



Globally Proven  
Construction Solutions

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# Safety Data Sheet

## 1. PRODUCT IDENTIFICATION

TRADE NAME (as labeled): SPECTRALOCK® PRO Premium 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: 09/07/2024

## 2. HAZARDOUS INGREDIENTS

CHEMICAL NAMES	CAS NUMBER	PERCENT*
Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-(2-aminomethylethyl).omega.-(2-aminomethylethoxy)-Tetraethylenepentamine	9046-10-0	2 – 4
2,4,6Tri(dimethylaminomethyl)phenol	112-57-2	1 - 3
Bis[(dimethylamino)methyl]phenol	90-72-2	< 0.9
1-Methyl-2-pyrrolidone	71074-89-0	< 0.15
1,2-Propanediol	872-50-4	013 - 0.14
	57-55-6	0.05 - 0.09

\*Percentages are listed in weight by weight percentage (w/w%) for liquid and solid ingredients. Gas ingredients are listed in volume by volume percentage (v/v%).



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### 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)

Contact with eyes : Caused severe irritation and pain. Burns of the eye may cause blindness.

Inhalation : 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

Description of First-aid Measures

General : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

Inhalation : Remove to fresh air and keep at rest in a position comfortable for breathing. Immediately call a poison center or doctor/physician.

Skin Contact : Immediately remove contaminated clothing. Immediately flush skin with plenty of water for at least 30 minutes. Get immediate medical advice/attention.

Eye Contact : Immediately rinse with water for at least 30 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.

Ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

Most Important Symptoms and Effects Both Acute and Delayed

General : Skin sensitization. May damage fertility. May damage the unborn child. Causes severe skin burns and eye damage.

Inhalation : May be corrosive to the respiratory tract.

Skin Contact : May cause an allergic skin reaction. Causes severe irritation which will progress to chemical burns.

Eye Contact : Causes permanent damage to the cornea, iris, or conjunctiva.



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Ingestion : May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.

Chronic Symptoms : May damage fertility or the unborn child.

## Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

## 5. FIRE FIGHTING MEASURES

### Extinguishing Media

Suitable Extinguishing Media : Water spray, fog, carbon dioxide (CO<sub>2</sub>), alcohol-resistant foam, or dry chemical.

Unsuitable Extinguishing Media : Do not use a heavy water stream. Use of heavy stream of water may spread fire.

### Special Hazards Arising from the Substance or Mixture

Fire Hazard : Not considered flammable but may burn at high temperatures.

Explosion Hazard : Product is not explosive.

Reactivity : May react exothermically with water releasing heat.

Adding an acid to a base or base to an acid may cause a violent reaction.

### Advice for Firefighters

Precautionary Measures Fire : Exercise caution when fighting any chemical fire.

Firefighting Instructions : Use water spray or fog for cooling exposed containers.

Protection During Firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

Hazardous Combustion Products : Carbon oxides (CO, CO<sub>2</sub>). Nitrogen oxides. Nitrous gases may be produced. Chlorine. Ammonia.

Other Information : Do not allow run-off from fire fighting to enter drains or water courses.

### Reference to Other Sections

Refer to Section 9 for flammability properties.



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## 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

General Measures : Do not get in eyes, on skin, or on clothing. Do not breathe vapor, mist or spray.

For Non-Emergency Personnel

Protective Equipment : Use appropriate personal protective equipment (PPE).

Emergency Procedures : Evacuate unnecessary personnel.

For Emergency Personnel

Protective Equipment : Equip cleanup crew with proper protection.

Emergency Procedures : Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit. Ventilate area.

Environmental Precautions

Prevent entry to sewers and public waters. Avoid release to the environment. Collect spillage.

Methods and Materials for Containment and Cleaning Up

For Containment : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. As an immediate precautionary measure, isolate spill or leak area in all directions.

Methods for Cleaning Up : Clean up spills immediately and dispose of waste safely. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill. Cautiously neutralize spilled liquid.

Reference to Other Sections

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

## 7. HANDLING AND STORAGE

Precautions for Safe Handling

Additional Hazards When Processed : May release corrosive vapors.



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Precautions for Safe Handling

: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe mist, spray, vapors. Do not get in eyes, on skin, or on clothing. Handle empty containers with care because they may still present a hazard.

Hygiene Measures

: Handle in accordance with good industrial hygiene safety procedures.

Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures

: Comply with applicable regulations.

Storage Conditions

: Keep container closed when not in use. Store in a dry, cool place. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials. Store locked up/in a secure area. Store in original container or corrosive resistant and/or lined container.

Incompatible Materials

: N-Nitrosamines, many of which are known to be potent carcinogens, may be formed when the product comes in contact with nitrous acid, nitrites or atmospheres with high nitrous oxide concentrations. Nitrous acid and other nitrosating agents, organic acids (i.e. acetic acid, citric acid, etc.), Mineral acids, Oxidizing agents and Sodium hypochlorite. Products slowly corrodes copper, aluminum, zinc, and galvanized surfaces. Reaction with peroxides may result in violent decomposition of peroxide, possibly creating an explosion.

