

# MATERIAL SAFETY DATA SHEET

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

Product Name: **ESTOCURE SC**  
 Application: Concrete Curing Agent  
 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  
 Telephone: +62-21-2278 4182 Fax: +62-21-2278 4186

## 2. HAZARDS IDENTIFICATION

### A. Hazard Risk Classification

- Health Hazard
  - Acute toxicity:
    - Dermal: Category 5
    - Skin corrosion/ irritation: Category 2
    - Serious eye damage/ eye irritation: Category 2A
    - Skin sensitization: Category 1

### B. Label elements including precaution statements.

- Symbol:



- Signal word: Warning
- Hazard Risk Statement
  - H313 Maybe harmful in contact with skin
  - H315 Causes skin irritation
  - H317 May cause an allergic skin reaction
  - H319 Causes serious eye irritation
- Precautionary Statement (Prevention)
  - P262 Do not get in eyes, on skin, or on clothing
  - P264 Wash hands thoroughly after handling
  - P272 Contaminated work clothing should not be allowed out of the workplace P280 Wear protective gloves/protective clothing/eye protection/face protection

(Response)

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  
 P333 + P313 If skin irritation or rash occurs: Get medical advice/attention P362+ P364 Take off contaminated clothing and wash it before reuse  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P337+P313 If eye irritation persists: Get medical advice/attention.  
 P312 Call a POISON CENTER or doctor/physician if you feel unwell

(Disposal)

P501 Dispose of contents / container in accordance with applicable law

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

No.	Material Name	CAS No.	Content, %
1.	Sodium silicate	1344-09-8	20-30
2.	Water	7732-18-5	60-80

### 4. FIRST AID MEASURES

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.  
 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.

### 5. FIRE FIGHTING MEASURES

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

### 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Wear suitable protective clothing, gloves, and eye / face protection.  
 Environmental Precautions: Prevent entry into drain, sewers, and water courses.  
 Decontamination Procedures: Soak up with inert absorbent or contain and remove by best available means. Dispose of as waste. Residue may be flushed to drain with large volumes of water. Prior consent must be obtained from the local Water Company if discharged to sewer

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## 7. HANDLING AND STORAGE

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

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## 8. EXPOSURE CONTROL / PERSONAL PROTECTION

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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 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:	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.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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Physical state and appearance:	Liquid. (Oily liquid.)
Odor:	Odorless.
Taste:	Not available.
Molecular Weight:	Not applicable.
Color:	Clear Colorless.
pH (1% soln/water):	Basic.
Boiling Point:	The lowest known value is 100°C (212°F) (Water).
Melting Point:	Not available.
Critical Temperature:	Not available.
Specific Gravity:	Weighted average: 1.15 (Water = 1)
Vapor Pressure:	The highest known value is 17.535 mm of Hg (@20°C) (Water).
Vapor Density:	The highest known value is 0.62 (Air = 1) (Water).
Volatility:	Not available.
Odor Threshold:	Not available.
Water/Oil Dist. Coeff.:	Not available.
Ionicity (in Water):	Not available.
Dispersion Properties:	See solubility in water, methanol, diethyl ether.
Solubility:	Easily soluble in cold water, hot water.

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## 10. STABILITY AND REACTIVITY

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

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## 11. TOXICOLOGICAL INFORMATION

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The following toxicological assessment is based on a knowledge of the toxicity of the product's components.  
Oral LD50, rat < 5000 mg/kg

### Health Effects

On eyes:	May cause transient irritation
On skin:	Unlikely to irritate on brief or occasional exposure.
By Inhalation:	Mist and vapors may cause irritation to nose and respiratory tract.
By Ingestion:	May cause nausea, vomiting and diarrhea. Low order of acute toxicity
Chronic:	Repeated and prolonged skin contact may lead to skin disorders.

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## 12. ECOLOGICAL INFORMATION

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Environmental Assessment:	When used and disposed of as intended, no adverse environmental effects are foreseen.
Mobility:	Mobile liquid. Partially soluble in water
Persistence & Degradability:	Not known.
Bio accumulated Potential:	Not known.
Ecotoxicity:	Not expected to be ecotoxic to fish / daphnia / algae.

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## 13. DISPOSAL CONSIDERATIONS

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Disposal must be in accordance with local and national legislation.	
Unused Product:	Dispose of through an authorized waste contractor to a licensed site. Do not empty into drains, sewers, or water courses.
Used/Contaminated Product:	As for Unused product.
Packaging:	May be steam cleaned and recycled.

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## 14. TRANSPORT INFORMATION

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Dot Hazard Classification  
Dot Proper Shipping Name  
Other Requirements  
Dot-Department Of Transportation Hazardous Materials Regulations

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## 15. REGULATORY INFORMATION

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### Hazard Label Data: -

This product is NOT classified as dangerous for supply.

Safety Phrases:	Avoid in contact with skin and eyes. Wear suitable gloves and eye/face protection. Use only in well ventilated areas.
EC Directives:	Dangerous Preparations Directive, 88/379/EEC. Safety Data Sheets Directive, 91/155/EEC. Dangerous Substances Directive, 67/548/EEC, and adaptations.
Statutory Instruments:	Health & Safety at Work, etc. Act 1974. Chemicals (Hazard Information and Packaging for Supply) (Amendment) Regs. 1996 (SI 1092). Control of Substances Hazardous to Health Regs. 1994 (SI 3246). Environmental Protection Act 1990.
Codes of Practice:	Waste Management. The Duty of Care.
Guidance Notes:	Occupational exposure limits (EH 40).

The above publications are available from HMSO

## 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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