

SAFETY DATA SHEET

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

Product Name: **ESTOP WATERPLUG**
 Application: Rapid Setting Hydraulic Cementitious Mortar
 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 Corrosion / Irritation: Category 2
 Serious Eye Damage / Eye Irritation: Category 2

B. Label elements including precaution statements.

- Symbol:



- Signal word: Warning
- Hazard Risk Statement
 H302 Harmful if swallowed.
 H315 Cause skin irritation.
 H319 Causes serious eye irritation.
 H372 Causes damage to organs through prolonged or repeated exposure
- Precautionary Statement (Prevention)
 P201 Obtain special instruction before use.
 P202 Do not handle until all safety precautions have been read and understood.
 P264 Wash skin thoroughly after handling.
 P270 Do not eat, drink or smoke when using this product.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P332 + P313 If skin irritation occurs. Get medical advice / attention.
 P362 Take off contaminated clothing and wash before reuse.

- Response
P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth
P337 + P313 If eye irritation persists: Get medical advice/attention.
- Disposal
P501 Dispose of contents/container to an approved waste disposal plants.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients	Cas Number	%
Cement (OPC)	65997-15-1	10 ~ 15
Silica Sand	14808-60-7	20 ~ 30
Calcium Hydroxide	1305-62-0	5 ~ 10
Lithium Carbonate	554-13-2	0 ~ 5
Calcium Aluminate	65997-16-2	50 ~ 60

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 quantity of water for several times. Obtain medical attention urgently.
Skin:	Wash thoroughly 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:	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. Residue may be flushed to drain with large volumes of water. Prior consent must be obtained from local Water Company if discharged into sewer.

7. HANDLING AND STORAGE

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

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Occupational Exposure Limits:			
Substance	8Hour TWA	STEL	Source / Other Information
Calcium Hydroxide	6mgm ⁻³	-----	EH40
Silica, amorphous:			
Total inhalable dust	6mgm ⁻³	-----	EH40
Respirable dust	2.4mgm ⁻³		
Aluminium metal:			
Total inhalable dust	10mgm ⁻³	-----	EH40
Respirable dust	4mgm ⁻³		
Engineering Control Measures:	Atmospheric levels of dust must be maintained within the Occupational Exposure Limit. Where mechanical methods are inadequate or impractical, appropriate personal protective equipment must be used.		
Personal Protective Equipment:	Imperious gloves (eg PVC). Goggles/safety glasses. Approved dust mask. Wear imperious, chemical resistant boots.		

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Granulated Powder
Colour	Grey
Odour	Odourless
pH (working dilution)	>12
Boiling Point / Range (°C)	Not applicable
Flash Point (closed °C)	None
Relative Density (at 20 °C)	1.35 (bulk)
Water Solubility	Insoluble

10. STABILITY AND REACTIVITY

Stability:	Stable
Condition:	Exposure to air. Contamination with water.
Material to avoid:	Strong acids.
Hazardous Decomposition Product:	None.

11. TOXICOLOGICAL INFORMATION

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:	Partially soluble 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

UN number	Not relevant
UN proper shipping name	Not relevant
Transport hazard class	Not relevant
Packing group	Not relevant
Special precautions for user	Not relevant
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not relevant
Environmental hazards Environmentally Hazardous Substance/Marine Pollutant:	No.

15. REGULATORY INFORMATION

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

Uk Regulatory References:

The Control of Substances Hazardous to Health Regulations 2002 (S.I 2002 No. 2677) with amendments.

Statutory Instruments

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716).

Approved Code of Practice

Classification and Labelling of Substances and Preparations Dangerous for Supply.

Safety Data Sheets for Substances and Preparations.

Guidance Notes Workplace Exposure Limits EH40.

CHIP for everyone HSG (108).

EU Legislation

Dangerous Substance Directive 67/548/EEC.

Dangerous Preparations Directive 1999/45/EC.

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments.

Chemical Safety Assessment

No chemical safety assessment has been carried out

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.

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