

## SAFETY DATA SHEET

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

Product Name: **ESTOTARD PRECOR**  
Application: Concrete surface retarder  
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
  - Skin Corrosion / Irritation : Category 3
  - Serious Eye Damage / Eye Irritation : Category 2B
  - Respiratory or Skin Sensitization : Category 1
  - Aspiration Hazard : Category 2
  - Acute Toxicity (Oral) : Category 5
  - Acute Toxicity (Dermal) : Category 5
  - Acute Toxicity (Inhalation) : Category 5

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

- Symbol:



- Signal word: Warning
- Hazard Risk Statement
  - H303 May be harmful if swallowed
  - H305 May be harmful if swallowed and enters airways
  - H313 May be harmful in contact with skin
  - H315 Causes skin irritation
  - H317 May cause an allergic skin reaction
  - H319 Causes serious eye irritation
  - H333 May be harmful if inhaled
- Precautionary Statement (Prevention)
  - P233 Keep container tightly closed.
  - P262 Do not get in eyes, on skin, or on clothing
  - P264 Wash thoroughly after handling
  - P273 Avoid release to the environment
  - P280 Wear protective gloves/protective clothing/eye protection/face protection.

- Response
  - P302 + P361 + P353 IF ON SKIN: Remove/take off immediately all contaminated clothing. Rinse with water/shower
  - P333 + P313 IF skin irritation or rash occurs: Get medical advice/attention.
  - P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position 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.
  - P301 + P331 + P310 IF SWALLOWED: Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.
  - P337 + P313 IF eye irritation persists: Get medical advice/attention.
  - P312 Call a POISON CENTER or doctor/physician if you feel unwell.
  - P362 Take off contaminated clothing and wash before reuse.
  
- Storage
  - P403 + P223 Keep container tightly closed.
  - P402 + P403 Store in a dry and well-ventilated place.

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### 3. COMPOSITION / INFORMATION ON INGREDIENTS

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Ingredient	CAS No	%
Water	7732-18-5	60-70
Sodium Lignosulphonate	8061-51-6	20-30
Molasses	68476-78	10-15
Formaldehyde	50-00-0	0.5-1

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.

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### 4. FIRST AID MEASURES

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Eyes: Flush eye with copious of water. If persistent irritation occurs, obtain medical attention.  
 Skin: Remove contaminated clothing. Wash affected area with water and follow by washing with soap if available. Seek medical attention in event of irritation.  
 Inhalation: Remove to fresh air. If rapid recovery does not occur, transport to nearest medical facility for additional treatment.  
 Ingestion: Obtain medical attention urgently. Do NOT induce vomiting. Beware of aspiration if vomiting occurs.

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### 5. FIRE FIGHTING MEASURES

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Suitable Extinguishing Media: Carbon dioxide, powder, foam or water fog – Do not use water jets.  
 Special Exposure Hazards: Not available.  
 Special Protective Equipment: Not available.

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## 6. ACCIDENTAL RELEASE MEASURES

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Personal Precautions:	Wear self-contained breathing apparatus and protective clothing.
Environmental Precautions:	Prevent product from entering drinking water, water ways or streams. Collect leaking and spilled liquid in sealable containers as far as possible.
Decontamination Procedures:	Remove by best available means. Dispose of as waste.

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## 7. HANDLING AND STORAGE

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Handling:	Store in cool, dry, well ventilated place and out of direct sunlight. Store away from strong oxidising agents. Keep container closed when not in use-check regularly for leaks.
Storage:	In accordance with good industrial practice, handle with care and avoid unnecessary personal contact. Wash thoroughly after handling.

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## 8. EXPOSURE CONTROL / PERSONAL PROTECTION

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Engineering Control Measures:	Facilities storing and using this product should be equipped with an eye wash facility and a safety shower.
Personal Protective Equipment:	Respiratory protection is needless in normal industrial use. Hand protection is to wear a chemical resistant gloves. Eye protection is to wear safety glasses with side shields or goggles and a face shield. Skin and body protection is to wear a chemical resistant cloths and rubber boots.
TLV / PEL:	No occupational exposure limits proposal established by OSHA (2002) ACGIH (2002) and NIOSH.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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Physical State	Liquid
Colour	Pink
Odour	Slight / faint
pH (concentration)	6.0 – 8.0
Boiling Point / Range (°C)	~100
Vapour Pressure (kPa at 20 °C)	2.3 (water)
Relative density (at 25 °C)	1.10 – 1.20
Water Solubility	Soluble

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## 10. STABILITY AND REACTIVITY

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Stability: Stable under normal condition.  
Condition to avoid: Not available.  
Material to avoid: Not available.

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## 11. TOXICOLOGICAL INFORMATION

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Information on Toxicological effects

Toxicity to animals: Acute oral toxicity (LD50): 2500 mg/kg (rat)  
Chronic effect on human: Carcinogenic effect: Not available  
Mutagenic effect: Not available  
Developmental toxicity: Not available  
Reproductive toxicity: Not available

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## 12. ECOLOGICAL INFORMATION

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Ecotoxicity: Not available  
BOD5 and COD: Not available  
Biodegradation: Short term degradation is unlikely, long term degradation may arise.

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## 13. DISPOSAL CONSIDERATIONS

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Disposal must be in accordance with local and national legislation.

Waste disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations.

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## 14. TRANSPORT INFORMATION

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ADR: Not classified as hazardous under transport regulations.  
IMDG: Not classified as hazardous under transport regulations.  
IATA: Not classified as hazardous under transport regulations.

## 15. REGULATORY INFORMATION

### Hazard Label Data

Safety Phrases: Do not breathe vapours/spray.  
Wear suitable gloves and eye/face protection.  
Use only in well ventilated areas.

Other regulation: OSHA : Hazardous by definition of Hazard Communication Standard  
(29 CFR 1910. 1200)

The above publications are available from HMSO.

## 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.

**SDS** : Estotard Precor  
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**Revision** : 03



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