



SAFETY DATA SHEET

Version No:02-22
Issue Date: 02-Aug-2022

SPECTRALOCK® Pro Premium Grout

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product Name	SPECTRALOCK® Pro Premium Grout- Part A
Recommended use	It is a multi- component, high strength epoxy grout, which is formulated for joint grouting of tile and stone installations. (For professional use).
Manufacturer/ Importer/ Supplier/ Distributor information	Company Name: LATICRETE MIDDLE EAST LLC Address P.O. Box. 86028, Ras Al Khaimah, United Arab Emirates Telephone: +971 7 244 6396

2. HAZARD (s) IDENTIFICATION

Classification	Skin corrosion	Category 2	H315
	Serious eye damage	Category 1	H318
	Skin Sensitization	Category 1	H317

Label Element	
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Signal Words	Danger
Hazard Statement(s)	H315 - Causes skin irritation.
	H317 - May cause an allergic skin reaction.
	H318 - Causes serious eye damage.
	H411 - Toxic to aquatic life with long lasting effects.
Precautionary Statement(s) Prevention	P272 - Contaminated work clothing should not be allowed out of the workplace.
	P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection.
Precautionary Statement(s) Response	P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
	P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	P310 - Immediately call a POISON CENTER/doctor
Precautionary Statement(s) Storage	P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
Precautionary Statement(s) Disposal	P501 - Dispose of contents/container in accordance with local regulation.
Other hazards which do not result in classification	None known.
Emergency overview	Harmful to aquatic life with long lasting effects. Avoid release to the environment IRRITANT. Irritating to eyes, respiratory system and skin.



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3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures : Information on ingredients / Hazardous components as per EU-CLP Regulation (EC) No. 1272/2008

Name	CAS No	Content (% by wt.)
Poly[oxy(methyl-1,2-1-4 ethanediyl)], .alpha.-(2-aminometh yleth yl)-.omega .-(2- amino methylethoxy)-	9046-10-0	1- 6
Formaldehyde, polymer with N1-(2-aminoethyl)-N2-[2-[(2-aminoethyl)amino]ethyl]-1,2-ethanediamine, 2,2'-[1,4-butanediylbis(oxymethylene)]bis[oxirane], 4,4'-(1-methylethylidene)bis(4,1-phenyleneoxymethylene)bis[oxirane], reaction products with Bu glycidylether and 1-[[2-(2-aminoethyl) ethyl]amino]-3-phenoxy-2-propanol, acetates (salts)	180583-06-6	10 - 35
3,6,9-Triazaundecamethylenediamine	112-57-2	< 2

4. FIRST-AID MEASURES

Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if any discomfort continues
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
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
Ingestion	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.
Personal protection for first-aid responders	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves
Symptoms caused by exposure	Up to now no symptoms are known
Medical attention and special treatment	Provide general supportive measures and treat symptomatically.

5. FIRE-FIGHTING MEASURES

Extinguishing media	
Suitable extinguishing media	Alcohol resistant foam. Water fog. Dry chemical powder. Carbon dioxide (CO ₂).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire
Specific hazards arising from the chemical	May generate ammonia gas. May generate toxic nitrogen oxide gases. Use of water may result in the formation of very toxic aqueous solutions. Do not allow run-off from firefighting to enter drains or water courses. Incomplete combustion may form carbon monoxide. Ammonia gas may be liberated at high temperatures. In case of incomplete combustion an increased formation of oxides of nitrogen (NO _x) is to be expected. Downwind personnel must be evacuated. Burning produces noxious and toxic fumes.
Special protective equipment and precautions for fire fighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Firefighting equipment/instructions	Wear self-contained breathing apparatus for firefighting if necessary. Avoid contact with skin. A face shield should be worn. Do not allow run-off from firefighting to enter drains or water courses.
General fire hazards	No unusual fire or explosion hazards noted.



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6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained.

For emergency responders

wearing appropriate protective clothing.

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

Methods and materials for containment and cleaning up

Large Spills: Pick up with suitable appliance and dispose of. Pack in tightly closed containers for disposal..

Small Spills: Pick up with suitable appliance and dispose off.

