

## SAFETY DATA SHEET

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

Product Name: **ESTOGROUT MP60**  
Application: Cementitious grout  
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 – 55188202

### 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  
H315 Cause skin irritation.  
H319 Causes serious eye irritation.
- Precautionary Statement (Prevention)  
P201 Obtain special instruction before use.  
P202 Do not handle until all safety precautions have been read and understood.  
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.

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### 3. COMPOSITION / INFORMATION ON INGREDIENTS

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Ingredients	Cas Number	%
Cement (OPC)	65997-15-1	50 ~ 60
Silica Sand	14808-60-7	40 ~ 45
Expanding agent	7429-90-5	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.

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### 4. FIRST AID MEASURES

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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.

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### 5. FIRE FIGHTING MEASURES

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Suitable Extinguishing Media:	None, not flammable.
Special Exposure Hazards:	None.
Special Protective Equipment:	In event of fire, wear self-contained breathing apparatus for firefighters

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### 6. ACCIDENTAL RELEASE MEASURES

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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.

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### 7. HANDLING AND STORAGE

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Handling:	Avoid breathing dust. In case of sufficient 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	8Hour TWA	STEL	Source / Other Information
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### Silica, amorphous:

Total inhalable dust	6mgm <sup>-3</sup>	-----	EH40
Respirable dust	2.4mgm <sup>-3</sup>		

### Aluminium metal:

Total inhalable dust	10mgm <sup>-3</sup>	-----	EH40
Respirable dust	4mgm <sup>-3</sup>		

### 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)	1.6 (bulk)
Water Solubility	Partially soluble

## 10. STABILITY AND REACTIVITY

### Stability:

Stable

### Condition:

Exposure to air. Contamination with water.

### Material to avoid:

Strong acids.

### Hazardous Decomposition Product:

None.

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## 11. TOXICOLOGICAL INFORMATION

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<b>Acute Toxicity</b>	No data available
<b>Skin Corrosions / Irritation</b>	Causes severe burns
<b>Serious eye damage / eye irritation</b>	Causes serious eye damage
<b>Respiratory or skin sensitisation</b>	Not classified based on available information
<b>Germ cell mutagenicity</b>	Not classified based on available information
<b>Carcinogenicity</b>	Not classified based on available information
<b>Reproductive toxicity</b>	Not classified based on available information
<b>STOT – single exposure</b>	Not classified based on available information
<b>STOT – repeated exposure</b>	Not classified based on available information
<b>Aspiration toxicity</b>	Not classified based on available information

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## 12. ECOLOGICAL INFORMATION

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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.

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## 13. DISPOSAL CONSIDERATIONS

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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.

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## 14. TRANSPORT INFORMATION

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

## 15. REGULATORY INFORMATION

### Hazard Label Data

Name Ingredients:	Cement Powders
Symbols (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. After contact with skin, wash immediately with plenty of soap and water.
EC Directives:	Dangerous Preparation Directive, 88/379/EEC Dangerous Substance Directive, 67/548/EEC and adaptations Safety Data Sheet Directive, 91/155/EEC
Statutory Instruments:	Chemical (Hazard Information and Packaging for Supply) (Amendment) Regs. 1996 (SI 1092)
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)

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 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>EstogROUT MP60</b>
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