

# MATERIAL SAFETY DATA SHEET

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

Product Name: **ESTOTECT ZINCRICH**  
 Application: Zinc rich epoxy protective coating  
 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
- Flammable Identification Class 2
- Serious eye damage/irritation Class 2
- Respiratory Organ hypersensitivity Class 1
- Skin Hypersensitivity Class 1
- Reproduction Toxicity Class 1B
- Acute aquatic environment hazard Class 1
- No data available

### B. Label elements including precaution statements.

- Symbol:



- Signal word: Danger

- Hazard Risk Statement

H225 Flammable  
 H304 May be harmful in case of flowing into respiratory  
 H317 Cause allergic skin reaction  
 H319 Cause serious irritation to eye  
 H334 May cause allergic reaction, asthma or dyspnea in case of inhalation

- Precautionary Statement (Prevention)

P201 Secure the instruction manual before use  
 P202 Don't use the product until read and understand all safety and preventive measures  
 P210 Stay away from heat, spark, fire, high temperature (no-smoking)  
 P233 Seal tightly bottle or pail  
 P260 Don't inhale (dust, fume, gas, mist, vapor, spray)  
 P261 Avoid inhaling (dust, fume, gas, mist, vapor, spray)  
 P264 Wash the handled area completely after handling the product

- P270 Don't eat, drink or smoke while using this product
- P271 Handled the product only outdoors or at a place of well-ventilation
- P272 Don't take the contaminate clothing out of work place
- P273 Don't throw away to the environment
- P280 Wear protective gloves, clothing, goggle, face mask
- P281 Wear proper personal protective equipment
- P285 Wear the respiratory system protecting equipment in bad ventilation

(Response)

- P301+P310 In case of swallowing, consult a medical institution(doctor) immediately
- P302+P352 In case of skin contact, flush skin with a great deal of water and soap
- P303+P361+P353 In case of skin(or hair) contact, take off or remove all contaminated clothing, and wash skin with water/shower
- P304+P340 In case of inhalation, move to the place of fresh air and take a rest in the respirable posture
- P331 Do not make a vomit
- P333+P313 If skin irritation or erythema occurs, seek medical attention advice
- P337+P313 If eye irritation persist, seek medical attention advice
- P342+P311 In case of showing symptom of respiratory system, consult medical institution(doctor)
- P363 Clean the contaminated clothing before reusing it
- P370+P378 In case of fire, use(...) for extinguish a fire
- P391 Collect spills

(Storage)

- P403+P233 Store the container sealed tightly in the well-ventilated place
- P403+P235 Store in good ventilation, keep in low temperature
- P405 Store the product in the locked storage area (Disposal)
- P501 Dispose of contents / container

- Disposal
  - P501 Dispose of the container of contents(as specified in the relevant laws and regulation)

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Material Name	CAS No.	KE No.	Content, %
Aromatic hydrocarbon	64742-95-6		>25 < 50
1 methoxy 2 propanol	107-98-2		>10 < 25
Zinc powder	7440 -66-6		>50
Other additives			>15

### 4. FIRST AID MEASURES

- Inhalation  
Ingestion
  - Get medical attention immediately.
  - Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- Skin Contact
  - If breathing is difficult, supply victim with oxygen.
  - If on skin, immediately wash skin with plenty of water for more than 20 minutes.
  - Remove/take off immediately and isolate all contaminated cloths and shoes.
  - Fully wash and dry contaminated cloths and shoes before reuse.
  - Get medical attention immediately.

Eye Contact	If in eye, immediately rinse eyes cautiously with plenty of water for more than 20 minutes. Get medical attention immediately
Indication of immediate medical attention and notes	If not breathing, bring victim by artificial respiration. Advise doctor what the material is so to take proper protective actions.

## 5. FIRE FIGHTING MEASURES

Suitable (and unsuitable) Extinguishing media	Big Fire: water spray/fog and regular foam (suitable extinguishing media) Small Fire: dry sand, dry extinguishing chemical, alcohol resistant foam, water spray, regular foam and CO2 (suitable extinguishing media)
Specific hazards arising from the chemical	If heated, the container may be exploded. Inhalation of the chemical is hazardous. Heat, spark or flame may ignite it.
Special protective equipment and precautions for fire-fighters	Leaked substances cause pollution. For extinguishing water disposal, make a ditch to contain and not to scatter it.

## 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	Remove all of the ignition sources.
Environmental precautions and protective procedures	Prevent inflow of the chemical into the waterway, the sewer, the basement and the closed space.
Methods and materials for containment and cleaning up	If massively leaked, make a ditch away from the leaked liquids.  If small spills, wash out the contaminated area with plenty of water. If small spills, use sand or other noncombustible material to absorb spills and collect spilled material in appropriate container for disposal. Collect spilled material in a clean and dry container with a clean shovel, loosely close it and remove it from the contaminated area

## 7. HANDLING AND STORAGE

Precaution for safe handling	Wash thoroughly after handling. Be aware of substances and conditions to avoid.
Conditions for safe storage: Keep it in a sealed container	Keep it at a cool and dry place. Be aware of substances and conditions to avoid.

