

MATERIAL SAFETY DATA SHEET

SECTION 1. PRODUCT IDENTIFICATION

PT. Estop Indonesia
Jl. TB Simatupang No. 1A, Gedung Puskop Jayakarta
Kampung Rambutan, Jakarta 13830
Telp. +6221 87799 572 Fax +6221 87799 582

Product Name : **Estobond EC**
Designation : **Concrete Epoxy Bonding Agent & Sealant**
Hazard Rating

Acute health	: 1	Least - 0	Slight - 1
Fire	: 1	Moderate - 2	
Reactivity	: 0	High - 3	Extreme - 4

SECTION 2. INGREDIENT

NO.	CAS NO.	CHEMICAL NAME :
1.	025085-99-8	EPHICHLOROHYDRIN AND BISPHENOL A
2.	74-89-5	ALIPHATIC AMINE

SECTION 3. HEALTH INFORMATION POTENTIAL HEALTH EFFECTS

Skin(contact) : Direct contact may cause mild irritation.

Inhalation :: Direct contact may cause mild irritation.

Ingestion : Vapor, especially upon heating may cause irritation of the respiratory tract.

Signs and Symptoms : Not a probable route of entry into the body
Aggravated Medical Conditions : Repeated and/or prolonged contact with the skin may cause allergic reaction/sensitization.

Other Health Effects : Preexisting eye, skin and respiratory disorders may be aggravated by exposure to this product.

Preexisting skin or respiratory tract allergies may increase the chance of developing increased allergy symptoms from exposure to this product.

SECTION 4. OCCUPATIONAL EXPOSURE LIMITS

NO PEL/TWA PEL/CEILING TLV/TWA TLV/STEL OTHER : NONE
TLV = Threshold Limit Value
PEL = Permissible Exposure Limit
NE = Not Established

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SECTION 5. EMERGENCY AND FIRST AID

Skin Contact : Immediately remove contaminated clothing or shoes, wipe excess from skin and flush with plenty of water for at least 15 minutes. Use soap if readily available, or follow by thoroughly washing with soap and water do not reuse clothing until thoroughly decontaminated

Eye Contact : Flush eyes with plenty of water for at least 15 minutes while holding eyelids open. Call a physician if signs of irritation appear

Inhalation : Remove victim to fresh air and provide oxygen if breathing is difficult. Get medical attention.

Ingestion: Do not induce vomiting give one glass of water unless victim is drowsy, convulsing, or unconscious.

Seek medical attention immediately

SECTION 6. SUPPLEMENTAL HEALTH INFORMATION

Animal experiments have shown disturbed blood formation. The degree of toxicity of uncured epoxy resins varies and is partly dependent on the extent of unreacted curing agents. When heated to decomposition it emits acrid smoke and fumes.

SECTION 7. PHYSICAL DATA

Boiling Point	: ND
Vapor Pressure(mmHg)	: ND
Vapor Density(air=1)	: ND
Solubility in Water	: ND
Melting Point	: ND
Specific Gravity(H ₂ O=1)	: 1.60 ± 0.05 (Mixed applied)
Evaporation Rate (N-BUTYL ACETATE=1)	: ND
Appearance and Odor	: Grey, smell of epoxy

SECTION 8. FIRE AND EXPLOSION DATA

Flash Point	: N/A
Flammable Limit (% volume, in air)	: N/A
Extinguishing Media	: Use water fog, foam, carbon dioxide or dry chemical
Special Precautions	: Toxic gases may be released during fire. Use positive pressure, self-contained breathing apparatus and full protective clothing.
Unusual Fire and Explosion Hazard	: Isolate from heat, electrical equipment, sparks and opened flame. Wear self-contained breathing apparatus

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SECTION 9. STABILITY AND REACTIVITY

Chemical Stability	: Stable
Conditions and Materials to avoid	: Normally stable and is not reactive with water
Hazardous Decomposition Products	: Not available

SECTION 10. EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory Protection	: Do not breathe vapor/mists. If exposure may or does exceed occupational exposure (SEC 2) use a NIOSH approved respirator to prevent overexposure. In accord with 29 CFR 1910.124 use either a full face atmosphere-supplying respirator or air-purifying respirator for organic vapors
Protective Clothing	: Do not get in eyes. Wear chemical goggles if there is potential contact with eyes. Do not get on clothing. Wear chemical-resistant protective clothing such as gloves, outer clothing or apron, overshoes and a faceshield suitable to potential exposure
Engineering Controls	: For the product at ambient temperatures, use adequate ventilation. For the heated product, use exhaust ventilation to remove vapor.
Additional Protective Measures	: For the product at ambient temperatures, use adequate ventilation. For the heated product, use exhaust ventilation to remove vapor. Eye wash fountains and safety showers be available for emergency use.

SECTION 11. ENVIRONMENTAL PROTECTION

Spill or Leak Procedures : Ventilate area. Avoid breathing vapor. Wear appropriate personal protective equipment, including appropriate respiratory protection. Contain spill if possible. Wipe up or absorb on suitable material and shovel up. Prevent entry into sewers and waterways. Avoid contact with skin, eyes or clothing.

SECTION 12. HANDLING AND STORAGE

Store in a cool, dry place with adequate ventilation. Keep away from open flames and high temperatures. Do not pressurize containers to empty them.

SECTION 13. TRANSPORTATION REQUIREMENTS

DOT HAZARD CLASSIFICATION
DOT PROPER SHIPPING NAME
OTHER REQUIREMENTS
DOT-DEPARTMENT OF TRANSPORTATION HAZARDOUS MATERIALS REGULATIONS

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SECTION 14. ECOLOGICAL INFORMATION

There is no data available for this product.

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