Other issues relating to spills and releases

Never return spills in original containers for re-use. For waste disposal, see Section 13 of the SDS. Clean up in accordance with all applicable regulations.

7. HANDLING AND STORAGE

Precautions for safe handling

Use personal protective equipment.

Do not use sodium nitrite or other nitrosating agents in formulations containing this product. Suspected cancer-causing nitrosamines could be formed.

Avoid contact with skin and eyes.

Emergency showers and eye wash stations should be readily accessible.

Adhere to work practice rules established by government regulations.

Avoid contact with eyes.

Hygiene measures: Provide readily accessible eye wash stations and safety showers.

General protective measures: Discard contaminated leather articles.

Provide readily accessible eye wash stations and safety showers.

Wash hands at the end of each work shift and before eating, smoking or using the toilet.

Conditions for safe storage, including any incompatibilities

Containers should be stored tightly sealed in a dry place. Do not store near acids.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

No data

Occupational exposure limits

No data available

Biological limit values

No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls

Good general ventilation should be used. Provide eyewash station.

Individual protection measures, for example personal protective equipment (PPE)

Eye/face protection

Wear safety glasses with side shields (or goggles). Face-shield. Wear a full-face respirator, if needed



Skin protection Hand protection

Wear appropriate chemical resistant gloves.



Others

Body protection must be chosen based on level of activity and exposure.

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment

Hygiene measures

Always observe good personal hygiene measures, such as washing after handling the



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

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Viscous Liquid
Colour	Amber-Yellow
Odor	Typical
pH	Not applicable
Melting point/ freezing point	Not applicable
Initial boiling point and boiling range	>100°C
Flash point	Non flammable
Evaporation rate	Not applicable
Flammability (solid, gas)	Not applicable
Vapor pressure	Not applicable
Relative density	1.1
Solubility (water)	Dispersible in water
Auto-ignition temperature	Not available

10. STABILITY AND REACTIVITY

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport. Corrosive to certain metals. Copper Aluminum. Zinc
Chemical stability	Material is stable under normal conditions
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Heat, flame
Incompatible materials	CAUTION! 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. sodium hypochlorite, Oxidizing agents Reaction with peroxides may result in violent decomposition of peroxide possibly creating an explosion. Product slowly corrodes copper, aluminum, zinc and galvanized surfaces
Hazardous decomposition products	Nitric acid, Ammonia, Nitrogen oxides (NOx) Nitrogen oxide can react with water vapors to form corrosive nitric acid. Carbon dioxide, carbon monoxide, nitrogen oxides

11. TOXICOLOGICAL INFORMATION

Information on possible routes of exposure Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquid.

Acute toxicity/ Effects

Oral	May cause discomfort if swallowed. LD50, Species: Rat, Dose: 2.1 g/kg,
Inhalation	No data available
Dermal	LD50 Species: Rat, Dose: 2.0 g/kg, No death observed
Eye	Causes eye irritation on direct contact
Sensitization	May cause sensitization by skin contact

Chronic Toxicity /Effects



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Carcinogenicity	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA
Repeated dose toxicity	No data available
Reproductive toxicity	No data available
Aspiration hazard	Not classified
Other Information	Do not allow to enter soil, waterways or waste water canal.

12. ECOLOGICAL INFORMATION

Aquatic-toxicity	Harmful to aquatic life with long lasting effects
Persistence and degradability	No data is available on the degradability of this product
Bio accumulative potential	No data available.
Mobility in soil	No data available.
Additional information	Do not allow to enter soil, waterways or waste water canal.

13. DISPOSAL CONSIDERATIONS

Disposal methods	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local / regional/ national/ international regulations.
Residual waste	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	Completely emptied packaging can be given for recycling.

14. TRANSPORT INFORMATION

IMDG	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Tetraethylenepentamine) Class : 9 Packing group : III
IATA/ ICAO	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Tetraethylenepentamine) Class : 9 Packing group : III

15. REGULATORY INFORMATION

Safety, health and environmental regulations

National regulations	Followed EINECS : All ingredients listed, exempt or notified (ELINCS). TSCA : All chemical substances in this material are included on or exempted from listing on the TSCA Inventory of Chemical Substances. AICS : All ingredients listed, exempt or notified.
International regulations	IECSC : All ingredients listed or exempt. KECL : All ingredients listed, exempt or notified. PICCS : All ingredients listed, exempt or notified. DSL : All ingredients listed or exempt.

