

## 1. **PRODUCT IDENTIFICATION**

TRADE NAME (as labeled): Flow ESD Dissipative 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: 21/10/2024

#### 2. <u>COMPOSITION INGREDIENTS</u>

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

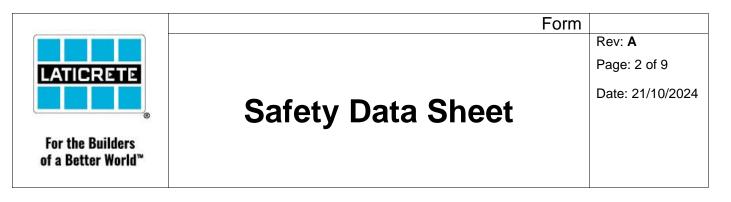
SIGNS AND SYMPTOMS OF EXPOSURE (Acute effects)

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.



#### SUSPECTED CANCER AGENT?

 $\sqrt{10}$  NO: This product's ingredients are not found in the lists.

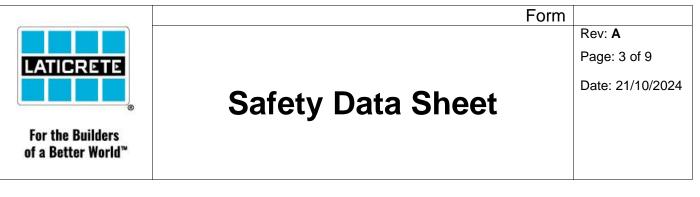
#### 4. FIRST AID: EMERGENCY PROCEDURES

- 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



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. ACCIDENTAL RELEASE MEASURES

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. <u>HANDLING AND STORAGE</u>

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.

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

#### 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Occupational exposure limits

Bengyl alcohol	Time weighted (TWA)	: WEEL	10PPM	44.20 mg/m <sup>3</sup>
Ventilation and eng	jineering controls	per hour) sho be matched to enclosures, l engineering o below recommon limits have no	uld be used. Ver conditions. If ap ocal exhaust v controls to main nended exposure t been establishe	ically 10 air changes ntilation rates should plicable, use process rentilation, or other tain airborne levels e limits. If exposure ed, maintain airborne el. Provide eyewash
Respiratory protec	tion (type)	: In case of respiratory eq		lation, wear suitable
Eye protection (typ	pe)	-	-	shields (or goggles). espirator, if needed.
Gloves (specify ma	aterial)	: Use impervi	ous gloves, vinyl	or rubber.
Other clothing and	equipment	: Wear clean,	long-sleeved, bo	dy-covering clothing.
Work practices, hy	gienic practices	this material personal hygic handling the and/or smokin	on clothing. All ene measures, su material and bef ng. Routinely was	or smoke. Do not get ways observe good uch as washing after fore eating, drinking, sh work clothing and move contaminants.

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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 Rash. Corrosive effects. Symptoms may include stinging, physical, chemical 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

information on toxicological effect	UIS	
Acute toxicity	May cause discomfort if swallow	wed.
Components	Species	Test Results
Acute		
Ingestion		
LD50	Rat	2,369 mg/kg
Inhalation – Component Phenylo	carbinol	
Acute		
Dermal		
LD50	Rabbit	2000 mg/kg
Inhalation		
LC50	Rat	>4,178 mg/l, 4 Hours
Skin corrosion/irritation	Causes severe skin burns and	d 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 rea	action.
Germ cell mutagenicity	No data available to indicat present at greater than 0.1%	te product or any components are mutagenic or genotoxic.
Carcinogenicity		ed to be a carcinogen by IARC,

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#### ACGIH, NTP, or OSHA.

OSHA Specifically Regul Not listed.	ated Substances (29 CFR 1910.1001-1050)
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 <b>Aquatic</b>		Species	Test Results
Crustacea Fish	EC50 LC50	Water flea (Daphnia magna) Fathead minnow (Pimephales promelas)	10 mg/l, 96 hours 460 mg/l, 96 hours
Persistence and degradability Bioaccumulative potential Mobility in soil Other adverse effects		No data is available on the degra No data available for this product Not available. No other adverse environm depletion, photochemical ozone disruption, global warming pote component.	t. ental effects (e.g. ozone creation potential, endocrine

#### 13. **DISPOSAL CONSIDERATIONS**

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



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

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
	Packing Group	II
	Label(s)	8

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## RID

UN number Proper shipping name	UN2735 Amines, liquid, corrosive, N.O.S, (N,N-dimethyl-1, 3- propanediamine, methyleneoxide,polymer with benzenamine, hydrogenated)
Class or Division	8
Packing Group	ll

## 15. <u>REGULATORY INFORMATION</u>

Label(s)

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

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# 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.