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1. PRODUCT IDENTIFICATION

TRADE NAME (as labeled): Flow ESD Conductive Part B

CHEMICAL FAMILY: Epoxy Hardener

MANUFACTURER'S/ DISTRIBUTOR'S NAME: LATICRETE South East Asia Pte Ltd

38 Sungei Kadut,

Street 2 (Level2 A3),

Singapore 729245.

Phone number for additional information: (65) 6515 3028

Date prepared or revised: 15/01/2020

2. **COMPOSITION INGREDIENTS**

Chemical Names	CAS NUMBERS	Percent	
Isophoronediamine	2855-13-2	10-30	
Phenylcarbinol	100-51-6	30-40	
Cycloaliphatic amine	N/A	40-50	

3. HEALTH HAZARD INFORMATION

SYMPTOMS OF OVEREXPOSURE for each potential route of exposure. (Possible Longer

Term Effects) : N/A

SIGNS AND SYMPTOMS OF EXPOSURE (Acute effects)

Inhaled : Vapors may cause headache, fatigue, dizziness and nausea.

Contact with skin or eyes : Causes skin and eye burns. May cause an allergic skin reaction.

Absorbed through skin : N/A

Swallowed : May cause burns of the gastrointestinal tract if swallowed. May

cause nausea, headache, dizziness and intoxication.



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SUSPECTED CANCER AGENT?

V NO: This product's ingredients are not found in the lists.

4. FIRST AID: EMERGENCY PROCEDURES

Eye Contact : Immediately flush eyes with plenty of water for at least 15 minutes. Remove

contact lenses, if present and easy to do. Continue rinsing. Get medical attention

immediately.

Skin Contact: Take off immediately all contaminated clothing. Chemical burns must be treated

by a physician. Rinse skin with water/shower. Call a physician or poison control

center immediately. Wash contaminated clothing before reuse.

Inhaled : Remove victim to fresh air and keep at rest in a position comfortable for

breathing. Call a physician if symptoms develop or persist.

Swallowed : Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that

stomach content doesn't get into the lungs. Call a physician or poison control

center immediately.

Most important symptoms/effects, acute and delayed: Rinse mouth. Do not induce vomiting. If

vomiting occurs, keep head low so that stomach content doesn't get into the

lungs. Call a physician or poison control center immediately.

Indication of immediate medical attention and special treatment needed: Provide general

supportive measures and treat symptomatically. Symptoms may be delayed. Chemical burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing

during transport to hospital.

General information: Ensure that medical personnel are aware of the material(s) involved, and

take precautions to protect themselves. IF exposed or concerned: Get medical

advice/attention.

5. FIRE FIGHTING MEASURES

Flash Point method : N/A

Auto ignition temperature (°C) : N/A



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Flammable limits in air, volume % : N/A

Fire extinguishing materials : Alcohol resistant foam. Water fog. Dry chemical powder.

Carbon dioxide (CO2).

Special firefighting procedures : Do not use water jet as an extinguisher, as this will spread

the fire. In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk. Use water spray to cool unopened containers. Self-contained breathing apparatus and full protective

clothing must be worn in case of fire.

Unusual fire and explosion hazards : Heating may cause the release of ammonia vapors.

6. <u>ACCIDENTAL RELEASE MEASURES</u>

Spill response procedures (include employee protection measures):

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained.

Large Spills: Stop the flow of material, if this is without risk. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills in original containers for re-use.

NOTE: Dispose of all wastes in accordance with federal, state and local regulations.

Environmental precautions: Avoid release to the environment. Do not discharge into drains, water courses or onto the ground. Environmental manager must

be informed of all major releases.

7. HANDLING AND STORAGE

Precautions for safe handling: Do not handle until all safety precautions have been read and understood. Do not breathe mist or vapor. Do not get in eyes, on



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skin, on clothing. Do not taste or swallow. Avoid contact during pregnancy/while nursing. Use with adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

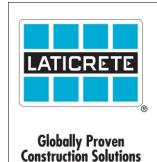
handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

Conditions for safe storage: Keep container tightly closed. Store in a well-ventilated place. Store away from incompatible materials.

8. <u>EXPOSURE CONTROLS AND PERSONAL PROTECTION</u>

Occupational exposure limits

Bengyl alcohol	Time weighted (TWA)	: WEEL	10PPM	44.20 mg/m ³
Ventilation and engineering controls : Good general ventilation (typically 10 air char per hour) should be used. Ventilation rates sh be matched to conditions. If applicable, use proceed enclosures, local exhaust ventilation, or confidence engineering controls to maintain airborne less below recommended exposure limits. If exposition levels to an acceptable level. Provide eyew station.			ntilation rates should plicable, use process entilation, or other tain airborne levels e limits. If exposure ed, maintain airborne	
Respiratory protection (type)		: In case of insufficient ventilation, wear suitable respiratory equipment.		
Eye protection (type) : Wear safety glasses with side shields (or go Face-shield. Wear a full-face respirator, if ne		, , ,		
Gloves (specify m	aterial)	: Use impervious gloves, vinyl or rubber.		
Other clothing and	d equipment	: Wear clean, long-sleeved, body-covering clothing.		
		: When using, do not eat, drink or smoke. Do not get this material on clothing. Always observe good personal hygiene measures, such as washing after		



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Contaminated work clothing should not be allowed out of the workplace.

