

SAFETY DATA SHEET

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

Product Name: **ESTOBOND E80 PART A**
 Application: Product for construction chemicals
 Use advised against: No additional information available
 Company: **PT. HISSAN TRADING INDONESIA**
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2. HAZARDS IDENTIFICATION

A. Classification of the substance and mixture:

- Skin corrosion/irritation: Cat. 2
- Serious eye damage/eye irritation: Cat. 2A
- Skin sensitization: Cat. 1
- Hazardous to the aquatic environment - acute: Cat. 2
- Hazardous to the aquatic environment - chronic: Cat. 2

B. Label elements and precautionary statement:

- Symbol



- Signal Word: Warning
- Hazard Statement:
 - H315 Causes skin irritation.
 - H317 May cause an allergic skin reaction.
 - H319 Causes serious eye irritation.
 - H401 Toxic to aquatic life.
 - H411 Toxic to aquatic life with long lasting effects.
- Precautionary Statements:
 - P260 Do not breathe dust/fume/gas/mist/vapours/spray.
 - P272 Contaminated work clothing should not be allowed out of the workplace.
 - P273 Avoid release to the environment.
 - P280 Wear protective gloves and eye/face protection.
 - P352 Wash with plenty of water and soap thoroughly after handling.
 - P305 + P351 + P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a POISON CENTER or doctor/physician.
 - P303 + P352 + P362 If on skin (or hair): Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention. Collect spillage.
 - P501 Dispose of contents/container to hazardous or special waste collection point.

Other hazards which do not result in classification:

If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical nature:

Chemical name	Trade names and Synonyms	CAS No.	Contents (%)
4,4'-Isopropylidenediphenol, oligomeric reaction Products with 1-chloro-2,3-epoxypropane mixture	DIGLYCIDYL ETHER OF BISPHENOL A mixture	25068-38-6	70-90
Benzyl Alcohol	Phenyl Carbinol	100-51-6	1.5-2
Carbon Black	Iron Oxide Black	1333-86-4	0.1-0.2
Titanium Dioxide		16463-67-7	1.5-2
Trade Secret		-	5-7

4. FIRST AID MEASURES

General advice:	First aid personnel should pay attention to their own safety. Immediately remove contaminated clothing.
Eyes:	Wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.
Skin:	After contact with skin, wash immediately with plenty of water and soap. Under no circumstances should organic solvent be used. If irritation develops, seek medical attention.
Inhalation:	If difficulties occur after vapour/aerosol has been inhaled, remove to fresh air and seek medical attention.
Ingestion:	Rinse mouth immediately and then drink plenty of water, seek medical attention. Do not induce vomiting.
Note to physician:	Symptoms: Eye irritation, skin irritation, allergic contact dermatitis Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

5. FIRE FIGHTING MEASURES

Suitable extinguishing media:	Foam, water spray, dry powder, carbon dioxide
Unsuitable extinguishing media for safety reasons:	Water jet
Specific hazards:	Carbon dioxide, carbon monoxide, harmful vapors, nitrogen oxides, fumes/smoke, carbon black
Special protective equipment:	Wear a self-contained breathing apparatus.
Further information:	
The degree of risk is governed by the burning substance and the fire conditions. If exposed to fire, keep containers cool by spraying with water. Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems. Contaminated extinguishing water must be disposed of in accordance with official regulations	

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedure:

Do not breathe vapour/aerosol/spray mists. Wear eye/face protection. If exposed to high vapour concentration, leave area immediately. Use personal protective clothing. Handle in accordance with good building materials hygiene and safety practice.

Environmental Precautions:

Contain contaminated water/firefighting water. Do not discharge into drains/surface waters/groundwater.

Methods and Material for Containment and Clean Up:

For small amounts: Pick up with inert absorbent material (e.g. sand, earth etc.). Dispose of contaminated material as prescribed.

For large amounts: Pump off product.

7. HANDLING AND STORAGE

Handling Avoid aerosol formation. Avoid inhalation of mists/vapours. Avoid skin contact.

No special measures necessary provided product is used correctly.

