

# SAFETY DATA SHEET

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

Product Name : **ESTOWRAP series ( Estowrap 300, 450, 600 )**  
 Application : Reinforcement Sheet For Carbon Fiber Epoxy System  
 Company : **PT. HISSAN TRADING INDONESIA**  
 Address : 18 Office Park Lt. 15 Suite A, Jl. TB Simatupang Kav. 18, Jakarta Selatan, 12520 Indonesia  
 Telephone : +62-21-2278 4182 Fax: +62-21-2278 4186

## 2. HAZARDS IDENTIFICATION

- Hazard Risk Classification
  - Hazard Class : Irritant
  - Routes of Invasion : Eat or Skin/eye contact
  - Potential Health : Irritates to eye and skin
  - Potential Environment Effects : No pollution
  - Blasting Risk : Not flammable

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients	CAS No.	Content, %
Carbon Fiber	308063-67-4	>99.85

## 4. FIRST AID MEASURES

Skin : Wash thoroughly with soap and water or suitable skin cleanser as soon as Possible.  
 Eye : Irrigate immediately with copius quantities of water for several minutes. Obtain medical attention if irritation persists.  
 Inhalation : Remove from exposure – unlikely to occur.  
 Ingestion : **Do not induce vomiting, Wash out mouth with water. Obtain medical attention.**

## 5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media : None, not flammable.  
 Special Exposure Hazards : None.  
 Special Protective Equipment : None.

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## 6. ACCIDENTAL RELEASE MEASURES

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Personal Precautions	: Access to protective equipment after use and prevent damage of the material that the dust distributed
Environmental Precautions	: Prevent from entering waterways, sewers, basements, etc.
Decontamination Procedures	: Contain and remove by best available means. Gather into containers And dispose of as waste

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## 7. HANDLING AND STORAGE

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Handling	: Avoid skin and eye contact
Storage	: Store in cool and dry area, protect from frost.

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## 8. EXPOSURE CONTROL / PERSONAL PROTECTION

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Maximum Allowable Concentration	: Non listed
Test Method	: Non listed
Engineering Control	: Non listed
Respiratory Protection	: No special requirement
Eye Protection	: Wear goggles when working with it
Skin Protection	: Wear appropriate protective clothing
Hand Protection	: Wear safety gloves
Other Protection	: After work, freshen up and form good health habits.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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Appearance and Shape	: Solid
pH value	: Not available
Melting point (°C)	: Not available
Boiling point (°C)	: Not available
Relative Density	: 1.6 – 2.0 (20°C)
Flashing point (°C)	: Not available
Ignition temperature (°C)	: Not available
Solubility	: Non soluble
Main Application	: Applied in concrete surface to strengthens concrete physical properties

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## 10. STABILITY AND REACTIVITY

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Stability	: Stable in room temperature
Incompatible material	: A strong oxidizing agent
Conditions to avoid	: Heat flash. Strong acid.
Hazardous Polymerization	: Not available
Hazardous Decomposition	: Not available

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## 11. TOXICOLOGICAL INFORMATION

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Toxicity	: Non toxic
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## 12. ECOLOGICAL INFORMATION

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Ecotoxicity	: Eco friendly
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### 13. DISPOSAL CONSIDERATIONS

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Character of Disposal : Normal industrial waste materials  
Disposal treatment : Refer to national and local standard

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### 14. TRANSPORT INFORMATION

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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.

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### 15. REGULATORY INFORMATION

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This product is NOT classified as dangerous.

Hazard Label Data:

Safety Phrases : In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
Avoid contact with skin and eyes.

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) Rags. 1996 (SI 1746).

Control of Substances Hazardous to Health Rags. 1994 (SI 1657).

Environmental Protection (Duty of Care) Rags. 1991 (SI 2839)

Codes of Practice: Waste Management. The Duty of Care.

Guidance Notes: The above publications are available from HMSO

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### 16. OTHER INFORMATION

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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 users 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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