

SAFETY DATA SHEET

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

Product Name: **Estomix**
Application: Integral waterproofer
Company: Denka Construction Solutions Malaysia Sdn Bhd
Address: No. 18, Jalan Utas 15/7, Seksyen 15, 40200 Shah Alam, Selangor, Malaysia
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2. HAZARD IDENTIFICATION

A. Hazard Risk Classification for every components:

- Health Hazard
 - Skin Corrosion / Irritation : Category 2, 3
 - Serious Eye Damage / Eye Irritation : Category 2, 2B
 - Acute toxicity (oral) : Category 4, 5
 - Acute toxicity (inhalation) : Category 3, 5
 - Acute toxicity (dermal) : Category 4, 5
 - Respiratory or skin sensitization : Category 1
 - Aspiration hazard : Category 2
 - STOT (single exposure) : Category 1
 - STOT (repeated exposure) : Category 2

B. Label elements including precaution statements.

- Symbol:



- Signal word: Danger
- Hazard Risk Statement
 - H302 Harmful if swallowed
 - H312 Harmful if contact with skin
 - H315 Cause skin irritation.
 - H319 Causes serious eye irritation.
 - H370 Cause damage to organs (central nervous system, blood, kidney, liver)
 - H373 May cause damage to organs (blood) 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.
 P260 Do not breathe fume/gas/mist/vapours/spray
 P264 Wash your handling region thoroughly after handling.
 P270 Do not eat, drink, or smoke when using this product
 P271 Use in outdoors or in well-ventilated area.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
- Response

P301 + P312 If swallowed: Call a poison center or doctor/physician if you feel unwell
 P302 + P352 If on skin: Wash with plenty of soap and water
 P304 + 340 If inhaled: Remove person to fresh air and keep comfortable for breathing
 P305 + P351 + P338 If in eyes: Rinse cautiously with water for several minutes.
 Remove contact lenses, if present and easy to do. Continue rinsing.
 P307 + P311 If exposed: Call a Poison Center or doctor/physician
 P332 + P313 If skin irritation occurs: Get medical advice/attention
 P312 Call a Poison Center or doctor/physician if you feel unwell
 P337 + P313 If eyes irritation persists: Get medical attention
- Storage

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

P501 Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients	Cast no.	%
Water	7732-18-5	70 – 80
Sodium Lignosulphonate	8061-51-6	5 – 10
Ethylene Glycol	111-76-2	5 – 10
Methyl Ester	111-82-0	5 – 10

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: In case of direct contact, rinse cautiously with clean water for at least 15 minutes.
 Remove contact lenses if present and easy to do. Continue rinsing. Seek medical attention immediately if irritation persists.

Skin: Remove contaminated clothing. Wash thoroughly with soap and water at least 15 minutes.
 If irritation persists, seek medical attention immediately.

Inhalation: Remove from exposure. Keep at rest. If the patient stops breathing, give the patient artificial respiration. Seek medical attention immediately.

Ingestion: Obtain medical attention urgently. Do NOT induce vomiting. Beware of aspiration if vomiting occurs.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Carbon dioxide, dry powder, foam or water fog – Do not use water jets.

Special Exposure Hazards: Not known.

Special Protective Equipment: Self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Wear suitable protective clothing, gloves and eye / face protection.

Environmental Precautions: Prevent entry into drain, 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. 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: Maintain good standards of personal hygiene. Avoid skin and eye contact. Do not eat, drink or smoke whilst using this product. Ensure adequate ventilation.

Storage: Keep containers dry and tightly closed.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Occupational Exposure Limits: Based on components.

Ethylene Glycol

Occupational exposure limit 20 ppm (Type: TWA)

Biological limit values 200 mg/g (Creatinine in urine)

Engineering Control Measures: Provide adequate ventilation.

Personal Protective Equipment: Imperious gloves (eg PVC). Safety glasses / goggles. Plastic apron. Change contaminated clothing immediately and cleanse before re-use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid
Colour	Brown
Odour	Odourless
pH (concentration)	6.0 – 7.0
Boiling Point / Range (°C)	100 °C
Flash Point (closed °C)	None
Autoflammability (°C)	Not applicable
Vapour pressure (kPa @ 20 °C)	2.3 (water)
Relative Density (@ 20 °C)	1.020 – 1.040
Water Solubility	Soluble

10. STABILITY AND REACTIVITY

Stability: Stable.
Condition: None known.
Material to avoid: Strong acids and alkalis. Strong oxidising agents.
Hazardous Decomposition Product: Oxides of carbon. Irritant fumes.

11. TOXICOLOGICAL INFORMATION

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

Ethylene Glycol

Acute toxicity : Oral [LD50 (Guinea Pig): 1414 mg/kg
Skin corrosion/irritation : (Rabbit, 4hr): Skin irritation
Serious eye damage : (Rabbit): Irritating to eyes
STOT-single exposure : Causes damage to CNS, Blood, Kidney, Liver
STOT-repeated exposure : May cause damage to blood through prolonged or repeated exposure

Sodium Lignosulphonate

Acute toxicity : Oral [LD50 (Rat): 2500 mg/kg

12. ECOLOGICAL INFORMATION

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

Ethylene Glycol

Acute hazards to the aquatic environment:
Fish : LC50 (Oncorhynchus mykiss, 96 h): 1474 mg/L
Aquatic invertebrates : EC50 (Water Flea, 48h): 1800 mg/l
Algae : EC50 (Pseudokirchneriella subcapitata, 72h): 1840 mg/l

Chronic toxicity to the aquatic environment:

Fish : NOEC (Brachydanio rerio (Zebra Fish), 21h): >100 mg/l
Aquatic invertebrates : NOEC (Daphnia magna (Water flea), 21d): 100 mg/l

Persistence and degradability : Readily biodegradable
Bio-accumulation potential : Log P_{ow} = 0.81 @ 20 °C
Mobility in soil : High mobility in soil

Sodium Lignosulphonate

Product of biodegradation : Short term degradation is unlikely, long term degradation may arise.

13. DISPOSAL CONSIDERATIONS

Disposal must be in accordance with local and state legislation, by a license contractor and at an approved facility. Container should be recycled after cleaning, or disposed of with its contents in the same manner as above.

14. TRANSPORT INFORMATION

IATA	Not classified as dangerous for transport
IMDG	Not classified as dangerous for transport
ADR	Not classified as dangerous for transport

15. REGULATORY INFORMATION

Safety Phrases: 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.
 Wear suitable gloves and eye / face protection.

Local Regulations: Occupational Safety and Health (Classification, Labelling and Safety Data Sheet of Hazardous Chemicals) Regulation 2013 (CLASS Regulations)
 Occupational Safety and Health (Use and Standard of Exposure of Chemicals Hazardous to Health) Regulation 2000
 Environmental Quality Act 1974, Environmental Quality (Scheduled Wastes) Regulation 2005

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.

Further copies of this Safety Data Sheet may be obtained from Denka Construction Solutions Malaysia Sdn Bhd, Malaysia.

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