

# SAFETY DATA SHEET

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

Product Name: **Estoflex Solar 801 P (Part A)**  
 Application: Pure Polyurea Waterproofing  
 Use advised against: No additional information available  
 Company: **PT. HISSAN TRADING INDONESIA**  
 Address: 18 Office Park Lt. 15 Suite A, Jl. TB Simatupang Kav. 18, Jakarta Selatan, 12520 Indonesia  
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## 2. HAZARD IDENTIFICATION

### A. Hazard Risk Classification

- Health Hazard
  - Skin Corrosion/Irritation : Category 4
  - Serious eye damage/eye irritation : Category 2
  - Respiratory Sensitization : Category 2
  - Skin Sensitization : Category 1
  - Reproductive Toxicity : Category 1
  - Specific Target Organ Toxicity - Single Exposure : Category 1

### B. Label elements including precaution statements.

- Symbol:



- Signal word: Danger
- Hazard Risk Statement:
  - H315 Cause skin irritation
  - H317 May cause an allergic skin reaction
  - H319 Causes serious eye irritation
  - H332 Harmful if inhaled
  - H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled
  - H361 Suspected of damaging fertility or the unborn child
  - H372 Causes damage to organs through prolonged or repeated exposures.
- Precautionary Statement (Prevention)
  - P260 May cause or intensify fire; oxidizer
  - P264 Avoid breathing dust/fume/gas/mist/vapours/spray
  - P271 Use only outdoors or in a well ventilated area.
  - P272 Contaminated work clothing should not be allowed out of the workplace
  - P280 Wear protective gloves/protective clothing/eye protection/face protection
  - P285 In case of inadequate ventilation wear respiratory protection

(Response)

P302+P352 IF ON SKIN: Gently wash with plenty of soap and water

P304+P341 IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P312 Call a POISON CENTER or doctor/physician if you feel unwell

P314 Causes severe skin burns and eye damage

P332+P313 If skin irritation occurs: Get medical advice/attention.

P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

P362 May cause harm to breast-fed children

P363 Wash contaminated clothing before reuse.

(Storage)

P405 Store locked up

(Disposal)

P501 Dispose of contents/container (in accordance with applicable law)

C. Other Hazard Risk which are not included in the classification criteria (NFPA classification)

NFPA rating Chemical Name	Health	Fire	Reactivity
Polyurethane Prepolymer	No data available	No data available	No data available

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

A. Single product or Mixture: Mixture

B. Common chemical name of the product: Polyurethane resin (Liquid)

Chemical Name	Other Name	CAS No	Content
Polyurethane Prepolymer	Polyurethane Prepolymer	39420 – 98 – 9	100

### 4. FIRST AID MEASURES

Eyes	: Immediately flush with plenty of water for at least 20 minutes Get immediate medical advice/attention if irritation to eyes continues
Skin	: If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse. Remove contaminated clothing. Wash thoroughly with soap and water Flush with plenty of water for at least 20 minutes If you have minor skin contact, Prevent the spread of contaminated place.
Inhalation	: IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. IF exposed or concerned: Get medical advice/attention. If experiencing respiratory symptoms : Call a POISON CENTER or

Ingestion : doctor/physician.  
 : IF exposed or concerned : Get medical advice/attention.  
 IF necessary, Don't administer artificial respiration by mouth-to-mouth. Use proper respiratory medical apparatus.  
 If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into lungs.  
 Never give anything by mouth to an unconscious person.

Indication of immediate medical attention and notes for physician  
 IF exposed: Call a POISON CENTER or doctor/physician and take emergency measures

## 5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media : Foam, carbon dioxide, dry sand  
 Unsuitable Media : No data available  
 Large Fire : Keep containers cool with water spray.  
 Move container from area if you can do so without risk.  
 Use suitable extinguishing agent

Specific hazards arising from the chemical:

Materials from pyrolysis : May produce toxic fumes if burning  
 Fire and explosion hazards : Containers may explode when heated

Special protective equipment and precautions for fire-fighters:

- In the event of fire, wear self-contained breathing apparatus
- Stay against the wind so as not to inhale chemicals or material from pyrolysis
- Move container from fire area if you can do so without risk, use suitable extinguishing agent.

## 6. ACCIDENTAL RELEASE MEASURES

- A. Personal precautions, protective equipment and emergency procedures
  - Avoid breathing dust/fume/gas/mist/vapours/spray
  - Immediately clean leaked material and allow prevention of item 8
  - Eliminate all sources of ignition
  - Stop leak if you can do so without risk.
  - Make prevent the spread covered with plastic sheets
  - Avoid prohibited condition & materials
- B. Environmental precautions and protective procedures
  - Prevent spilled material from entering the ground, water and/or air by using appropriate containment methods.
- C. Methods and materials for containment and cleaning up
  - Stop leak. Dike and contain spill.
  - Absorb with suitable material (e.g dry sand or soil) and clean with water and cleaner.

