SAFETY DATA SHEET

KisCote FE (Part B)

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

PRODUCT NAME	KisCote FE (Part B)
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 IDENTIFICACTION

GHS CLASSIFICATION

Physical and Chemical Hazards	Not classified.
Human health	Skin Corrosive. 1B - H314; Eye Dam.1 - H314; Skin Sens. 1 - H317

LABEL IN ACCORDANCE with GHS

SIGNAL WORD Danger

HAZARD STATEMENTS:

H314	Causes severe skin burn and eye damage.
H317	May cause an allergic skin reaction.

PRECAUTIONARY STATEMENTS

Prevention

P260	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264	Wash hands thoroughly after handling.
P280	Wear protective gloves/protective clothing/eye protection/face protection.

Response

P301+P330+P331	IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P303+P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P363	Wash contaminated clothing before use.

Disposal

P501 Dispose of content/container in accordance with local/national/ international regulation

Hazards not otherwise classified

May cause sensitization by skin contact.

Harmful in contact with skin.

3 COMPOSITION/INFORMATION ON INGREDIENS

POLYAMINE POLYMER	> 40%
TETRAETHYLENEPENTAMINE	< 5%
DILUENTS (H2O)	> 20%
EXTENDER/FILLER	> 20%
PIGMENT	> 10%
ADDITIVES	< 5%

4 FIRST-AID MEASURES

INHALATION

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

INGESTION

Wash mouth with plenty of water. Do not induce vomiting. Beware of aspiration if vomiting occurs. Turn victim's head to the side. Get medical attention immediately.

SKIN CONTACT

Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if any discomfort continues.

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.

MOST IMPORTANT

Skin disorders and allergies

SYMPTOMS/EFFECT

Acute and delayed.

IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT

NOTE TO PHYSICIANS: Application of corticosteroid cream has been effective in treating skin irritation.

5 FIRE-FIGHTING MEASURES

EXTINGUSHING MEDIA

Alcohol-resistant foam, Carbon dioxide (CO_2), Dry chemical, Dry sand, Limestone powder.

SPECIFIC HAZARDS

May generate ammonia gas. May generate toxic nitrogen oxide gas. Use of water may result in formation of very toxic aqueous solutions. Do not allow run-off from fire-fighting to enter drains or water courses. Incomplete combustion may form carbon monoxide. Ammonia gas may be liberated at high temperatures. In case of incomplete combustion an increased formation oxides of nitrogen (NOx) is to be expected. Downwind personnel must be evacuated. Burning produce noxious and toxic fumes.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTER

Avoid contact with the skin. Use proper personal protective equipment. Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

Wear protective clothing as described in Section 8 of this safety data sheet. Use self-contained breathing apparatus and chemically protective clothing. Evacuate personnel to safe areas.

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

Approach suspected leak areas with caution. Place material in appropriate chemical waste containers. Call Emergency Response number for advice.

7 HANDLING AND STORAGE

USAGE PRECAUTIONS

Do not use sodium nitrite o other nitrosating agents in formulations containing this product. Suspected cancer-causing nitrosamines could be formed. Emergency shower and eye wash stations should be readily accessible. Adhere to workplace safety rules established by government regulations. Ensure adequate ventilation. Avoid skin contact. Maintain good standards of personal hygiene. Do not eat, drink or smoke when handling.

STORAGE PRECAUTIONS

Do not store near acid and keep away from alkalis. Keep container dry and tightly closed. Ensure adequate ventilation. Protect from heat and direct sunlight. Store in a dry, cool and well-ventilated place.

TECHNICAL MEASURES/PRECAUTIOUS

Do not store in reactive metal containers.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

PROCTECTIVE EQUIPMENT

OCCUPATIONAL EXPOSURE LIMIT

Tetraethylenepentamine	Time weighted average (TWA): WEEL	1 ppm	5 mg/m^3

ENGINEERING CONTROL MEASURES
Provide readily accessible eye wash stations and safety showers. Provide natural or explosion-proof ventilation adequate to ensure concentrations are kept below exposure limits.

HANDS PROTECTION
Chemical resistant, impervious protective gloves are recommended.

EYE PROTECTION
Wear approved chemical resistant safety goggles.

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

SKIN PROTECTOR
Wear impervious clothing in case of contact.

