1. PRODUCT IDENTIFICATION

TRADE NAME (as labeled): SPECTRALOCK® PRO Grout Part A

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: 07/06/2019

2. HAZARDOUS INGREDIENTS

<table>
<thead>
<tr>
<th>CHEMICAL NAMES</th>
<th>CAS NUMBERS</th>
<th>PERCENT</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>OTHER (SPECIFY)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PolyaminePolymer Poly[oxy(methyl-1,2-ethanediyl)].alpha.(2-aminomethylethyl).omega.-(2-aminomethylethoxy)</td>
<td>9046-10-0</td>
<td>2-4</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Tetraethylenepentamine</td>
<td>112-57-2</td>
<td>0-2</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>

N/A = Not applicable or available

3. HEALTH HAZARD INFORMATION

SYMPTOMS OF OVEREXPOSURE for each potential route of exposure. (Possible Longer Term Effects) Repeated and/or prolonged exposures may result in: adverse eye effects (such as conjunctivitis or corneal damage).

Effects from inhalation of vapors may be delayed.

SIGNS AND SYMPTOMS OF EXPOSURE (Acute effects)

Contact with eyes caused severe irritation and pain. Burns of the eye may cause blindness. Inhalation of aerosols of chemically similar material in rats resulted in deaths during
administration and in transients central nervous system symptoms, including lethargy, ataxia, tremors, and convulsions.

SUSPECTED CANCER AGENT?

___×___ NO: This product's ingredients are not found in the lists below.

4. **FIRST AID: EMERGENCY PROCEDURES**

   **Eye Contact**: Hold eyelids apart and immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately.

   **Skin Contact**: Remove product and immediately flush affected area with water for at least 15 minutes. Remove contaminated clothing and shoes. Launder contaminated clothing prior to reuse. See a physician if irritation persists.

   **Inhaled**: Move patient to fresh air. If breathing has stopped or is labored give assisted respiration (e.g. mouth-to-mouth). Supplemental oxygen may be indicated. Prevent aspiration of vomit. Turn victim’s head to the side. Seek medical advice.

   **Swallowed**: If swallowed, call a physician immediately. Remove stomach contents by gastric suction or induct vomiting only as directed by medical personnel. Never give anything by mouth to unconscious person.

5. **FIRE FIGHTING MEASURES**

   **Flash Point method**: 212°F

   **Auto ignition temperature, °F**: N/A

   **Flammable limits in air, volume %**: Lower (LEL) _____ Upper (UEL) _______

   Fire extinguishing materials:

   _____ Water spray _______ Carbon Dioxide _______ Other:

   _____ Foam _______ Dry Chemical
Ignition will give rise to a Class B fire. In case of fire use: Water streams.

Special fire fighting procedures: Firefighters should wear butyl rubber boots, gloves, and body suit and a self- contained breathing apparatus. If water pollution occurs notify appropriate authorities.

Unusual fire and explosion hazards: May generate toxic or irritating combustion products. Sudden reaction and fire may result if product is mixed with an oxidizing agent. May generate ammonia gases. Personnel in vicinity and down should be evacuated.

6. **ACCIDENTAL RELEASE MEASURES**

Spill response procedures (include employee protection measures): Wear goggles and face shield. Stop the leak, if possible. Ventilate the space involved. Reduce vapor spreading with a water spray. Shut off or remove all ignition sources. Construct a dike to prevent spreading (includes molten liquids until they freeze). Collect run-off water and transfer to drums or tanks for later disposal.

Preparing wastes for disposal (container types, neutralization, etc.): Wear goggles and face shield. If recovery is not feasible admix with dry soil, sand or non-reactive absorbent and place in an appropriate chemical waste container. Transfer to containers by suction, preparatory for later disposal. Place in metal containers for recovery or disposal. Flush area with water spray. Clean-up personnel must be equipped with self contained breathing apparatus and butyl rubber protective clothing. For large spills, recover spilled material with a vacuum truck.

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

7. **HANDLING AND STORAGE**

Keep away from: acids, oxidizers. Keep in cool, dry, ventilated storage and in closed containers. Product may partially freeze with extended exposure to cold temperatures. Product should be stored at temperatures above 40 degrees F.

8. **EXPOSURE CONTROLS AND PERSONAL PROTECTION**

Ventilation and engineering controls : Normal ventilation

Respiratory protection (type) : NIOSH approved dust masks if exposure limit are exceeded.