## 7. HANDLING AND STORAGE

Handling : Do not handle until all safety precautions have been read and understood.  
 Avoid breathing dust/fume/gas/mist/vapours/spray.  
 Contaminated work clothing should not be allowed out of the workplace.  
 Keep container closed when not in use.  
 Avoid contact with skin and eyes.

Wash your handling region thoroughly after handling.  
Avoid prohibited condition & materials.

Storage : Keep away from heat, seal tightly to prevent moisture.

## 8. EXPOSURE CONTROL / PERSONAL PROTECTION

A. Control parameters (e.g. occupational exposure limit values, biological limit values)

Division	KOSHA	ACGIH	Biological exposure limit
Polyurethane Prepolymer	No data available	No data available	No data available

※Describe exposure standards of single material, as there is no data available for mixtures

B. Appropriate engineering controls

Use local ventilation or engineering controls as needed to maintain personnel exposure below the exposure limits.

C. Personal Protective Equipment

Respiratory protection : Wear respiratory protection tested and approved under appropriate government standards such as KOSHA  
 Eye protection : Wear approved chemical safety glasses or goggles  
 Hand protection : Wear approved chemical resistant gloves that may protect hands from direct contact with chemical  
 Body protection : Wear approved chemical resistant cloths

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Transparent or semitransparent liquid
Odor	Aromatic odor
Odor Threshold	No data available
pH	No data available
Melting point/freezing point	No data available
Initial boiling point/boiling range	No data available
Flash point (°C)	208
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Upper/lower flammability or explosive limits	No data available
Vapor pressure	No data available
Solubility	Soluble in toluene, xylene, acetic acid
Vapor density	No data available
Specific gravity	1.14±0.02
Partition coefficient: n-octanol/water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity [25°C,mPa.s(cps)]	400 ~ 800
Molecular weight	No data available

## 10. STABILITY AND REACTIVITY

Chemical stability & possibility of hazardous reaction	Moisture curing (if contact with moisture) May produce toxic fumes if burning
Conditions to avoid	Avoid all sources (e.g. heat, flame, spark) of ignition
Incompatible material	No data available
Hazardous Decomposition products	Toxic fumes

## 11. TOXICOLOGICAL INFORMATION

Information on the likely routes of exposure  
 Polyurethane Prepolymer No data available

### Health hazards information

- Acute toxic

	Oral	Dermal	Inhalation
Polyurethane Prepolymer	No data available	No data available	No data available

- Skin corrosion/irritation

Polyurethane Prepolymer	No data available
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- Serious eye damage/eye irritation

Polyurethane Prepolymer	No data available
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- Respiratory sensitization

Polyurethane Prepolymer	No data available
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- Skin sensitization

Polyurethane Prepolymer	No data available
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- Carcinogenicity

	KOSHA	IARC	OSHA	ACGIH	NTP	EU CLP
Polyurethane Prepolymer	No data available	No data available	No data available	No data available	No data available	No data available

- Germ Cell Mutagenicity

Polyurethane Prepolymer	No data available
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- Reproductive toxicity

Polyurethane Prepolymer	No data available
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- Specific target organ toxicity (single exposure)

Polyurethane Prepolymer	No data available
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- Specific target organ toxicity (repeated exposure)



Polyurethane Prepolymer	No data available
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- Aspiration hazard

Polyurethane Prepolymer	No data available
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## 12. ECOLOGICAL INFORMATION

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## 13. DISPOSAL CONSIDERATIONS

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This product is not suitable for disposal by either landfill or via municipal sewer, drains, and natural streams or via rivers. Recover or recycle if possible, otherwise incineration. Empirical container should be taken for recycling, recovery or disposal. For any disposal, care should be taken to ensure that a suitability qualified or licensed contractor has been selected.

## 14. TRANSPORT INFORMATION

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### ROAD/RAILWAYS

UN number:	UN 1263
Proper shipping name:	Paint
Class:	3
Packing group:	ii

### AIR TRANSPORT

UN number:	UN 1263
Proper shipping name:	Paint
Class:	3
Packing group:	ii

### TRANSPORT BY SEA

Marine Pollutant:	Yes
EMS No:	F-E, S-E
UN number:	UN 1263
Proper shipping name:	Paint
Class:	3
Packing group:	ii
MFAG No:	310, 313
IMDG Code Page:	3139

## 15. REGULATORY INFORMATION

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Follow the local regulation.

## 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 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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**SDS** : Estoflex Solar 801 P (Part A)  
**Date of Issue** : 30/06/2020  
**Date of Revision** : 25/08/2023  
**Revision** : 05