Specific End Use(s)

Grout.

## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Control Parameters

For substances listed in section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including:



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ACGIH (TLV), AIHA (WEEL), NIOSH (REL), OSHA (PEL), or Canadian provincial governments.

Tetraethylenepentamine (112-57-2)		
USA AIHA	WEEL TWA (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>
USA AIHA	AIHA chemical category	skin notation, Skin sensitizer
1,2-Propanediol (57-55-6)		
USA AIHA	WEEL TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
Ontario	OEL TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> (for assessing the visibility in a work environment where 1,2-Propylene glycol aerosol is present-aerosol only) 155 mg/m <sup>3</sup> (aerosol and vapor)
Ontario	OEL TWA (ppm)	50 ppm (aerosol and vapor)
1-Methyl-2-pyrrolidone (872-50-4)		
USA ACGIH	Biological Exposure Indices (BEI)	100 mg/l Parameter: 5-Hydroxy-N-methyl-2-pyrrolidone - Medium: urine - Sampling time: end of shift
USA AIHA	WEEL TWA (ppm)	10 ppm
USA AIHA	AIHA chemical category	skin notation
Ontario	OEL TWA (mg/m <sup>3</sup> )	400 mg/m <sup>3</sup>
Yukon	OEL STEL (mg/m <sup>3</sup> )	500 mg/m <sup>3</sup>
Yukon	OEL STEL (ppm)	125 ppm
Yukon	OEL TWA (mg/m <sup>3</sup> )	400 mg/m <sup>3</sup>
Yukon	OEL TWA (ppm)	100 ppm

**Appropriate Engineering Controls** : Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

**Personal Protective Equipment** : Gloves. Protective clothing. Protective goggles. Insufficient ventilation: wear respiratory protection. Face shield.



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- Materials for Protective Clothing : Chemically resistant materials and fabrics. Corrosion-proof clothing.
- Hand Protection : Wear protective gloves.
- Eye and Face Protection : Chemical safety goggles and face shield.
- Skin and Body Protection : Wear suitable protective clothing.
- Respiratory Protection : If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory protection.
- Other Information : When using, do not eat, drink or smoke.

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

- Physical State : Liquid
- Appearance : Yellow
- Odor : Ammonia
- Odor Threshold : Not available
- pH : Not available
- Evaporation Rate : Not available
- Melting Point : 0 °C (32 °F)
- Freezing Point : Not available
- Boiling Point : 100 °C (212 °F)
- Flash Point : Not available
- Auto-ignition Temperature : Not available



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Decomposition Temperature	: Not available
Flammability (solid, gas)	: Not applicable
Lower Flammable Limit	: Not available
Upper Flammable Limit	: Not available
Vapor Pressure	: Not available
Relative Vapor Density at 20°C	: Not available
Relative Density	: Not available
Specific Gravity	: 1.1
Solubility	: Water: Soluble
Partition Coefficient: N-Octanol/Water	: Not available
Viscosity	: Not available

## 10. STABILITY AND REACTIVITY

Reactivity	: May react exothermically with water releasing heat. Adding an acid to a base or base to an acid may cause a violent reaction.
Chemical Stability	: Stable under recommended handling and storage conditions (see section 7).
Possibility of Hazardous Reactions Conditions to Avoid	: Hazardous polymerization will not occur. Direct sunlight, extremely high or low temperatures, and incompatible materials.
Incompatible Materials	: N-Nitrosamines, many of which are known to be potent carcinogens, may be formed when the product comes in contact with nitrous acid, nitrites or atmospheres with high nitrous oxide concentrations. Nitrous acid and other nitrosating agents, organic acids (i.e. acetic acid, citric acid, etc.), Mineral acids, Oxidizing agents and Sodium hypochlorite. Products slowly corrodes copper, aluminum,





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zinc, and galvanized surfaces. Reaction with peroxides may result in violent decomposition of peroxide, possibly creating an explosion.

Hazardous Decomposition Products : Thermal decomposition generates : Corrosive vapors.

## 11. TOXICOLOGY INFORMATION

Information on Toxicological Effects – Product

Acute Toxicity (Oral)	: Not classified
Acute Toxicity (Dermal)	: Not classified
Acute Toxicity (Inhalation)	: Not classified
LD50 and LC50 Data	: Not available
Skin Corrosion/Irritation	: Causes severe skin burns and eye damage.
Eye Damage/Irritation	: Causes serious eye damage.
Respiratory or Skin Sensitization	: May cause an allergic skin reaction.
Germ Cell Mutagenicity	: Not classified
Carcinogenicity	: Not classified
Specific Target Organ Toxicity (Repeated Exposure)	: Not classified
Reproductive Toxicity	: May damage fertility or the unborn child.
Specific Target Organ Toxicity (Single Exposure)	: Not classified
Aspiration Hazard	: Not classified
Symptoms/Injuries After Inhalation	: May be corrosive to the respiratory tract.
Symptoms/Injuries After Skin Contact	: May cause an allergic skin reaction. Causes severe irritation which will progress to chemical burns.



