⁻³	----	EH40
respirable dust	5 mgm ⁻³		

Engineering Control Measures
Occupational

Atmospheric levels of dust must be maintained within the

Exposure Standard. Where mechanical methods are inadequate or impractical, appropriate personal protective equipment must be used.

Personal Protective Equipment
Approved dust

Impervious gloves (e.g PVC). Goggles / safety glasses.

mask. Change contaminated clothing immediately and

clean before re-use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Granulated powder
Colour	Grey powder
Odour	Odourless
pH (working dilution)	>12
Boiling point / Range (°C)	Not applicable
Flash Point (closed, °C)	Not applicable
Autoflammability (°C)	Not applicable
Explosive Properties	Not applicable
Oxidising Properties (%)	Not
Determined Vapour Pressure (mbar at 20°C)	Not
known Relative Density (at 25°C)	3
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

On eyes promptly.	Irritating and may injure eye tissue if not removed
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 tract.	May cause irritation of mouth, throat and digestive tract.
Chronic	Cement, cementitious grout 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
Bioaccumulative Potential	Not expected to be bioaccumulative.
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 approved manner.
Used / Contaminated Product	As for Unused product.
Packaging authority.	The method of disposal must be acceptable to the local authority.

14. TRANSPORT INFORMATION

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

15. REGULATORY INFORMATION

Hazard Label Data

Named Ingredients	Cement powders
Symbol(s)	Xi
Risk Phrases	Irritating to eyes, respiratory system and skin.
Safety Phrases	Do not breathe dust Avoid contact with skin and eyes In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing, gloves and eye / face protection.
EC Directives adaptations.	Dangerous Substances Directive, 67/548/EEC and Dangerous preparations Directive, 88/379/EEC. Safety Data Sheet directive, 91/155/EEC.
Statutory Instruments	Chemical (Hazard Information and Packaging)Regs1993 (SI1746) Health and Safety at Work, etc ACT 1974. Control of Substances Hazardous to Health Regs, 1988 (SI 1657).
Codes Practice Guidance Notes	Waste Management. The Duty of Care. Occupational skin diseases: Health and safety precautions (EH26) Dust in the workplace : General principles of protection. (EH44) Occupational exposure limits (EH40)

The above publications are available from HMSO.

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 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 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.

SDS Reference:	Estokote Flexi Powder
Date Printed	26/01/2024
Revision	04



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