



# SAFETY DATA SHEET

## KisCote FE (Part A)

### 1 IDENTIFICATION OF THE SUBSTANCE/PREPERATION AND OF THE COMPANY UNDERTAKING

PRODUCT NAME KisCote FE (Part A)  
APPLICATION 2 Part Water Based Epoxy Coating  
SUPPLIER Kensetsu International (S) Pte Ltd  
No.7 Mandai Link #09-24  
Mandai Connection  
Singapore 728653  
sales@kst-grp.com  
CONTACT TELEPHONE Phone: (65) 6255 6855 (not in use for 24hours)  
Fax: (65) 6255 5755

### 2 HAZARDS IDENTIFICATION

#### GHS CLASSIFICATION

Physical and Chemical Hazards Not classified.  
Human health Acute toxicity (oral) 4 - H302; Skin Corrosion/Irrit. 2 - H315; Skin Sens. 1 - H317;  
Environment Aquatic Chronic 2 - H411

#### LABEL IN ACCORDANCE with GHS



SIGNAL WORD Warning

HAZARD STATEMENTS: H302 Harmful if swallowed.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H411 Toxic to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENTS P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
P264 Wash hands thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P272 Contaminated work clothing should not be allowed out of workplace.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.  
P302+P352 IF ON SKIN: Wash with plenty of soap and water.  
P312 Specific treatment.  
P330 Rinse mouth.



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P332+P313	If skin irritation occurs: Get medical advice/attention.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P362	Take off contaminated clothing and wash before reuse.
P363	Wash contaminated clothing before use.
P391	Collect spillage.
P501	Dispose of content/container in accordance with local/national/international regulation. Other hazards which do not result in classification: (NFPA Classification)

### 3 COMPOSITION/INFORMATION ON INGREDIENTS

REACTIVE DILUENTS	20 – 40%
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CAS-No: 68609-97-2

BISPHENOL-A TYPE EXPOXY RESIN	60 - 80%
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CAS-No: 25068-38-6

### 4 FIRST-AID MEASURES

#### INHALATION

Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.

#### INGESTION

Do not induce vomiting. Get medical attention immediately.

#### SKIN CONTACT

Remove contaminated clothing immediately and wash skin with soap and water. Seek medical advice immediately if develop skin inflammation.

#### EYE CONTACT

Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyelids widely. If irritation persists: seek medical attention and bring along these instructions.

### 5 FIRE-FIGHTING MEASURES

#### EXTINGUISHING MEDIA

Carbon dioxide, powder, foam or water fog. Do not use water jets.

#### SPECIFIC EXPOSURE HAZARDS

Toxic fumes.

#### PROTECTIVE MEASURES IN FIRE

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.



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#### 6 ACCIDENTAL RELEASE MEASURES

##### PERSONAL PRECAUTIONS

Wear protective clothing as described in Section 8 of this safety data sheet. Do not smoke, use open fire or other sources of ignition.

##### ENVIRONMENT PRECAUTIONS

Spillages or uncontrolled discharges into watercourses must be IMMEDIATELY alerted to the Environment Agency or other appropriate regulatory body. Avoid discharge into drains, water courses or onto the ground.

##### SPILL CLEAN UP METHODS

Clear with liquid absorbent or contain and remove by best available means. Contact local industrial waste disposal company for disposal.

#### 7 HANDLING AND STORAGE

##### USAGE PRECAUTIONS

Keep away from heat, sparks and open flame.

##### STORAGE PRECAUTIONS

Store in tightly closed original container in a dry, cool and well-ventilated place. Keep away from food, drink and animal feeding stuffs.

#### 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

##### PROTECTIVE EQUIPMENT



##### OCCUPATIONAL EXPOSURE LIMIT

None assigned.

##### ENGINEERING CONTROL MEASURES

Provide adequate ventilation, including appropriate local extraction.

##### HANDS PROTECTION

Use chemical resistant gloves classified under Standard EN374.

##### EYE PROTECTION

Use EN166 or equivalent safety goggles (with side shield).

##### HYGIENE MEASURES

Wash hands at the end of each work shift and before eating, smoking and using the toilet.

##### SKIN PROTECTOR

Wear apron or protective clothing in case of contact.



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#### 9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Vicious Liquid
COLOUR	Clear to pale yellow
RELETIVE DENSITY @ 20°C	1.17
WATER SOLUBILITY	Not miscible
FLASH POINT (CLOSED,°C)	>200
AUTO FLAMMABILITY (°C)	Auto ignition temperature: >200
VAPOUR PRESSURE (kPa @ 20°C)	< 0.01

#### 10 STABILITY AND REACTIVITY

##### STABILITY

Stable when react with compound containing amino, hydroxyl or carbon groups to give stale, cross linked materials.

