

SAFETY DATA SHEET

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

Product Name: **ESTOSEAL E77**
 Application: Hot-poured joint sealant
 Company: **Denka Construction Solutions Malaysia Sdn Bhd**
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2. HAZARD IDENTIFICATION

A. Hazard Risk Classification

- Health Hazard
 - Eye Irritation : Category 2
 - Skin Sensitisation : Category 1

B. Label elements including precaution statements.

- Symbol:



- Signal word: Warning
- Hazard Risk Statement
 - H302 Harmful if swallowed.
 - H312 Harmful in contact with skin.
 - H317 May cause an allergic skin reaction
 - H319 Causes serious eye irritation.
 - H333 May be harmful if inhaled.
- Precautionary Statement (Prevention)
 - P201 Obtain special instruction before use.
 - P202 Do not handle until all safety precautions have been read and understood.
 - P280 Wear protective gloves/protective clothing/eye protection/face protection.
- Response
 - P391 Collect spillage
 - P308 + P313 If exposed or concerned: Get medical advice/attention
- Storage
 - P402 + P403 Store in a dry place. Ventilated place away from sources of excessive heat.
- Disposal
 - P501 Dispose of contents/container to an approved waste disposal plant.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients	Cas Number	%
Rubber	9006-04-6	20 – 30
Bitumen	64742-93-4	50 – 70
Paraffin Distillate Solvent	64742-04-7	2 – 10

4. FIRST AID MEASURES

General:	In all cases of doubt, or where symptoms persist, seek medical attention.
Eyes:	Hot product – treat as 'skin contact' below.
Skin:	Splashes of hot material should be treated immediately with cold water. DO NOT ATTEMPT TO REMOVE PRODUCT. Seek medical attention.
Inhalation:	Remove to fresh air. If symptoms are severe or persistent, seek medical attention.
Indigestion:	Ensure airway is not blocked. Drink large quantity of water. Seek medical attention.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media:	Carbon dioxide, dry powder, foam and sand/earth – Do not use water jets on the surface of molten bitumen due to hazard of violent splatter of hot bitumen.
Special Precautions:	Do not use water.
Special Protective Equipment:	Self-contained breathing apparatus and full protective clothing in case of fire.

6. ACCIDENTAL RELEASE MEASURES

Protective Measures:	Avoid contact with eyes, skin and inhalation of vapour (Refer to Section 8 – Exposure Controls/Personal Protection). Shut off leaks, if possible without personal risk. Remove all possible sources of ignition in the surrounding area. Use appropriate containment of product and firefighting.
Personal Precautions:	Wear suitable protective clothing, gloves and eye / face protection.
Environmental Precautions:	Prevent entry into drain, sewers and water courses by using sand/earth or other appropriate barriers. Attempt to disperse or direct its flow to a safe location.
Clean up Procedures:	For small spills, transfer by mechanical means to a labelled, sealable container for product recovery or safe disposal. Remove contaminated soil and appropriate absorbent material for safety disposal (Refer to Section 13 – Disposal Considerations) Shovel/scoop into a suitable clearly marked container for disposal or reclamation in accordance with local regulations.

7. HANDLING AND STORAGE

Handling: Avoid contact skin and eye contact. Avoid contact with hot bitumen to prevent thermal burns. Maintain good standards of personal hygiene. Ensure adequate ventilation.

Storage: No special precautions when stored in solid state.
Stored in cool, dry area away from heat source.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Components	Exposure Limits (OSHA PEL)	
	Long term Exposure Limit (8hr)	Unit
Rubber	0.6	mg/m ³

Exposure Limits: None assigned.

Engineering Control Measures: Observe basic occupational health and safety rules.

Respiratory Protection: Use suitable respiratory protective equipment. Must be used if vapour levels are high, especially in enclosed areas.

Skin Protection: Should wear overalls and suitable heat-resistance gloves.

Eye Protection: Should wear goggles or face shield to protect eyes from splashes of molten bitumen.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Solid
Colour	Black
Odour	Characteristic bitumen
Flash Point, °C	>200
Auto-flammability, °C	No data available
Specific gravity @ 25 °C	1.4 g/cm ³
Water solubility	Insoluble

10. STABILITY AND REACTIVITY

Stability: The product is stable under normal conditions.

Condition to Avoid: Water contamination. Sources of ignition.

Materials to Avoid: Water

Hazardous Decomposition Products: Toxic fumes may be released when burnt

11. TOXICOLOGICAL INFORMATION

Eye Contact:	Irritant
Skin Contact:	Irritant. Product is used hot. Skin contact will cause burn
Inhalation:	Irritant. Hydrogen sulphide is liberated at elevated temperature
Ingestion:	Harmful
Chronic effect:	Bitumen content may cause warts. These may become malignant over a period of time. Examine skin for warts.

12. ECOLOGICAL INFORMATION

Persistence and degradability:	No data available
Ecotoxicity:	No data available
Bioaccumulative potential:	No data available
Mobility in soil:	No data available
Other adverse effect:	None

13. DISPOSAL CONSIDERATIONS

The generation of waste should be avoided or minimized wherever possible.

Waste in small quantities should not be poured into drains, sewers or watercourse for disposal.

The material when mixed properly and cured at the proper mix ration may be safely landfilled.

Waste disposal method in accordance with all applicable local, national environmental laws and regulations.

14. TRANSPORT INFORMATION

International Regulation

UNRTDG	Not classified as dangerous for transport
IATA-DGR	Not classified as dangerous for transport
IMDG-Code	Not classified as dangerous for transport

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not applicable for product as supplied.

15. REGULATORY INFORMATION

This data sheet was prepared in accordance with Chemicals (Hazard Information and Packaging for Supply) Regulations 1994 [CHIPS II] and Directives 91/155/EEC, 93/112/EC

S25	: Avoid contact with eyes.
R27	: Remove all contaminated clothing immediately.
R28	: Wash with detergent upon contact with skin immediately.
R38	: Irritating to skin
R43	: May cause sensitization by skin contact.
R37/38/39	: Wear suitable protective clothing, gloves and eye/face protection.

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.

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