Eye protection (type) : Safety glasses or goggles
Gloves (specify material) : Impervious gloves
Other clothing and equipment : long sleeved clothing
Work practices, hygienic practices : Normal good housekeeping
Other handling and storage requirements : N/A
Protective measures during maintenance of contaminated equipment : See above.

9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vapor density (air=1)</td>
<td>N/A</td>
</tr>
<tr>
<td>Melting point or range, °F</td>
<td>&gt;32</td>
</tr>
<tr>
<td>Specific gravity</td>
<td>1.1 g/cc</td>
</tr>
<tr>
<td>Boiling point or range, °F</td>
<td>&gt;212</td>
</tr>
<tr>
<td>Solubility in water</td>
<td>soluble</td>
</tr>
<tr>
<td>Evaporation rate (butyl acetate = 1)</td>
<td>N/A</td>
</tr>
<tr>
<td>Vapor pressure, mmHg at 20°C</td>
<td>N/A</td>
</tr>
<tr>
<td>VOC</td>
<td>&lt;1%</td>
</tr>
</tbody>
</table>

Appearance and odor: Yellow Liquid with Ammonia Odor

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

10. STABILITY AND REACTIVITY

Stability : X Stable

Conditions to avoid : Stable at ambient temperatures. Coagulation may occur following freezing, hawing or boiling.

Incompatibility (materials to avoid) : Mineral acids (i.e., sulfuric, phosphoric, etc.). Organic acids (i.e., acetic acid, citric acid etc.). Oxidizing Agents (i.e., per chlorates, nitrates etc.) Sodium or Calcium Hypochlorite. Product slowly corrodes copper, aluminum, zinc and galvanized surfaces. Reaction with peroxides may result in violent decomposition of peroxide possible creating and explosion. A reaction accompanied by large heat release occurs when the product is mixed with acids. Heat generated may be sufficient to cause vigorous boiling creating a hazard due to splashing or splattering of hot material.

Hazardous decomposition products (including combustion products) : (from burning, heating, or reaction with other materials).
Nitrogen oxide can react with water vapors to form corrosive nitric acid (TLV=2ppm). Carbon Monoxide in a fire. Carbon Dioxide in a fire. Ammonia when heated. Nitrogen Oxides in a fire. Irritating and toxic fumes at elevated on decomposition are highly toxic.

Hazardous polymerization : ______ May occur ______X____ Will not occur

Conditions to avoid : N/A

11. TOXICOLOGY INFORMATION

Acute Oral Toxicity (LD50, Rat) > 2000mg/kg

Acute Dermal Toxicity (LD50, Rabbit) > 2000mg/kg

Sensitization has occurred in laboratory animals after repeated doses

12. ECOLOGICAL INFORMATION

Daphnia Magna EC50 > 10mg/liter after 24 hours

Daphnia Magna EC50> 1.21mg/liter after 48 hours

No biodegradable

13. DISPOSAL CONSIDERATIONS

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

14. TRANSPORT INFORMATION

DOT
UN number UN3267
UN proper shipping name Corrosive liquid, basic, organic, n.o.s. (Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-(2-aminomethylethyl)-. omega.-(2-aminomethylethoxy)-, Tetraethylene pentamine)

Transport hazard class(es) 8
Subsidiary class(es) -
Packing group III
Environmental hazards
Marine pollutant No
Special precautions for user: Read safety instructions, SDS and emergency procedures before handling.

Special provisions IB3, T7, TP1, TP28
Packaging exceptions: 154
Packaging non bulk: 203
Packaging bulk: 241

**IATA**
- UN number: UN3267
- UN proper shipping name: Corrosive liquid, basic, organic, n.o.s. (Poly[oxy(methyl-1,2-ethanediyl)], \(\alpha\)-(2-aminomethylethyl)-\(\omega\)-(2-aminomethylethoxy)-, Tetraethylene pentamine)
- Transport hazard class(es): 8
- Subsidiary class(es): -
- Packaging group: III
- Environmental hazards: No
- Labels required: 8
- ERG Code: 8L

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

**IMDG**
- UN number: UN3267
- UN proper shipping name: CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (Poly[oxy(methyl-1,2-ethanediyl)], \(\alpha\)-(2-aminomethylethyl)-\(\omega\)-(2-aminomethylethoxy)-, Tetraethylene pentamine)
- Transport hazard class(es): 8
- Subsidiary class(es): -
- Packaging group: III
- Environmental hazards: No
- Labels required: 8
- 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.

General information: IATA classification is not relevant as the material is not transported by air.
15. REGULATORY INFORMATION

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

16. REGULATORY 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.