

SAFETY DATA SHEET

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

Product Name: **Estokote Grey Liquid**
Application: Liquid component of cementitious waterproofing membrane system
Company: **Denka Construction Solutions Malaysia Sdn Bhd**
Address: No. 18, Jalan Utas 15/7, Seksyen 15, 40200 Shah Alam, Selangor
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2: HAZARDS IDENTIFICATION

Type of product: Component / Mixture

A. Hazard Risk Classification

- Skin irritation/corrosion : Category 2
- Skin Sensitization : Category 1
- Serious eye damage/eye irritation : Category 2
- Acute toxicity : Category 2

B. Label elements including precaution statements.

- Symbol:



- Signal word: Danger
- Hazard Risk Statement
 - H312 Harmful if contact with skin
 - H315 Causes skin irritation
 - H317 May cause an allergic skin reaction
 - H319 Causes serious eye irritation
 - H332 Harmful if inhaled
 - H335 May cause respiratory irritation

- Precautionary Statement

(Prevention)

P201	Obtain special instruction before use.
P202	Do not handle until all safety precautions have been read and understood.
P261	Avoid breathing dust/fume/gas/mist/vapour spray
P264	Wash your handling region thoroughly after handling.
P270	Do not eat, drink or smoke when using this product
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P281	Use personal protective equipment as required

(Response)

P363	Wash contaminated clothing before reuse.
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	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 in accordance to local/national regulations
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3: COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS No.	Content, %
Styrene	100-42-5	15 – 20
Acrylic Emulsion	55965-84-9	15 – 20
Water	7732-18-5	50 – 60
Defoamer	61791-28-4	0 – 0.5

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,

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 contact 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 persists 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:	Carbon dioxide, powder, foam or water fog – Do not use water jets
Special Exposure Hazards:	Emulsion will not burn until water has evaporated.
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:	Soak up with inert absorbent or contain and remove by best available means. Gather into containers.

7: HANDLING AND STORAGE

Handling:	Avoid inhalation, skin and eye contact.
Storage:	Keep containers dry and tightly closed. Store in cool, dry areas. Protect from frost.

8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits:	None assigned.
Engineering Control Measures:	No specific ventilation requirement noted.
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:	Liquid
Colour:	White Milky
Odour:	Slight
pH(concentrate):	7.0 – 8.5
Boiling Point/Range (°C):	100
Flash Point (closed, °C):	No data
Explosive Properties (%):	No data
Vapour Pressure (bar at 20°C):	No data
Relative Density (at 25°C):	1.01 - 1.04
Water Solubility:	Soluble.

10: STABILITY AND REACTIVITY

Stability:	Stable
Material to avoid:	None known.
Condition to avoid:	Extremes of temperature and direct sunlight. Protect from freezing.
Hazardous Decomposition Products:	When polymer evaporates, polymer can burn and produce carbon monoxide, carbon dioxide and others product of combustion.

11: TOXICOLOGICAL INFORMATION

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

Styrene

Toxicology information	No toxicity data available
Skin contact	May be irritating to skin.
Eye contact	May be irritating to eyes.
Ingestion	May irritate the gastric tract causing nausea and vomiting.
Chronic effect	Not available
Carcinogenicity	Listed as a Group 2B: Possibly carcinogenic to humans according IARC

Acrylic Emulsion

Acute toxicity-oral	LD50 rat (oral): >2000 – 10000 mg/kg. Virtually nontoxic after a single ingestion.
Skin contact	Not irritating to skin.
Eye contact	Not irritating to eyes.
Skin sensitization	May cause sensitization by skin contact.
Serious eye damage/irritation	Non-irritant
Germ cell-mutagenicity	Based on available data, the classification criteria are not met
Carcinogenicity	Based on available data, the classification criteria are not met
Reproductive-toxicity	Based on available data, the classification criteria are not met
STOT-single exposure	No specific target organ toxicity to be expected.
STOT-repeated exposure	No adverse effect was observed.

12: ECOLOGICAL INFORMATION

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

Styrene

Ecotoxicity	No data available
Persistence/Degradability	Not available
Mobility	Not available
Bioaccumulative Potential	Not available
Environmental Potential	Not available

Acrylic Emulsion

Ecotoxicity	Toxicity to fish: LC50 (96 h): >100 mg/l, Brachydanio rerio Aquatic Invertebrates: EC50 (48 h): >100 mg/l, Daphnia magna Aquatic plants: EC50 (72 h): >100 mg/l, Scenedesmus subspicatus Microorganism: EC20 (0.5 h): >100 mg/l, activated sludge
Mobility	Not available
Persistence/Degradability	>70% DOC reduction. Easily eliminated from water.
Bioaccumulative Potential	Not to be expected

13: DISPOSAL CONSIDERATIONS

Unused Product	Dispose of in approved manner. Do not empty into drains, sewers or water courses.
Used/Contaminated Product	Same as for Unused Product.
Packaging	May be steam cleaned and recycled.

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

This product is NOT classified as dangerous for supply

Safety Phrases	Avoid contact with skin and eyes. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
EC Directives	Occupational Safety and Health, Regulation 2013

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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