16. OTHER INFORMATION

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1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product Name SPECTRALOCK® Pro Premium Grout - **Part B**
Recommended use It is a multi- component, high strength epoxy grout, which is formulated for joint grouting of tile and stone installations. (For professional use).
Manufacturer/ Importer/ Supplier/ Distributor information Company Name: LATICRETE MIDDLE EAST LLC
Address P.O. Box. 86028, Ras Al Khaimah, United Arab Emirates
Telephone: +971 7 244 6396

2. HAZARD (s) IDENTIFICATION

Classification Skin irritation - Category 2 - H315
Eye irritation - Category 2 - H319
Skin sensitization - Category 1 - H317
Chronic aquatic toxicity - Category 2 - H411

Label Element



Signal Words

WARNING

Hazard Statement(s)

H315 Causes skin irritation
H317 - May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H411 Toxic to aquatic life with long lasting effects

Precautionary Statement(s)
Prevention

P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.
P273 Avoid release to the environment.
P280 Wear protective gloves/ eye protection/ face protection.

Precautionary Statement(s)
Response

P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
P337 + P313 If eye irritation persists: Get medical advice/ attention.
P362 + P364 Take off contaminated clothing and wash it before reuse

Precautionary Statement(s)
Storage

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

Precautionary Statement(s)
Disposal

P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 - Immediately call a POISON CENTER/doctor.

Other hazards which do not result in classification

None known.

Supplemental information

EUH205 Contains epoxy constituents. May produce an allergic reaction.
Contains Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight <= 700); Reaction product: Bisphenol F-(epichlorohydrin); epoxy resin; oxirane, mono[(C12-14-alkyloxy)methyl]derivs

Emergency overview

IRRITANT. Irritating to eyes, respiratory system and skin.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures : Information on ingredients / Hazardous components as per EU-CLP Regulation (EC) No. 1272/2008

Name	CAS No	Content (% by wt.)
bis-[4-(2,3-epoxipropoxy)phenyl]propane	1675-54-3	40-55
Reaction product:Bisphenol F-(epichlorohydrin); epoxy resin	9003-36-5	5-12
oxirane, mono[(C12-14-alkyloxy)methyl]derivatives	68609-97-2	5 -15



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4. FIRST-AID MEASURES

Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if any discomfort continues
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
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
Ingestion	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.
Personal protection for first-aid responders	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves
Symptoms caused by exposure	Up to now no symptoms are known
Medical attention and special treatment	Provide general supportive measures and treat symptomatically.

5. FIRE-FIGHTING MEASURES

Extinguishing media	
Suitable extinguishing media	Water fog or fine spray. Dry chemical fire extinguishers. Carbon dioxide fire extinguishers. Foam. Alcohol resistant foams (ATC type) are preferred. General purpose synthetic foams (including AFFF) or protein foams may function, but will be less effective. Water fog, applied gently may be used as a blanket for fire extinguishment.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire
Specific hazards arising from the chemical	During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating. Combustion products may include and are not limited to: Phenolics. Carbon monoxide. Carbon dioxide.
Special protective equipment and precautions for fire fighters	Wear positive-pressure self-contained breathing Apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots, and gloves). Avoid contact with this material during fire fighting operations. If contact is likely, change to full chemical resistant fire fighting clothing with self-contained breathing apparatus. If this is not available, wear full chemical resistant clothing with self-contained breathing apparatus and fight fire from a remote location. For protective equipment in post-fire or non-fire clean-up situations, refer to the relevant sections.
Firefighting equipment/instructions	Wear self-contained breathing apparatus for firefighting if necessary. Avoid contact with skin. A face shield should be worn. Do not allow run-off from firefighting to enter drains or water courses.
General fire hazards	Container may rupture from gas generation in a fire situation. Violent steam generation or eruption may occur upon application of direct water stream to hot liquids. Dense smoke is emitted when burned without sufficient oxygen.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	
For non-emergency personnel	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained.
For emergency responders	Wear appropriate protective clothing.



