

SAFETY DATA SHEET

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

Product Name: **Estobond PCA - Base**
 Application: Base component of Thixotropic Epoxy Segmental Bridge Adhesive
 Company: **Denka Construction Solutions Malaysia Sdn Bhd**
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2: HAZARDS IDENTIFICATION

Type of product: Mixture

A. Hazard Risk Classification

- Specific target organ toxicity – single exposure: Category 2 and Category 3
 Carcinogenicity: Category 1A/1B (1)
 Skin Corrosion / Irritation: Category 2
 Serious Eye Damage / Eye Irritation: Category 2

B. Label elements including precaution statements.

- Symbol:



- Signal word: Danger
- 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.

(Response)

P312	Call a poison centre / doctor if you feel unwell
P314	Get medical advice / attention if you feel unwell
P405	Store locked up
P501	Dispose of contents / container according to local / religion / national and international regulations
P304 + P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P308 + P313	If expose or concerned: Get medical attention.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.

3: COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS No.	Content, %
Epoxy resin	25068-38-6	40-45
Crystalline silica	14808-60-7	40-45
Pyrogenic silica	112945-52-5	4-5
Diluent	68609-87-2	3-5
Pigment	13463-67-7	1-5

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,

General Advice:	Move out the dangerous area. Consults a physician. Show this safety data sheet to the doctor in attendance
Eyes:	Rinse eyes thoroughly with water for at least 15 minutes, including under lids, to remove all particles. Seek medical attention if situation persist for abrasion.
Skin:	Wash with water and soap or mild skin detergent. Seek medical attention if situation persist for rash and irritation. Obtain medical advice if skin disorders develop.
Inhalation:	Move victim to fresh clean air. 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. Seek 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:	Toxic fumes.
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 drains, 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.

7: HANDLING AND STORAGE

Handling:	Avoid skin and eye contact. Maintain good standards of personal hygiene. Do not eat, drink or smoke whilst using this product. Ensure adequate ventilation.
Storage:	Keep containers dry and tightly closed.

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:	Paste.
Colour:	Off-white.
Odour:	Mild.
pH(concentrate):	Not determined
Boiling Point/Range (°C):	Not determined
Flash Point (closed, °C):	>150
Explosive Properties (%):	Not known.
Vapour Pressure (kPa at 20°C):	Not known
Specific Gravity (kg/L):	1.60 – 1.70
Water Solubility:	Insoluble.
Fat Solubility:	Not determined.

10: STABILITY AND REACTIVITY

Possibility of hazardous reaction:	Stable. React with amines, acids, alkalis and oxidizing agents
Conditions to Avoid:	None known
Incompatible materials:	None known
Hazardous Decomposition Products:	Carbon monoxide and carbon dioxide

11: TOXICOLOGICAL INFORMATION

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

Oral LD50, rat > 5000 mg/kg.

Dermal LD50, rabbit = 20000 mg/kg

Health Effects

On Eyes:	Irritating effect
On Skin:	Irritant to skin and mucous membranes.
Sensitization:	Sensitization possible through skin contact

12: ECOLOGICAL INFORMATION

Aquatic toxicity:	Epoxy resin [EC50: 1.8 mg/kg]
Persistence and degradability	Not easily biodegradable
Bioaccumulative potential:	No further relevant information available
Mobility in soil:	No further relevant information available
Other adverse effects	No further relevant information available

13: DISPOSAL CONSIDERATIONS

Disposal must be in accordance with local and national legislation.

Unused / Used Product:	Dispose of through authorised waste contractor to a licensed site.
Contaminated Product:	As for unused product. May be reacted with hardener component to give an inert polymeric material.
Packaging:	Must be disposed of through an authorised waste contractor.

14: TRANSPORT INFORMATION

This product is NOT classified as dangerous for transport.

15: REGULATORY INFORMATION

Hazard Label Data:-

Symbol(s):	Xi
Risk Phrases:	Irritating to eyes and skin. May cause sensitization by skin contact.
Safety Phrases:	Do not breathe gas/fumes/vapor/spray (appropriate wording to be specified by the manufacturer) Avoid contact with skin Wear suitable gloves and eye/face protection Use appropriate container to avoid environmental contamination

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.

SDS: Estobond PCA – Base

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