

SAFETY DATA SHEET

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

Product Name: **ESTOTECT EN600 Part A (Base)**
Application: Base component of two part epoxy coating
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

- Health Hazard
Skin Corrosion / Irritation: Category 2
Serious Eye Damage / Eye Irritation: Category 2
Skin sensitization: Category 1
Hazardous to aquatic environment – Chronic Hazard: Category 2

B. Label elements including precaution statements.

- Symbol:



- Signal word: Warning
- Hazard Risk Statement
H315 Cause skin irritation.
H319 Causes serious eye irritation.
H317 May cause allergic skin reaction
H411 Toxic to aquatic life with long lasting effects
- Precautionary Statement (Prevention)
P260 Do not breathe dust/fume/gas/mist/vapour spray
P261 Avoid breathing dust/fume/gas/mist/vapour spray
P264 Wash hand thoroughly after handling.
P270 Do not eat, drink, or smoke when using this product.
P272 Contaminated work clothing shall not be allowed out of the workplace
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 u 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 t rest in a position comfortable for breathing.
P333 + P313 If Skin Irritation or rash occurs: Get Medical advice/attention
P301 + P312 + P330 if swallowed: Rinse mouth. Call a Poison Centre or doctor/physician

P301 + P330 + P331	if swallowed, rinse mouth do not induce vomiting
P303 + P361 + P353	If on skin (or hair): remove/ take off immediately all contaminated clothing, Rinse skin with water/shower
P305 + P351 +338	if in eyes: remove contact lenses, if present and easy to do, rinse cautiously with water for several times
P337 + P313	If eye irritations persists: get the medical advice / attention.
P405	store lock up
P501	Dispose of content/container in accordance to local/national regulations

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients	Cas No	Percentage, %
Bisphenol A Diglycidyl Ether Resin	25068-38-6	60 – 70
Phenylcarbinol	100-51-6	20 – 30
Formaldehyde Polymer	25155-81-1	10 – 15

4. FIRST AID MEASURES

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

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media:	Foam, Carbon dioxide, dry chemical powder. In case of larger fires, water spray should be used
Unsuitable	Water jet
Fire fighting Instructions:	If a leak or spill has not ignited used spray to disperse the vapours and to protect worker attempting to stop a leak. Keep adjacent container cool by spraying with water. Extinguish with foam or dry chemical & try to cover spill with foam. For major fire contact local fire authority
Special Protective Equipment:	Firemen must wear 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:	Contain and collect spillages with non-combustible absorbent material e.g sand, earth vermiculite, diatoriacous earth and place in a suitable container for disposal.

7. HANDLING AND STORAGE

Handling:	Ensure storage vessels and transfer equipment are earthed. Naked flames and other sources of ignition must not be present. Handle in well-ventilated area
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. Drum should be stored at ambient temperature.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Occupational Exposure Limits:	None assigned.
Engineering Control Measures:	Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.
Personal Protective Equipment:	Imperious gloves (eg PVC). Safety glasses / goggles. Plastic apron. Change contaminated clothing immediately and cleans before re-use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Clear Liquid
Colour	Std
Odour	Slight
pH (concentration)	Not applicable
Boiling Point / Range (°C)	Not available
Flash Point (closed °C)	>125
Water Solubility	Low solubility in water, readily soluble in various solvent
% Volatiles (By Wt.)	<1%
Specific Gravity	1.13
Viscosity, cps	2000 - 5000

10. STABILITY AND REACTIVITY

Stability:	Stable under the recommended storage and handling conditions
Condition to avoid	Exposure to high temperature or flames
Material to avoid:	Strong oxidizing agents
Hazardous Decomposition Product	Burning will produce dense, acrid smoke containing carbon dioxide, carbon monoxide and noxious fumes

11. TOXICOLOGICAL INFORMATION

Eye contact	Irritating
Skin contact	Frequent or prolonged contact may irritate and cause dermatitis. May be absorbed with possible systematic effects
By inhalation	High vapour concentration are irritating to eyes and respiratory tract, may cause headaches, dizziness, nausea, vertigo and unconsciousness and may have over central nervous effects.
Ingestion	Small amounts of liquids aspirated or pulmonary edema. Low toxicity.

12. ECOLOGICAL INFORMATION

There is no data available on the product itself. The product should not be allowed to enter drains or water courses or be deposited where it can affect ground or surface water. The Air Pollutions Control requirements of regulations made under the Environmental Protection Act may apply to use of this product.

Mobility	Very low viscous liquid
Persistence & Degradability	Resin solids not readily biodegradable
Bio-accumulated Potential	Not Available
Ecotoxicity	Not Available

13. DISPOSAL CONSIDERATIONS

Liquid surplus or wastes should be appropriate 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 recognized drum reconditioner. Empty containers may pose a fire and explosion hazard.

14. TRANSPORT INFORMATION

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

15. REGULATORY INFORMATION

In accordance to Malaysian Occupational Safety and Health:

Risk Phrases

R 22	Harmful if swallowed
R 38	Irritating to eyes

Safety Phrases

S 25	Avoid contact with eyes
S 26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
S 46	If swallowed seek medical advice immediately

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 user's own assessment of workplace risk, as required by other health and safety legislation.

SDS : Estotect E600 Part A (Base)
Date Issued : 08/11/2024
Revision : 04