

SAFETY DATA SHEET

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

Product Name: **ESTOGROUT ADMIX PE**
 Application: Grout Admixture
 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) : Category 3

B. Label elements including precaution statements.

- Symbol:



- Signal word: Warning
- Hazard Risk Statement
 - H315 Causes skin irritation
 - H319 Causes serious eye irritation.
 - 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.
- P281 Use personal protective equipment as required

(Response)

P312	Call a poison centre / doctor if you feel unwell
P314	Get medical advice / attention if you feel unwell
P363	Wash contaminated clothing before reuse.
P308 + P313	If exposed or concerned: Get medical attention.
P261 + P304 + 340 + P312	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.
P301 + P330 + P331	IF SWALLOWED: Rinse mouth. Do not induce vomiting.
P302 + P352 + P333 + P313	IF ON SKIN (or hair): Wash with plenty of soap and water. If skin irritation or rash occurs, get medical advice / attention.
P305 + P351 + P338 + P310	IN 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

(Storage)

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

(Disposal)

P501	Dispose of contents / container to harden by application of water and dispose of as concrete waste
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3: COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS No.	Content, %
Silica sand	14808-60-7	80-90
Superplasticizer	62601-60-9	9-10
Aluminium powder	7429-90-5	0 – 1

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. Get immediately medical attention or consult physician.
Skin:	Wash skin with plenty of water. Remove contaminated clothing, footwear, watches etc. and clean thoroughly before re-using them. 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:	Wear complete protective clothing including self-contained breathing apparatus.

6: ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Wear suitable protective clothing, gloves and eye/face protection. Avoid airborne dust generation.
Environmental Precautions:	Prevent entry into drains, sewers and water courses.
Decontamination Procedures:	Avoid dry sweeping. Use water spraying or High Efficiency Particulate Air (HEPA) filtered vacuum cleaning system to minimize the raising of dust.

7: HANDLING AND STORAGE

Handling:	Avoid inhalation, skin and eye contact. Do not sweep. Use cleanup methods such as vacuum clean-up or vacuum extraction, which do not cause airborne dispersion. Avoid release to the environment. Spillages or uncontrolled discharges into watercourse must be alerted to the appropriate regulatory body.
Storage:	Keep containers dry and tightly closed. Store in cool, dry area protected from environmental extremes. Avoid from acid, alkali.

8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits:	None assigned.
Engineering Control Measures:	Use local exhaust or general dilution ventilation or other suppression methods to maintain dust levels below exposure limits.
Personal Protective Equipment:	Impervious gloves (eg PVC). Safety glasses / Goggles. Plastic apron. Change contaminated clothing and clean before re-use.
Respiratory protection:	Under ordinary conditions no respiratory protection is needed.
Eye protection:	Wear approved safety goggles when handling dust to prevent contact with eyes.
Skin protection:	Wear gloves in situations where abrasion from sand may occur. Remove clothing and protective equipment that becomes dusty and launder before reusing.

9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Powder
Colour:	Silver
Odour:	Slight / faint
pH(concentrate):	>12
Boiling Point/Range (°C):	No data
Flash Point (closed, °C):	No data
Explosive Properties (%):	No data
Vapour Pressure (kPa at 20°C):	No data
Relative Density (at 25°C):	1.3 (bulk)
Water Solubility:	Soluble

10: STABILITY AND REACTIVITY

Stability:	Stable
Possibility of hazardous reaction:	Do not cause hazardous reactions
Conditions to Avoid:	Extremely high temperature.
Material to avoid:	Strong acids and strong oxidizing agents.
Hazardous Decomposition Products:	At very high temperature (thermal decomposition), carbon dioxides and sulfur oxides

11: TOXICOLOGICAL INFORMATION

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

Silica sand

Skin contact	No effect
Skin absorption	No effect
Eye contact	No long term effect other than dust discomfort
Ingestion	No effect
Inhalation acute exposure	No immediate effect
Sensitization	No effect
Chronic exposure	Respiratory disease may develop such as silicosis, pneumoconiosis and pulmonary fibrosis

Superplasticizer

Acute toxicity-inhalation	No information found
Skin contact	No information found
Serious contact	No information found
Ingestion	No information found
Chronic toxicity	No information found
Carcinogenicity	No information found

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 applicable
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 through authorised contractor to a licensed site
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

This product is NOT classified as dangerous for supply

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.
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EC Directives:	Dangerous Preparation Directive, 88/379/EEC Dangerous Substance Directive, 67/548/EEC and adaptations Safety Data Sheet Directive, 91/155/EEC
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Statutory Instruments:	Chemical (Hazard Information and Packaging for Supply) (Amendment) Regs. 1996 (SI 1092) Control of Substances Hazardous to Health Regs. 1994 (SI3246)
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Codes of Practice:	Waste Management. The Duty of Care. Guidance Notes: Dust in workplace: General principles of protection. (EH 44) Occupational Exposure Limits (EH40)
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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.

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Denka Construction Solutions Malaysia Sdn Bhd
(591858-U)

No. 18, Jalan Utas 15/7, Seksyen 15,
40200 Shah Alam, Selangor Darul Ehsan, Malaysia
Tel: +603 5510 8810 Fax: +603 5518 8202

www.denka-cs.com

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