

SAFETY DATA SHEET

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

Product Name: **ESTOPRIME WB134 – HARDENER**
Application: Base component of two part water based epoxy primer.
Company: **Denka Construction Solutions Sdn Bhd**
Address: No.18, Jalan Utas 15/7, Seksyen 15, 40200 Shah Alam, Selangor
Telephone: 603 – 55108810 Fax : 603 – 55100708

2: HAZARDS IDENTIFICATION

Hazard Symbol



Danger

Irritating to eyes and skin.
May cause sensitisation by skin contact.
May be harmful if swallowed.

3: COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS Number	%
Epoxy Resin	25068-38-6	>90

4: FIRST AID MEASURES

Eyes: Irrigate immediately with copious quantities of water for several minutes. Obtain medical attention urgently.
Skin: Wash thoroughly with soap and water or suitable skin cleanser as soon as possible. Obtain medical advice if skin disorders develop.
Inhalation: Remove from exposure.
Ingestion: Obtain medical attention. Do NOT induce vomiting. Beware of aspiration if vomiting occurs.

5: FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Carbon dioxide, powder, foam or water fog - Do not use water jets.
Special Exposure Hazards: Toxic fumes. For further information see Section 10.
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:	Maintain good standards of personal hygiene. Avoid skin and eye contact. 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. Change contaminated clothing and clean before re-use.

9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid.
Colour:	Pigmented.
Odour:	Amine.
pH(working dilution):	~8.0
Boiling Point/Range (°C):	>100 Melting
Point/Range (°C):	Not applicable
Flash Point (closed, °C):	> 110
Autoflammability (°C):	Not applicable.
Explosive Properties (%):	Not applicable.
Oxidising Properties:	Not determined.
Vapour Pressure (kPa at 20°C):	1.0
Relative Density (at 20°C):	1.25
Water Solubility:	Partially soluble

10: STABILITY AND REACTIVITY

Stability:	Stable: reacts with compounds containing amino, hydroxyl or carboxyl groups to give stable, cross linked materials.
Conditions to Avoid:	Temperature below 5°C.
Materials to Avoid:	Strong acids. Strong alkalis. Strong oxidising agents
Hazardous Decomposition Products:	Thermal decomposition:- Oxides of carbon. Nitrogen compounds, in some fire circumstances, hydrogen cyanide.

11: TOXICOLOGICAL INFORMATION

The following toxicological assessment is based on a knowledge of the toxicity of the product's components.
Expected oral LD50, rat > 2g/kg.
Classified as a skin sensitisier.

Health Effects

On Eyes:	Irritating and may injure eye tissue if not removed promptly.
On Skin:	Irritation. May cause sensitisation.
By Inhalation:	May cause respiratory irritation.
By Ingestion:	May cause irritation of mouth, throat and digestive tract.
Chronic:	Repeated and prolonged skin contact may lead to skin disorders.

12: ECOLOGICAL INFORMATION

Environmental Assessment:	When used and disposed of as intended, no adverse environmental effects are foreseen.
Mobility:	Mobile liquid. Partially soluble in water.
Persistence and Degradability:	Expected to be not readily biodegradable.
Bioaccumulative Potential:	Not expected to be bioaccumulative.
Ecotoxicity:	Not determined.

13: DISPOSAL CONSIDERATIONS

Disposal must be in accordance with local and national legislation.

Unused Product:	Dispose of through an authorised waste contractor to a licensed site.
Used/Contaminated Product:	As for Unused product.
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:-Named

Ingredients:	polyaminoamide
Symbol(s):	Xi
Risk Phrases:	Irritating to eyes and skin. May cause sensitisation by skin contact.
Safety Phrases:	Wear suitable gloves and eye/face protection. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
EC Directives:	Dangerous Substances Directive, 67/548/EEC and adaptations. Dangerous Preparations Directive, 88/379/EEC. Safety Data Sheets Directive, 91/155/EEC.
Statutory Instruments:	Chemicals (Hazard Information and Packaging for Supply)(Amendment) Regs. 1996 (SI 1092). Control of Substances Hazardous to Health Regs. 1994(SI3246).

Codes of Practice:	Health & Safety at Work, etc. Act 1974.
Guidance Notes:	Environmental Protection Act 1990.
Occupational skin diseases:	Waste Management. The Duty of Care.
	Health and safety precautions (EH 26).
	Storage of packaged dangerous substances [HS(G)71].
	The above publications are available from HMSO

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 other than for the stated application or applications without seeking advice from Denka Construction Solutions Sdn Bhd.

If this product has been purchased for supply 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 the 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 in 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.

Further copies of this Safety Data Sheet may be obtained from Denka Construction Solutions Sdn Bhd.

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Denka Construction Solutions Malaysia Sdn Bhd
(591858-U)
No. 18, Jalan Utas 15/7, Seksyen 15,
40200 Shah Alam, Selangor Darul Ehsan, Malaysia
Tel: +603 5510 8810 Fax: +603 5518 8202
www.denka-cs.com

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