## 8. EXPOSURE CONTROL / PERSONAL PROTECTION

<b>Control parameters</b> (e.g. occupational exposure limit values, biological limit values)	
Domestic regulation	No data available
ACGIH regulation	No data available
Biological exposure limits	No data available

<b>Appropriate engineering controls</b>	Use appropriate engineering-controlled process isolation and/or a local ventilator, and maintain the atmosphere under the exposure limit values.
<b>Personal protective equipment</b>	
Respiratory protection:	Wear the respiratory protection device certified by Korea Occupational Safety and Health Agency according to the physical and chemical characteristics of the exposed substances.
Eye protection:	Wear protective goggles and glasses that protect eyes from chemicals. Install eye cleaning fountain facility and emergency washing facility (shower) near workplace.
Hands Protection:	Wear chemically resistant gloves suitable to protect hands.
Body Protection:	Wear chemically resistant cloths suitable to protect the body.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Viscous Liquid
Color	silver/ grey
Odor	aromaic
Odor threshold	(No data available)
pH	(No data available)
Melting point/freezing point	(No data available)
Initial boiling point/range	(No data available)
Flashing point	30°C
Evaporation rate	(No data available)
Autoflammability	290
Upper/lower flammability or explosive limits	- / - (No data available)
Vapor pressure	<1.6
Solubility	partial soluble
Relative density	1.8 – 1.9 (water = 1)

## 10. STABILITY AND REACTIVITY

Chemical stability and possibility: of hazardous reactions	Stable at ambient temperature and pressure. Inhalation of the chemical is hazardous.
Incompatible materials:	Combustible materials Irritating
Hazardous decomposition products:	No data available

## 11. TOXICOLOGICAL INFORMATION

Information on the likely routes of exposure:	No data available Short term exposure may cause nausea, vomiting and/or diarrhea. Short term exposure may cause irritation.
Health hazards information	Short term exposure may damage eyes.
<b>Acute toxic</b>	
Oral	LD50 49000 mg/kg Rat
Skin	(No data available)
Inhalation	(No data available)
Skin corrosive/irritant	No data available
Serious eye damage/eye irritation	No data available

Respiratory sensitization	No data available
Skin sensitization	No data available

**Carcinogenicity**

Industrial Safety and Health Act	No data available
Notice of the Ministry of Employment and Labor	No data available
IARC	No data available
OSHA	No data available
ACGIH	No data available
NTP	No data available
EU CLP	No data available
Germ Cell Mutagenicity	No data available
Reproductive toxicity	No data available
Specific target organ toxicity (single exposure)	No data available
Specific target organ toxicity (repeated exposure)	No data available
Aspiration hazard	No data available

**12. ECOLOGICAL INFORMATION**

**Aquatic and terrestrial ecotoxicity**

Fish	No data available
Shellfish	No data available
Bird	No data available

**Persistence and degradability**

Persistence	(Not applicable)
Degradability	(No data available)

**Bio accumulative potential**

Bio accumulative potential:	No data available
Biodegradability	No data available

**Mobility in soil**

No data available

**Other adverse effects**

No data available

**13. DISPOSAL CONSIDERATIONS**

Disposal method:	If specified in Wastes Control Act, dispose contents and containers in accordance with Wastes Control Act.
Disposal precaution:	If specified in Wastes Control Act, consider precautions specified in Wastes Control Act.

**14. TRANSPORT INFORMATION**

UN number	1263
UN proper shipping name	Paint related materials including paint
Transport hazard class	Class 3
Packing group	Class 3
Marin Pollution	No data available

Special precaution which a user to be aware of or needs to comply with in connection with transport or



conveyance either within or outside their premises

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## 15. REGULATORY INFORMATION

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A. Industrial Safety and Health Act	Not applicable
B. Toxic Chemical Control Act	Not applicable
C. Dangerous Material Safety Control Act	Not applicable
D. Wastes Management Act	Not applicable
E. Other requirements in domestic and other countries	
- Domestic	
Persistent Organic Pollutants Control Act	Not applicable
- International	
USA (OSHA)	Not applicable
USA (CERCLA)	Not applicable
USA (EPCRA 302)	Not applicable
USA (EPCRA 304)	Not applicable
USA (EPCRA 313)	Not applicable
USA (Rotterdam Convention Material)	Not applicable
USA (Stockholm Convention Material)	Not applicable
USA (Montreal Protocol Material)	Not applicable
EU Classification (confirmed classification)	Not applicable
EU Classification (hazard statement)	Not applicable
EU Classification (safety statement)	Not applicable

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## 16. OTHER INFORMATION

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A. Information sources and references	
ECOSAR (Fish)	
ECOSAR (Shellfish)	
ECOSAR (Bird)	
EPIWIN (Accumulation)	
B. Issuing date	April 29, 2017
C. Revision number and date	
Revision number	01
Revision date	April 29, 2020
D. Others	
No data available	

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.

**SDS**                    **Estotect Zincrich**  
**Date Issued**        **04/07/2021**  
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