Other handling and storage requirements : N/A

Protective measures during maintenance of contaminated equipment: See above.

9. PHYSICAL AND CHEMICAL PROPERTIES

Relative density : 1.01

Melting point or range, °C : N/A

Boiling point or range, °C : 205 °C

PH : 9

Viscosity : 400 cP (21 °C)

Flash point : 96 °C

Solubility in water : < 0.1g/l

Bulk density : 1.03

Vapor pressure, mmHg at 20°C : < 10.34 mm Hg (21 °C)

Appearance and odor : Light yellow liquid, ammoniacal odor.

HOW TO DETECT THIS SUBSTANCE (warning properties of substance as a gas, vapor, dust, or mist)

10. STABILITY AND REACTIVITY

Stability : The product is stable and non-reactive under normal

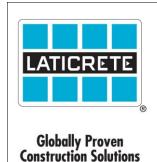
conditions of use, storage and transport.

Conditions to avoid : Avoid temperatures exceeding the flash point. Contact

with incompatible materials.

Incompatibility (materials to avoid) : Alkaline metals. Oxidizing agents. Strong acids. A reaction

accompanied by large heat release occurs when the



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product is mixed with acids. Heat generated may be sufficient to cause vigorous boiling creating splash hazard.

Hazardous decomposition products : Carbon dioxide (CO2). Carbon monoxide. Ammonia. By

heating and fire, irritating vapors/gases may be formed.

Hazardous polymerization : No dangerous reaction known under conditions of normal

use.

11. TOXICOLOGY INFORMATION

Symptoms related to the physical, chemical and toxicological characteristics

the Rash. Corrosive effects. Symptoms may include stinging, and tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Vapors may irritate

throat and respiratory system and cause coughing.

Information on toxicological effects

Acute toxicity May cause discomfort if swallowed.

Components Species Test Results

Acute

Ingestion

LD50 Rat 2,369 mg/kg

Inhalation - Component Phenylcarbinol

Acute

Dermal

LD50 Rabbit 2000 mg/kg

Inhalation

LC50 Rat >4,178 mg/l, 4 Hours

Skin corrosion/irritation Causes severe skin burns and eye damage.

Serious eye damage/eye

irritation

Causes serious eye damage.

Respiratory or skin sensitization

Respiratory sensitization No data available.

Skin sensitization May cause an allergic skin reaction.

Germ cell mutagenicity

No data available to indicate product or any components

present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity This product is not considered to be a carcinogen by IARC,



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ACGIH, NTP, or OSHA.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Reproductive toxicity

Suspected of damaging fertility or the unborn child.

Specific target organ toxicity -

· ·

single exposure

No data available.

Specific target organ toxicity -

repeated exposure

No data available.

Aspiration hazard Not classified, however droplets of the product may be

aspirated into the lungs through ingestion or vomiting and

may cause a serious chemical pneumonia.

Chronic effects Prolonged exposure may cause chronic effects.

12. ECOLOGICAL INFORMATION

Ecotoxicity No data is available on the product itself in aquatic toxicity.

Components Species Test Results

Aquatic

Crustacea EC50 Water flea (Daphnia magna) 10 mg/l, 96 hours Fish LC50 Fathead minnow (Pimephales 460 mg/l, 96 hours

promelas)

Persistence and degradability

No data is available on the degradability of this product.

Bioaccumulative potential

No data available for this product.

Mobility in soil

Not available.

Other adverse effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this

component.

13. <u>DISPOSAL CONSIDERATIONS</u>

Disposal instructions

: Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This material and its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with



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chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazardous waste code : The waste code should be assigned in discussion

between the user, the producer and the waste disposal

company.

Waste from residues / unused products: Dispose of in accordance with local regulations. Empty

containers or liners may retain some product residues. This material and its container must be disposed of in a

safe manner (see: Disposal instructions).

Contaminated packaging : Empty containers should be taken to an approved waste

handling site for recycling or disposal. Since emptied containers may retain product residue, follow label

warnings even after container is emptied.

14. TRANSPORT INFORMATION

ADR IATA

UN number UN2735

Proper shipping name Amines, liquid, corrosive, N.O.S, (Tertiary amine, mixed

Cycloaliphatic amines)

Class or Division 8
Packing Group II
Label(s) 8

IMDG

UN number UN2735

Proper shipping name Amines, liquid, corrosive, N.O.S, (Tertiary amine, mixed

cycloaliphatic amines)

Class or Division 8
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Label(s) 8



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RID

UN number UN2735

Proper shipping name Amines, liquid, corrosive, N.O.S, (N,N-dimethyl-1, 3-

propanediamine, methyleneoxide, polymer with benzenamine,

hydrogenated)

Class or Division 8
Packing Group II
Label(s) 8

15. REGULATORY INFORMATION

International Inventories

Country(s) or region Regulatory List Notification

USA TSCA Included on Inventory

EU EINECS Included on EINECS inventory or polymer

substance, monomers included on EINECS

inventory or no longer polymer

Canada DSL Included on Inventory

Australia AICS Included on Inventory

Japan ENCS Included on Inventory

South Korea ECL Included on Inventory

China SEPA Included on Inventory

Philippines PICCS Included on Inventory

16. OTHER INFORMATION

This information is furnished without warranty, representation, inducement or license of any kind; except that it is accurate to the best of our knowledge, or obtained from sources believed by us to be accurate.