##### CONDITIONS TO AVOID

Not known

##### MATERIALS TO AVOID

Strong acids, strong alkalis, strong oxidizing agents

##### HAZARDOUS DECOMPOSITION PRODUCTS

Thermal decomposition. Oxides of carbon. Irritant fumes.

#### 11 TOXICOLOGICAL INFORMATION

Information on the likely routes of exposure:

- (Respiratory) - Not available
- (Oral) - Harmful if swallowed
- (Eye Skin) - Causes skin irritation  
May cause an allergic skin reaction

Delayed and immediate effects and also chronic effects from shorts and long term exposure:

##### Acute toxicity

- \*Oral - [4,4'-(1-methylethylidene)bisphenol polymer with (Chloromethyl)oxirane]:  
LD50 > 1000 mg/kg Rat
- \*Dermal - [4,4'-(1-methylethylidene)bisphenol polymer with (Chloromethyl)oxirane]:  
LD50 > 20000 mg/kg Rabbit
- \*Inhalation - Not available

- Skin corrosion/irritation - Causes skin irritation
- Serious eye damage/irritation - Not available
- Respiratory sensitization - Not available
- Skin sensitization - May cause an allergic skin reaction
- Carcinogenicity
  - \*IARC - Not available
  - \*OSHA - Not available
  - \*ACGIH - Not available
  - \*NTP - Not available
  - \*EU CLP - Not available



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### 12 ECOLOGICAL INFORMATION

#### ECO-TOXICITY

- Fish - [4,4'-(1-methylethylidene)bisphenol polymer with (Chloromethyl)oxirane]:  
LC50 = 1.41 mg/l 96 hr Oryzias latipes
- Crustaceans - [4,4'-(1-methylethylidene)bisphenol polymer with (Chloromethyl)oxirane]:  
LC50 = 1.7 mg/l 48 hr
- Algae - Not available

#### PERSISTENCE AND DEGRADABILITY

- Persistence - [4,4'-(1-methylethylidene)bisphenol polymer with (Chloromethyl)oxirane]:  
log Kow = 2.821 (Estimates)
- Degradability - Not available

#### BIOACCUMULATIVE POTENTIAL

- Bioaccumulative potential  
[4,4'-(1-methylethylidene)bisphenol polymer with (Chloromethyl)oxirane]:  
BCF = 0.56 ~ 0.67 (Exposure concentrates: 10ug/1, 5.6 <= )  
BCF = <6.8 (Exposure concentrations: 1ug/1)

#### BIODEGRADATION

- [4,4'-(1-methylethylidene)bisphenol polymer with (Chloromethyl)oxirane]:  
Biodegradability = 0 (%) 28 days

Mobility in soil - Not available

Other adverse effects - Not available

### 13 DISPOSAL CONSIDERATION

#### GENERAL INFORMATION

Dispose of through an authorized waste contractor to a licensed site, be react with resin component to give an inert polymeric material.

#### DISPOSAL METHODS

Disposal of waste and residues in accordance with local authority requirements.

### 14 TRANSPORT INFOMATION

#### Classification for ROAD and RAIL Transport (ADR/RID):

UN Number : UN 3082  
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (Epoxy Resin)  
Class : 9  
Packing group : III  
Label(s) : 9  
Marine Pollutant : Yes

#### Classification for SEA Transport (IMO/IMDG):

UN Number : UN 3082  
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (Epoxy Resin)



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Class : 9  
Packing group : III  
Label(s) : 9  
Marine Pollutant : Yes

#### Classification for AIR Transport (IATA/ICAO):

UN Number : UN 3082  
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (Epoxy Resin)  
Class : 9  
Packing group : III  
Label(s) : 9  
Marine Pollutant : Yes

#### 15 REGULATORY INFORMATION

##### Workplace Safety and Health Act & Workplace Safety and Health (General Provisions) Regulations:

This product is subjected to the SDS, labelling, PEL and other requirements in the Act/Regulations.

##### Workplace Classification:

This product is classified as hazardous according to Singapore Standards, Act and Regulations.

The following statutes, regulations and standards have the related prescribes on chemicals in terms of safe use, storage, transportation, loading and unloading, classification and symbol etc.:

Workplace Safety and Health Act & Workplace Safety and Health (General Provisions) Regulations  
Environmental Protection and Management Act and Environmental Protection and Management (Hazardous Substance) Regulations.

Chemicals Weapon Prohibition Act

Fire Safety Act and Fire Safety (Petroleum and Flammable Materials) Regulations.

#### 16 OTHER INFORMATION

REVISION DATE -

REV. NO. SDS-FE-a V2

DATE 15/02/2019

##### DISCLAIMER

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. KENSETSU INTERNATIONAL (S) PTE LTD shall not be held liable for any damage resulting from contact with or handling of the above products.