

SAFETY DATA SHEET

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

Product Name : **ESTOWRAP RESIN UW (BASE)**
 Application : Carbon Epoxy Resin Base for Underwater
 Company : **PT. HISSAN TRADING INDONESIA**
 Address : 18 Office Park Lt. 15 Suite A, Jl. TB Simatupang Kav. 18, Jakarta Selatan, 12520
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2. HAZARDS IDENTIFICATION

GHS Classification

Skin irritation : Category 2
 Eye irritation : Category 2A
 Skin sensitization : Category 1
 Short-term (acute) aquatic hazard : Category 2
 Long-term (chronic) aquatic hazard : Category 2

GHS label elements

Hazard pictogram



Signal Word : Warning

Hazard Statements:

H319 Causes serious eye irritation.
 H315 Causes skin irritation.
 H317 May cause an allergic skin reaction.
 H401 Toxic to aquatic life.
 H411 Toxic to aquatic life with long lasting effects.

Precautionary Statements:

Prevention:

P273 Avoid release to the environment.
 P260 Do not breathe dusts or mists.
 P272 Contaminated work clothing should not be allowed out of the workplace.
 P264 Wash face, hands and any exposed skin thoroughly after handling.
 P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P311 Call a POISON CENTER or doctor/ physician.
 P302 + P352 IF ON SKIN: Wash with plenty of water.
 P362 + P364 Take off contaminated clothing and wash it before reuse.
 P332 + P313 If skin irritation occurs: Get medical advice/ attention.
 P391 Collect spillage.

Disposal:

P501 Dispose of contents/container to appropriate hazardous 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

Ingredients	CAS No.	Content, %
Diglycidyl Ether of Bisphenol A	25068-38-6	80 – 85
Silica, Amorphous, Fumed	2461-15-6	5 – 10
Crystalline Free	112945-52-5	5 – 10

4. FIRST AID MEASURES

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.

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.

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.

5. FIRE FIGHTING MEASURES

Flash Point and Method : 96.7°C

Explosion Limit : Lower : N/A
Upper : N/A

Auto Flammability : N/A

Firing Class : IV (OSHA)

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 : Isolate from heat, electrical equipment, sparks and opened flame. Wear 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 : Contain and remove by best available means. Gather into containers And dispose off 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	: Store in a cool, dry place with adequate ventilation. Keep away from open flames and high temperatures. Store out of direct sunlight.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Respiratory Protection	: Do not breathe vapor/ mists. If exposure may or does exceed occupational exposure (SEC2) use a NIOSH approved respirator to prevent overexposure. In accordance 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 face-shield 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	: Eye wash fountains and safety showers be available for emergency use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Shape	: White Liquid. Typical smell.
pH value	: Not available
Melting point (°C)	: Not available
Boiling point (°C)	: Not available
Specific Gravity	: 1.14 – 1.20
Solubility (In water)	: Insoluble
Viscosity (25°C)	: 20.000 – 50.000 cps (Brookfield Viscometer)

10. STABILITY AND REACTIVITY

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

11. TOXICOLOGICAL INFORMATION

Potential Health Effects	: Direct contact may cause mild irritation.
Skin	: Direct contact may cause mild irritation.
Inhalation	: Vapor, especially upon heating may cause irritation of the respiratory tract.
Ingestion	: Not a probable route of entry into the body.
Signs and Symptoms	: Repeated and/ or prolonged contact with the skin may cause allergic reaction/ sensitization.
Aggravated Medical Conditions	: 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.

Other Health Effects : Not available.

12. ECOLOGICAL INFORMATION

Ecotoxicity : Ecotoxic for fish/daphnia/algae

13. DISPOSAL CONSIDERATIONS

Disposal treatment : Dispose of through an authorized contractor to a licensed site. May be reacted with hardener component to give an inert polymeric material.

14. TRANSPORT INFORMATION

Code of Dangerous code : Non-dangerous goods
UN Code : Not available
Packaging mark : Not available
Cautions during transportation : This product is not classified as dangerous materials. So it can be transported as common materials.

15. REGULATORY INFORMATION

Hazard Label Data: Named Ingredients: Bisphenol A Epoxy Resin.
Symbol(s) Xi
Risk Phrases: Irritating to eyes and skin.
May cause sensitisation by skin contact.
Safety Phrases: Avoid contact with skin and eyes.
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Wear suitable protective clothing, gloves and eye/face protection. Contains epoxy constituents. See information supplied by the manufacturer.
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) Regs. 1993 (SI 1746).
Control of Substances Hazardous to Health Regs. 1988 (SI 1657). Health & Safety at Work, etc Act 1974. Environmental Protection (Duty of Care) Regs 1991 (SI 2839).
Codes of Practice: Waste Management. The Duty of Care.
Guidance Notes: Occupational skin diseases: health and safety precautions (EH 26).

16. OTHER INFORMATION

This information is based on our present state of knowledge. It should not therefore be constructed as guaranteeing specific properties of this product or their suitability for a particular application. 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 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. Further copies of this Safety Data Sheet may be obtained from PT. Hissan Trading Indonesia.

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