Storage Suitable materials for containers: High density polyethylene (HDPE), tinned carbon steel (Tinplate), Carbon steel (Iron)

Further information on storage conditions:

Keep only in the original container in a cool, dry, well-ventilated place away from ignition sources, heat or flame. Protect from direct sunlight.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Components with occupational exposure limits Barium sulfate, 7727-43-7;

TWA value 5 mg/m³ (ACGIHTLV), Inhalable fraction

The value is for particulate matter containing no asbestos and <1% crystalline silica.

TWA value 10 mg/m³ (AU NOEL), Inhalable dust

This value is for inhalable dust containing no asbestos and < 1% crystalline silica.

TWA value 10 mg/m³ (OEL (AU)), Inhalable dust

White mineral oil (petroleum), 8042-47-5;

TWA value 5 mg/m³ (OEL (AU)), Mist

TWA value 5 mg/m³ (ACGIHTLV), Inhalable fraction

TWA value 5 mg/m³ (AU NOEL)

Personal protective equipment Respiratory protection:

Wear respiratory protection if ventilation is inadequate. Combination filter for gases/vapours of organic, inorganic, acid inorganic and alkaline compounds (e.g. EN 14387 Type ABEK).

Hand protection:

Chemical resistant protective gloves (EN 374)

Manufacturer's directions for use should be observed because of great diversity of types.

Supplementary note:

The specifications are based on tests, literature data and information of glove manufacturers or are derived from similar substances by analogy. Due to many conditions (e.g., temperature) it must be considered, that the practical usage of a chemical-protective glove in practice may be much shorter than the permeation time determined through testing.

Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374):

butyl rubber (butyl) - 0.7 mm coating thickness

fluoro elastomer (FKM) - 0.7 mm coating thickness

Suitable materials for short-term contact (recommended: At least protective index 2, corresponding > 30 minutes of permeation time according to EN 374):

polyvinylchloride (PVC) - 0.7 mm coating thickness

chloroprene rubber (CR) - 0.5 mm coating thickness
 nitrile rubber (NBR) - 0.4 mm coating thickness

Eye protection:
 Safety glasses with side-shields (frame goggles) (e.g., EN 166)

Body protection:
 Body protection must be chosen depending on activity and possible exposure, e.g., apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).

General safety and hygiene measures:
 Do not inhale gases/vapours/aerosols. Avoid contact with the skin, eyes and clothing. Avoid exposure - obtain special instructions before use. Handle in accordance with good building materials hygiene and safety practice. Wearing of closed work clothing is recommended. When using, do not eat, drink or smoke. Hands and/or face should be washed before breaks and at the end of the shift. At the end of the shift the skin should be cleaned and skin-care agents applied. Gloves must be inspected regularly and prior to each use. Replace if necessary (e.g. pinhole leaks).

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Highly viscous
Colour:	Grey creamish
Odour:	Characteristic
Odour treshold:	No applicable information available
pH:	No data available
Melting point:	No data available
Freezing point:	No data available
Boiling point:	> 100 °C
Flash point:	> 100 °C
Flammability (solid/gas):	not highly flammable
Lower explosion limit:	not applicable
Upper explosion limit:	not applicable
Thermal decomposition:	No decomposition if stored and handled as prescribed/indicated.
Self heating ability:	It is not a substance capable of spontaneous heating.
Explosion hazard:	not explosive
Fire promoting properties:	not fire-propagating
Vapour pressure:	not applicable
Density:	1.47 - 1.53 g/cm ³ (20 °C)
Bulk density:	not applicable
Miscibility with water:	immiscible
Hygroscopy:	Non-hygroscopic
Viscosity, dynamic:	1,000 - 15,000 mPa.s
Other Information:	If necessary, information on other physical and chemical parameters is indicated in this section.

10. STABILITY AND REACTIVITY

Conditions to avoid:	See MSDS section 7 - Handling and storage.
Thermal decomposition:	No decomposition if stored and handled as prescribed/indicated.
Substances to avoid:	Strong acids, strong bases, strong oxidizing agents, strong reducing agents
Corrosion to metals:	No corrosive effect on metal.
Hazardous reactions:	The product is stable if stored and handled as prescribed/indicated. No hazardous decomposition products if stored and handled as prescribed/indicated.