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Viscous liquid, Pigmented
ODOUR	Ammonia
RELETIVE DENSITY @ 20°C	1.13
WATER SOLUBILITY	Soluble
FLASH POINT (°C)	>100

10 STABILITY AND REACTIVITY

STABILITY
Stable under normal temperature conditions and recommended use.

CONDITIONS TO AVOID
No data available

MATERIALS TO AVOID
Sodium hypochlorite. Organic acid (i.e. acetic acid, citric acid etc.). Mineral acids. Product slowly corrodes copper, aluminium, zinc and galvanized surfaces. Incompatible with bases. Reaction with peroxide possibly creating an explosion. Amine. Reducing agents. CAUTION! N-Nitrosamines, many of which are known to be potent carcinogen, may be formed when the product comes in contact with nitrous acid, nitrites or atmosphere with high nitrous oxide concentrations. Nitrous acid and other nitrosating agents. Oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS
Organic acid vapours, Nitric acid, Ammonia, Nitrogen oxides (NOx), Nitrogen oxide can react with water vapours to form corrosive nitric acid. Carbon dioxide (CO2), Carbon monoxide, Nitrosamine, Chlorine.

11 TOXICOLOGICAL INFORMATION

Information on toxicological effects
Likely routes of exposure
Effects on Eye : No data available

Effects on skin	: Symptoms of over exposure may be headache, dizziness, tiredness, nausea and vomiting. Harmful in contact with skin.
Inhalation Effects	: Harmful if inhaled and may cause delayed lung injury.
Ingestion Effects	: No data available.
Symptoms	: No data available.

Acute toxicity
Acute Oral Toxicity : No data available on the product itself.

Acute Oral Toxicity – Components

Tetraethylenepentamie	LD50 : 2140mg/kg	Species : Rat

Inhalation	: No data available on the product itself.
Acute Dermal Toxicity	: No data available on the product itself.
Skin corrosion/Irritation	: No data available
Serious eye damage/eye irritation	: No data available
Sensitization	: Sensitization has occurred in laboratory animals after repeated exposures.

Chronic toxicity or effects from long term exposures

Carcinogenicity	: No data available
Reproductive toxicity	: No data available on the product itself.
Germ cell mutagenicity	: Result from a battery of short term genotoxicity tests on this material or its components indicate mutagenic activity.
Specific target organ systematic toxicity (Single exposure)	: No data available
Specific target organ systematic toxicity (repeated exposure)	: No data available
Aspiration hazard	: No data available

Delayed and immediate effects and chronic effects from short and long term exposure
This product contains no listed carcinogens according to IARC, ACGIH, NTP and/or OSHA in concentrations of 0.1 percent or greater. May cause allergic skin reaction. Skin disorder and allergies.

12 ECOLOGICAL INFORMATION

ECOTOXICITY EFFECTS

Aquatic toxicity	:EC50 (24h): > 10 mg/l	Species: Daphnia magna
	EC50 (48h): 1.21 mg/l	Species: Daphnia magna
Toxicity to other organisms	: No data available	

PERSISTENCE AND DEGRADABILITY

Biodegradable	: According to the results of test of biodegradability, this product is not readily biodegradable.
Mobility	: No data available.
Bioaccumulation	: No data available on the product itself.

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

15 REGULATORY INFOMATION

TOXIC SUBSTANCE CONTROL ACT (TSCA) 12(b) COMPONENT(S): None

Country	Regulatory List	Notification
USA	TSCA	Not on inventory.
EU	EINECS	Not on inventory.
Canada	DSL	Not on inventory.
Australia	AICS	Not on inventory.
Japan	ENCS	Not on inventory.
South Korea	ECL	Included on Inventory.
China	SEPA	Included on Inventory.
Philippines	PICCS	Not on inventory.

EPA SARA Title III Section 312 (40 CFR 370) Hazard Classification
- Acute Health Hazard

EPA SARA Title III Section 313 (40 CFR 372) Component(s) above 'de minimus' level

- None

US California Safe Drinking Water & Toxic Enforcement Act (Proposition 65)

- This product does not contain any chemicals known to State of California to cause cancer, birth defects or any other harm.

16 OTHER INFOMATION

REVISION DATE -
REV. NO. SDS-FE-b 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.