

SAFETY DATA SHEET

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

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

2: HAZARDS IDENTIFICATION

Type of product: Component / Mixture

A. Hazard Risk Classification

- Skin Irritation: Category 2
Serious Eye Damage / Eye Irritation: Category 1
Skin Sensitisation: Category 1
Specific Target Organ Toxicity (single exposure respiratory tract irritation: Category 3

B. Label elements including precaution statements.

- Symbol:



- Signal word: Danger
- Hazard Risk Statement
H315 Causes skin irritation
H317 May cause an allergic skin reaction
H318 Causes serious eye damage
H335 May cause respiratory irritation, May cause cancer (inhalation), Causes damage to organs (lung/respiratory system) through prolonged or repeated exposure (inhalation)

- Precautionary Statement

(Prevention)

- P201 Obtain special instruction before use.
P202 Do not handle until all safety precautions have been read and understood.
P260 Do not breathe dust.
P264 Wash your handling region thoroughly after handling.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

(Response)

P312	Call a poison centre / doctor if you feel unwell
P314	Get medical advice / attention if you feel unwell
P405	Store locked up
P501	Dispose of contents / container to harden by application of water and dispose of as concrete waste
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
P302 + P352 + P333 + P313	IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs, get medical advice / attention
P261 + P304 + P340 + P312	Avoid breathing dust/fume/gas/mist/vapours/spray. IF INHALE: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a doctor / physician if you feel unwell

3: COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS No.	Content, %
Cement (OPC)	65997-15-1	50-60
Silica sand	14808-60-7	15-25
Silica Flour	014808-60-7	10-20
Triethoxyoctylsilane	2943-75-1	1-5

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

Description of first aid measure,

General Advice:	Move out the dangerous area. Consults a physician. Show this safety data sheet to the doctor in attendance
Eyes:	Do not rub eyes in order to avoid possible cornea damage at a result of mechanical stress Incline head to injured eye, open the eyelid(s) widely and flush eye(s) immediately by thoroughly rinsing with plenty of clean water for at least 20 minutes to remove all particles. Remove content lenses, if present and easy to do, continue rinsing. Avoid flushing particles into uninjured eye.
Skin:	Wash skin with plenty of water. Seek medical attention if situation persist for rash and irritation.
Inhalation:	Move the person to fresh air and keep at rest in a position comfortable for breathing. Seek medical attention for discomfort or if coughing or other symptoms do not subside.
Ingestion:	Do not induce vomiting. If conscious, give plenty of water to drink. Get immediate medical attention or consult physician.

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 suitable protective clothing, gloves and eye/face protection.
Environmental Precautions:	Prevent entry into drains, sewers and water courses.
Decontamination Procedures:	Soak up with inert absorbent or contain and remove by best available means. Gather into containers. Dispose of as waste.

7: HANDLING AND STORAGE

Handling:	Avoid skin and eye contact. Do not sweep. Use cleanup methods such as vacuum clean-up or vacuum extraction, which do not cause airborne dispersion
Storage:	Keep containers dry and tightly closed.

8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits:	None assigned.
Engineering Control Measures:	Measures to reduce generation of dust and to avoid dust propagating in the environment such as de-dusting, exhaust, ventilation and dry clean-up methods which do not cause airborne dispersion.
Personal Protective Equipment:	Impervious gloves (eg PVC). Safety glasses / Goggles. Plastic apron. Change contaminated clothing and clean before re-use.

9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Granulated powder
Colour:	Grey
Odour:	Odorless
pH(concentrate):	No data
Boiling Point/Range (°C):	No data
Flash Point (closed, °C):	No data
Explosive Properties (%):	No data
Vapour Pressure (kPa at 20°C):	No data
Specific Gravity (kg/L):	1.60-1.90 (mixed)
Water Solubility:	Partially soluble.

10: STABILITY AND REACTIVITY

Possibility of hazardous reaction:	Do not cause hazardous reactions
Conditions to Avoid:	Humid conditions during storage may cause lump formation and loss of product quality
Incompatible materials:	Acids, ammonium slats, aluminum or other non-noble metals.
Hazardous Decomposition Products:	Not decompose into hazardous products

11: TOXICOLOGICAL INFORMATION

The following toxicological assessment is based on a knowledge of the toxicity of the product's components:

Acute toxicity – dermal:	Limit test, rabbit, 24 hours contact, 2000 mg/kg body weight – no lethality
Acute toxicity – inhalation:	No acute toxicity by inhalation observed
Acute toxicity – oral:	No indication of oral toxicity from studies with cement kiln dust
Skin corrosion / irritation:	May cause thickening, cracking or fissuring of the skin.
Serious eye damage / irritation:	May cause corneal damage by mechanical stress, immediate or delayed irritation or inflammation
Skin sensitization:	May develop eczema upon exposure to wet cement dust
Respiratory sensitization:	No indication of sensitization of respiratory system
STOT – single exposure:	May irritate the throat and respiratory tract. Coughing, sneezing and shortness of breath may occur following exposure in excess of occupational exposure limits
STOT – repeated exposure:	No chronic effects or effects at low concentration have been observed.

12: ECOLOGICAL INFORMATION

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

13: DISPOSAL CONSIDERATIONS

Disposal must be in accordance with local and national legislation.

Unused / Used Product:	Dispose of according to the local legislation. Avoid entry into sewage water system
Contaminated Product:	As for unused product.
Packaging:	Must be disposed of through to the local legislation

14: TRANSPORT INFORMATION

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

15: REGULATORY INFORMATION

Hazard Label Data:-

Symbol(s):	Xi
Risk Phrases:	Irritating to eyes and skin. May cause sensitization by skin contact. Causes serious eye damage
Safety Phrases:	Do not breathe dust, gas/fumes/vapor/spray (appropriate wording to be specified by the manufacturer) Avoid contact with skin Wear suitable gloves and eye/face protection Use appropriate container to avoid environmental contamination

SHE Regulation: Occupational Safety and Health Act 1994 and relevant regulation
Occupational Safety and Health (Classification, Labelling and Safety Data Sheet of Hazardous Chemicals) Regulations 2013
Environmental Quality Act 1974
Directive 67/548/EEC

16: OTHER INFORMATION

Also refer to the Safety Data Sheet (s) for information on other components of this product. 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.

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