11. TOXICOLOGICAL INFORMATION

Acute toxicity	Assessment of acute toxicity: Virtually nontoxic after a single ingestion. Based on available Data, the classification criteria are not met.
Irritation	Assessment of irritating effects: Eye contact causes irritation. Skin contact causes irritation.
Respiratory/Skin sensitization	Assessment of sensitization: Sensitization after skin contact possible.
Germ cell mutagenicity	Assessment of mutagenicity: The chemical structure does not suggest a specific alert for such an effect. Based on available Data, the classification criteria are not met.
Carcinogenicity	Assessment of carcinogenicity: Based on the ingredients there is no suspicion of a carcinogenic effect in humans. Based on available Data, the classification criteria are not met.
Reproductive toxicity	Assessment of reproduction toxicity: The chemical structure does not suggest a specific alert for such an effect. Based on available Data, the classification criteria are not met.
Developmental toxicity	Assessment of teratogenicity: The chemical structure does not suggest a specific alert for such an effect. Based on available Data, the classification criteria are not met.
Specific target organ toxicity (single exposure):	Remarks: Based on available Data, the classification criteria are not met. The product has not been tested. The statement has been derived from the properties of the individual components.
Repeated dose toxicity and Specific target organ toxicity (repeated exposure)	Assessment of repeated dose toxicity: No reliable data was available concerning repeated dose toxicity. Based on available Data, the classification criteria are not met.
Aspiration hazard	No aspiration hazard expected.
Other relevant toxicity information	Based on our experience and the information available, no adverse health effects are expected if handled as recommended with suitable precautions for designated uses. The product has not been tested. The statements on toxicology have been derived from the properties of the individual components.

12. ECOLOGICAL INFORMATION

Ecotoxicity	Assessment of aquatic toxicity: Acutely toxic for aquatic organisms. May cause long-term adverse effects in the aquatic environment. The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.
Mobility	Assessment transport between environmental compartments: The substance will not evaporate into the atmosphere from the water surface. Following exposure to soil, adsorption to solid soil particles is probable, therefore contamination of groundwater is not expected.
Persistence and degradability	Assessment biodegradation and elimination (H ₂ O): The product is virtually insoluble in water and can thus be separated from water mechanically in suitable effluent treatment plants.

Bioaccumulation potential

Bioaccumulation potential: Because of the product's consistency and low water solubility, bioavailability is improbable.

Additional information

Other ecotoxicological advice: Do not discharge product into the environment without control. The product has not been tested. The statements on ecotoxicology have been derived from the properties of the individual components.

13. DISPOSAL CONSIDERATIONS

Observe national and local legal requirements.

Residues should be disposed of in the same manner as the substance/product

Contaminated packaging:

Contaminated packaging should be emptied as far as possible; then it can be passed on for recycling after being thoroughly cleaned.

14. TRANSPORT INFORMATION

Domestic transport: Hazard class: 9
 Packing group: III
 ID Number: UN 3082
 Hazard Label: 9, EHSM
 Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains EPOXY RESIN)

Further information: Hazchem Code:3Z IERG Number:47

Air transport

IATA/ICAO Hazard Class: 9
 Packing group: III
 ID Number: UN 3082
 Hazard label: 9, EHSM
 Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains EPOXY RESIN)

Sea transport

IMDG Hazard class: 9
 Packing group: III
 ID Number: UN 3082
 Hazard label: 9, EHSM
 Marine pollutant: YES
 Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains EPOXY RESIN)

Further information

Environmentally Hazardous Substances meeting the description of UN 3077 or UN 3082 are not subjected to the Australian Dangerous Goods Code when transported by road or rail in packagings not exceeding 500 kg(L) or IBCs.

15. REGULATORY INFORMATION

Other regulations

If other regulatory information applies that is not already provided elsewhere in this safety data sheet, then it is described in this subsection.

Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP): Schedule 5

Registration status:

AICS, AU blocked / not listed
 Import under LVE

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 PT. Hissan Trading Indonesia.

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 user's own assessment of workplace risk, as required by other health and safety legislation.

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