1. **PRODUCT IDENTIFICATION**

TRADE NAME (as labeled): LATAPoxy® 310 Stone Adhesive Part A

CHEMICAL FAMILY: Amine Mixture

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: 19/07/2017

2. **COMPOSITION INGREDIENTS**

<table>
<thead>
<tr>
<th>CHEMICAL NAMES</th>
<th>CAS NUMBERS</th>
<th>PERCENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tall oil fatty acid reaction products with tetraethylypentamine</td>
<td>68953-36-6</td>
<td>7-10</td>
</tr>
<tr>
<td>2-Piperazin-1-ylethylamine</td>
<td>140-31-8</td>
<td>1.5 - 2.5</td>
</tr>
<tr>
<td>4-Nonylphenol, branched</td>
<td>84852-15-3</td>
<td>1 - 3</td>
</tr>
<tr>
<td>Benzyl alcohol</td>
<td>100-51-6</td>
<td>1 - 3</td>
</tr>
<tr>
<td>Tetraethylene pentamine</td>
<td>112-57-2</td>
<td>1 - 3</td>
</tr>
<tr>
<td>m-Phenylenebis(methyl amine)</td>
<td>1477-55-0</td>
<td>1 - 3</td>
</tr>
<tr>
<td>Isophorone diamine</td>
<td>2855-13-2</td>
<td>0.4 - 2</td>
</tr>
</tbody>
</table>

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)

Inhalation : Harmful if inhaled. May cause respiratory irritation.
Ingestion  : May cause burns of the gastrointestinal tract if swallowed.

Skin Contact : Causes skin burns. May cause an allergic skin reaction.

Eye Contact  : Causes serious eye damage.

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. Wash contaminated clothing before reuse. Get medical attention immediately.

Inhaled : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if any discomfort continues.

Swallowed : Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Get medical attention if any discomfort continues.

Most important symptoms/effects, acute and delayed : Rash. Corrosive effects. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

5. **FIRE FIGHTING MEASURES**


Unsuitable extinguishing media : Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical : Heating may cause the release of ammonia vapors.

Special protective equipment and precautions for firefighters : Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire-fighting equipment/instructions: 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

6. **ACCIDENTAL RELEASE MEASURES**

**Personal precautions, protective equipment and emergency procedures:** 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.

**Methods and materials for containment and cleaning up**

**Large Spills:** Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. 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.

**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**

Keep container tightly closed. Store in a cool and well-ventilated place. Store away from incompatible materials

8. **EXPOSURE CONTROLS AND PERSONAL PROTECTION**

**Ventilation and engineering controls:** None required.

**Respiratory protection (type):** None required

**Eye protection (type):** Safety Glasses or Goggles

**Gloves (specify material):** When mixing by hand appropriate impervious gloves are recommended. Because a wide variety of protective gloves exist, consult glove manufacturer for recommendations
Other clothing and equipment: Long sleeved clothing

Work practices, hygienic practices: Normal good housekeeping

Other handling and storage requirements: Store in cool, dry, well ventilated area below 32°C. Do not freeze.

Protective measures during maintenance of contaminated equipment: See above

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance
Physical state: Solid.
Form: Paste.
Color: Light red.

Odor: Ammonia.

Flash point: Non flammable.

Relative density: 1.5

Solubility(ies): Insoluble

10. STABILITY AND REACTIVITY

Stability: x Stable

Conditions to avoid: Heat, flames and sparks. Contact with incompatible materials.


Hazardous decomposition products (including combustion products): (from burning, heating, or reaction with other materials). Carbon dioxide (CO2). Carbon monoxide. Nitrogen oxides.
### 11. TOXICOLOGY INFORMATION

<table>
<thead>
<tr>
<th>Components</th>
<th>Species</th>
<th>Test Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Piperazin-1-ylethylamine (CAS 140-31-8)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Acute</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dermal</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Rabbit</td>
<td>880 mg/kg</td>
</tr>
<tr>
<td>4-Nonylphenol, branched (CAS 84852-15-3)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Acute</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dermal</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Rabbit</td>
<td>3160 mg/kg</td>
</tr>
<tr>
<td>Oral</td>
<td>Rat</td>
<td>1300 mg/kg</td>
</tr>
<tr>
<td>Benzyl alcohol (CAS 100-51-6)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Acute</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dermal</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Rabbit</td>
<td>2000 mg/kg</td>
</tr>
<tr>
<td>Inhalation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LC50</td>
<td>Rat</td>
<td>&gt;4178 mg/m³, 4 hours</td>
</tr>
<tr>
<td>Oral</td>
<td>Rat</td>
<td>1230-3100 mg/kg</td>
</tr>
<tr>
<td>Fatty acids, tall-oil, reaction products with tetraethylenepentamine (CAS 68953-36-6)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Acute</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oral</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Rat</td>
<td>&gt;2000 mg/kg</td>
</tr>
<tr>
<td>Isophorone diamine (CAS 2855-13-2)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Acute</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oral</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Rat</td>
<td>1030 mg/kg</td>
</tr>
<tr>
<td>m-Phenylenebis(methylamine) (CAS 1477-55-0)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Acute</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dermal</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Rabbit</td>
<td>2000 mg/kg</td>
</tr>
<tr>
<td>Inhalation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LC50</td>
<td>Rat</td>
<td>700ppm, 1 hour</td>
</tr>
<tr>
<td>Oral</td>
<td>Rat</td>
<td>930 mg/kg</td>
</tr>
</tbody>
</table>
Tetraethylene pentamine (CAS 112-57-2)

**Acute**

**Dermal**
LD50  
Rabbit  0.66 g/kg

**Oral**
LD50  
Rat  2.1 g/kg

12. **ECOLOGICAL INFORMATION**

Dispose in compliance with local, state, and federal regulations.

13. **DISPOSAL CONSIDERATIONS**

Dispose in compliance with local, state, and federal regulations.

14. **TRANSPORT INFORMATION**

**DOT**

UN number : UN3263

UN proper shipping name : Corrosive solid, basic, organic, n.o.s. (4-Nonylphenol, branched, Tetraethylene pentamine)

Transport hazard Class(es)
Class : 8
Subsidiary class(es) : -

Packing Group : III

Environmental hazards
Marine pollutant : Yes

Special precautions for user : Read safety instructions, SDS and emergency procedures before handling.

Special provisions : IB8, IP3, T1, TP33

Packaging exceptions : 154
Packaging non bulk : 213
Packaging bulk : 240

**IATA**

UN number : UN3263
UN proper shipping name: Corrosive solid, basic, organic, n.o.s. (4-Nonylphenol, branched, Tetraethylene pentamine)

Transport hazard class(es)
- Class: 8
- Subsidiary class(es): -
- Packing group: III
- Environment Hazard: Yes
- Labels required: 8
- ERG Code: 8L

Special precautions for user: Read safety instructions, SDS and emergency procedures before handling.

IMDG
- UN number: UN3263
- UN proper shipping name: Corrosive solid, basic, organic, n.o.s. (4-Nonylphenol, branched, Tetraethylene pentamine)

Transport hazard class(es)
- Class: 8
- Subsidiary class(es): -
- Labels required: 8
- Packing group: III
- Environmental hazards
  - Marine Pollutant: Yes
- EmS: F-A, S-B
- Special precautions for user: Read safety instructions, SDS and emergency procedures before handling.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: This substance/mixture is not intended to be transported in bulk.

15. REGULATORY INFORMATION
SARA 311/312 Hazardous Chemical: Yes

16. OTHER INFORMATION
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