

## SAFETY DATA SHEET

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

Product Name: **ESTOTECT E250 Part A**  
Application: Base component of two part epoxy resin based coating  
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
  - Flammable Liquids : Category 3
  - Acute Toxicity (dermal) : Category 4
  - Acute Toxicity (inhalation) : Category 4
  - Skin Corrosion / Irritation : Category 2
  - Serious Eye Damage / Eye Irritation : Category 2
  - Specific target organ systemic toxicity  
Single exposure : Category 3
  - Hazardous to aquatic environment -  
chronic hazard : Category 2

#### B. Label elements including precaution statements.

- Symbol:



- Signal word: Warning
- Hazard Risk Statement

H312 Harmful if in contact with skin  
H315 Cause skin irritation.  
H319 Causes serious eye irritation.  
H332 Harmful if inhaled  
H335 May causes respiratory irritation  
H411 Toxic to aquatic life with long lasting effects

- Precautionary Statement (Prevention)
  - P233 Keep container tightly closed
  - P261 Avoid breathing dust/fume/gas/mist/vapours/spray
  - P264 Wash hand thoroughly after handling
  - P270 Do not eat, drink, or smoke when using this product.
  - P271 Use only outdoors or in a well ventilated area
  - P273 Avoid release to environment
  - P280 Wear protective gloves, clothing, eye and face protection from competent authority.
  - P312 Call a POISON CENTRE or doctor/physician if you feel unwell.
  - P322 Specific measures: Refer to First aid instruction.
  - P363 Wash contaminated clothing before reuse.
  - P391 Collect Spillage
  - P302 + P352 If on skin: Wash with plenty of soap and water
  - P304 + P340 If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing
  - P301 + P312 + P330 If swallowed: Rinse mouth. Call a POISON CENTRE or doctor / physician.
  - P332 + P313 + P362 If skin irritation occurs: Take off contaminated clothing and wash before reuse. Get medical advice / attention.
  - P305 + P351 + P338 If in eyes: remove contact lenses, if present and easy to do, rinse cautiously with water for several minutes.
  - P337 + P313 If eye irritation persists: Get medical advice / attention
  - P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
  - P405 Store lock up
  - P501 Dispose of content / container in accordance to local / national regulation.

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### 3. COMPOSITION / INFORMATION ON INGREDIENTS

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Ingredients	CAS Number	%
Bisphenol A Diglycidyl Ether Resin	25068-38-6	50 – 80
Trizinc bis (orthophosphate)	7779-90-0	5 – 10
Filler	14807-96-6	10 – 20
Phenylcarbinol	100-51-6	0 – 5

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### 4. FIRST AID MEASURES

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Eyes:	Flush eyes with large amount of water for 10 minutes or until irritation subsides. If irritation persists, get medical attention.
Skin:	Remove contaminated clothing, immediately flush with large amounts of water and use soap, if available. Get medical attention, if symptom or pain persists.
Inhalation:	Remove victim to fresh air. Administer artificial respiration if breathing stopped. Keep at rest, seek prompt medical attention.
Ingestion:	If swallowed, do not induce vomiting. Keep at rest. Seek prompt medical attention

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## 5. FIRE FIGHTING MEASURES

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Fire Extinguishing Media	: Foam, Carbon Dioxide, Dry Chemical Powder. Do not use water except for cooling sealed containers.
Unsuitable	: Water jet
Special Hazard	: May explode when heated or exposed to flames or sparks. : Combustion may produce hazardous decomposition products.
Special Protective Equipment	: Fireman must wear self-contained breathing apparatus

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## 6. ACCIDENTAL RELEASE MEASURES

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Personal Precautions	: Eliminate sources of ignition. : Ensure adequate ventilation or use respiratory protection. : Prevent skin and eye contact.
Environmental Precautions	: Prevent entry to drains, sewer or water courses.
Cleaning	: Contain spillage with sand, earth or approved absorbent. : Place in suitable container, using spark proof equipment and dispose in accordance with local regulations.

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## 7. HANDLING AND STORAGE

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Handling	: Ensure storage vessels and transfer equipment are earthed. Naked flames and other sources of ignition must not be present. Handle in well ventilated areas.
Storage	: Suitable materials for storage are mild steel, stainless steel and aluminium containers. Plastic and rubbers are not recommended, although some polyolefin can be used for small quantities. Drums should be stored at ambient temperature.

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## 8. EXPOSURE CONTROL / PERSONAL PROTECTION

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Eye Protection	: Wear goggles or safety glasses with side protection.
Respiratory Protection	: Normal working conditions should have adequate ventilation and vapour extraction. If excess vapour, use suitable fresh air respiratory equipment.
Hand Protection	: Wear PVC, nitrile or polyurethane gloves.
Skin Protection	: Wear suitable protective clothing. Remove contaminated clothing.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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Physical State	Liquid
Colour	Various
Odour	Slight
Boiling Range (°C)	Not Available
Flash Point (closed °C)	>125
Specific Gravity	1.60 ± 0.1
% Volatiles (By Wt.)	< 1.0
Water Solubility	Not soluble

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## 10. STABILITY AND REACTIVITY

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Condition to avoid	Exposure to high temperature or flames.
Material to avoid	Strong oxidising agents.
Hazardous decomposition	Burning will produce dense, acid smoke containing carbon dioxide, carbon monoxide and other noxious fumes.
Chemical stability	The product is stable.

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## 11. TOXICOLOGICAL INFORMATION

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Inhalation	: Exposure to organic solvent vapours may result in adverse health effects such as irritation of the mucous membrane and the respiratory system and adverse effects on the renal and central nervous systems. Symptoms include headache, dizziness, fatigue, muscular weakness, drowsiness, and in extreme cases loss of consciousness.
Skin Contact	: Repeated or prolonged contact with the product may lead to removal of natural fats from the skin resulting in non-allergic contact dermatitis and absorption through the skin.
Eye Contact	: Splashes in the eye may cause irritation and reversible eye damages
Ingestion	: Ingestion may result in the following effects: sore throat, abdominal pain, drowsiness, nausea, vomiting, and diarrhoea. Other effects may be as described for exposure to vapours.

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## 12. ECOLOGICAL INFORMATION

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Mobility	: Viscous Liquid
Biodegradability	: Resin solid not readily biodegradable
Bioaccumulation	: Not Available
Aquatic Toxicity	: Resin solids have low order of toxicity.

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## 13. DISPOSAL CONSIDERATIONS

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Liquid surplus or waste should be appropriately labelled. Disposal must be in accordance with current national and local regulations. Appropriate disposal is by incineration. Solidified wastes may be land filled, but authorization from appropriate sources should be sought. Empty drums should be sent for reconditioning or scrap by a recognised drum reconditioner. Empty containers may pose a fire and explosion hazard.

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## 14. TRANSPORT INFORMATION

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Shipping name:	Environmentally hazardous substances, liquid, n.o.s. (epoxy resin (MW ≤ 700))
UN No	3082
ICAO/IATA Class	3.3
ICAO/IATA Packing Group	III
IMDG Class	3.3
IMDG Packing Group	III

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## 15. REGULATORY INFORMATION

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Follow the local regulations

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## 16. OTHER INFORMATION

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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>Estotect E250 – Part A (Base)</b>
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