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Symptoms/Injuries After Eye Contact : Causes permanent damage to the cornea, iris, or conjunctiva.

Symptoms/Injuries After Ingestion : May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.

Chronic Symptoms : May damage fertility or the unborn child.

Information on Toxicological Effects - Ingredient(s)

LD50 and LC50 Data:

Bis[(dimethylamino)methyl]phenol (71074-89-0)	
ATE US/CA (oral)	500.00 mg/kg body weight
ATE US/CA (dermal)	1,100.00 mg/kg body weight
2,4,6-Tri(dimethylaminomethyl)phenol (90-72-2)	
LD50 Oral Rat	1200 mg/kg
LD50 Dermal Rat	1280 mg/kg
Tetraethylenepentamine (112-57-2)	
LD50 Dermal Rabbit	660 - 1260 mg/kg
ATE US/CA (oral)	500.00 mg/kg body weight
Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-(2-aminomethylethyl)-.omega.-(2-aminomethylethoxy)- (9046-10-0)	
LD50 Oral Rat	2885 mg/kg (Specoes: Sprague Dawley)
1,2-Propanediol (57-55-6)	
LD50 Oral Rat	20 g/kg
LD50 Dermal Rabbit	20800 mg/kg
1-Methyl-2-pyrrolidone (872-50-4)	
LD50 Oral Rat	4150 mg/kg
LD50 Dermal Rabbit	> 5000 mg/kg
LC50 Inhalation Rat	5.1 mg/l/4h

## 12. ECOLOGICAL INFORMATION

Toxicity

Ecology - General: Toxic to aquatic life with long lasting effects.

2,4,6-Tri(dimethylaminomethyl)phenol (90-72-2)	
ErC50 (algae)	84 mg/l



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NOEC Chronic Algae	6.25 g/l
Tetraethylenepentamine (112-57-2)	
LC50 Fish 1	420 mg/l (Exposure time: 96 h - Species: Poecilia reticulata [static])
EC50 Daphnia 1	24.1 mg/l (Exposure time: 48 h - Species: Daphnia magna)
ErC50 (algae)	0.12 mg/l
Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-(2-aminomethylethyl)-.omega.-(2-aminomethylethoxy)-(9046-10-0)	
EC50 Daphnia 1	80 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
NOEC Chronic Crustacea	18 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
1,2-Propanediol (57-55-6)	
LC50 Fish 1	51600 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])
EC50 Daphnia 1	10000 mg/l (Exposure time: 24 h - Species: Daphnia magna)
LC50 Fish 2	41 - 47 ml/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])
EC50 Daphnia 2	1000 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
1-Methyl-2-pyrrolidone (872-50-4)	
LC50 Fish 1	832 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
EC50 Daphnia 1	4897 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 Fish 2	1072 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
NOEC Chronic Crustacea	12.5 mg/l

## Persistence and Degradability

SPECTRALOCK® PRO Premium Grout Part A	
Persistence and Degradability	May cause long-term adverse effects in the environment.



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## Bioaccumulative Potential

SPECTRALOCK® PRO Premium Grout Part A	
Bioaccumulative Potential	Not established.
Tetraethylenepentamine (112-57-2)	
BCF Fish 1	(no bioaccumulation expected)
Log Pow	< 1
Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-(2-aminomethylethyl)-.omega.-(2-aminomethylethoxy)- (9046-10-0)	
Log Kow	0
1,2-Propanediol (57-55-6)	
BCF Fish 1	< 1
Log Pow	-0.92
1-Methyl-2-pyrrolidone (872-50-4)	
Log Pow	-0.46 (at 25 °C)

Mobility in Soil : Not available

Other Adverse Effects

Other Information : Avoid release to the environment.

### 13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste Disposal Recommendations : Dispose of contents/container in accordance with local, regional, national, and international regulations

Additional Information : Container may remain hazardous when empty. Continue to observe all precautions.

Ecology - Waste Materials : Avoid release to the environment. This material is hazardous to the aquatic environment. Keep out of sewers and waterways.

### 14. TRANSPORT INFORMATION

Transport over land ADR/RID  
NOT REGULATED FOR TRANSPORT  
Transport over sea IMDG



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NOT REGULATED FOR TRANSPORT  
Transport by air ICAO/IATA  
NOT REGULATED FOR TRANSPORT

## 15. REGULATORY INFORMATION

Hazard labels : Xi Irritant  
R-phrases : R36/38 Irritating to eyes and skin.  
R43 May cause sensitization by skin contact  
S-phases : S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S28 After contact with skin, wash immediately with plenty of water and soap. S37/39 wear suitable gloves and eye/face protection.

## 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.