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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

Methods and materials for containment and cleaning up

Large Spills: Pick up with suitable appliance and dispose of. Pack in tightly closed containers for disposal..

Small Spills: Pick up with suitable appliance and dispose off.

Other issues relating to spills and releases

Never return spills in original containers for re-use. For waste disposal, see Section 13 of the SDS. Clean up in accordance with all applicable regulations.

7. HANDLING AND STORAGE

Precautions for safe handling

Use personal protective equipment.
Do not use sodium nitrite or other nitrosating agents in formulations containing this product. Suspected cancer-causing nitrosamines could be formed.
Avoid contact with skin and eyes.
Emergency showers and eye wash stations should be readily accessible.
Adhere to work practice rules established by government regulations.
Avoid contact with eyes.
Hygiene measures: Provide readily accessible eye wash stations and safety showers.
General protective measures: Discard contaminated leather articles.
Provide readily accessible eye wash stations and safety showers.
Wash hands at the end of each work shift and before eating, smoking or using the toilet.
Storage temperature: <= 40 °C.
Containers should be stored tightly sealed in a dry place. Do not store near acids.

Conditions for safe storage, including any incompatibilities

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Follow standard monitoring procedures.

Occupational exposure limits

No exposure limits noted for ingredient(s).

Biological limit values

No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls

Good general ventilation should be used. Provide eyewash station.

Individual protection measures, for example personal protective equipment (PPE)

Eye/face protection

Wear safety glasses with side shields (or goggles). Face-shield. Wear a full-face respirator, if needed



Skin protection Hand protection

Wear appropriate chemical resistant gloves. Standard EN374: Protective gloves against chemicals and micro-organisms.



Others

Body protection must be chosen based on level of activity and exposure.

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment

Hygiene measures

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants



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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Viscous Liquid
Colour	Off white to yellow
Odor	Typical
pH	Not applicable
Melting point/ freezing point	Not applicable
Initial boiling point and boiling range	100°C
Flash point	Not flammable
Evaporation rate	Not applicable
Flammability (solid, gas)	Not applicable
Vapor pressure	Not applicable
Relative density	1.06
Solubility (water)	Dispersible in water
Auto-ignition temperature	Not available

10. STABILITY AND REACTIVITY

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Heat, flame
Incompatible materials	Strong acids.
Hazardous decomposition products	Carbon dioxide, carbon monoxide, nitrogen oxides, phenolics.

11. TOXICOLOGICAL INFORMATION

Information on possible routes of exposure	Inhalation: No adverse effects due to inhalation are expected. Skin contact: Irritating to skin. May cause an allergic skin reaction. Eye contact: Irritating to eyes. Ingestion : May cause discomfort if swallowed.
Acute toxicity/ Effects	May cause discomfort if swallowed.
Oral	Very low toxicity if swallowed. Harmful effects not anticipated from swallowing small amounts. As product: Single dose oral LD50 has not been determined. Based on information for component(s): LD50, Rat, > 10,000 mg/kg Estimated..
Inhalation	Excessive exposure may cause irritation to upper respiratory tract (nose and throat). The LC50 has not been determined.
Dermal	Prolonged skin contact is unlikely to result in absorption of harmful amounts. As product: The dermal LD50 has not been determined. Based on information for Component (s): LD50, Rabbit, > 5,000 mg/kg Estimated.
Eye	Causes eye irritation on direct contact
Sensitization	A component in this mixture has caused allergic skin reactions in humans. Contains component(s) which have caused allergic skin sensitization in guinea pigs. Contains component(s) which have demonstrated the potential for contact allergy in mice
Chronic Toxicity /Effects	
Carcinogenicity	Many studies have been conducted to assess the potential carcinogenicity of diglycidyl ether of bisphenol A (DGEBA). Indeed, the most recent review of the available data by



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Teratogenicity	the International Agency for Research on Cancer (IARC) has concluded that DGEBA is not classified as a carcinogen. Although some weak evidence of carcinogenicity has been reported in animals, when all of the data are considered, the weight of evidence does not show that DGEBA is carcinogenic.
Reproductive toxicity	Resins based on the diglycidyl ether of bisphenol A (DGEBA) did not cause birth defects or other adverse effects on the fetus when pregnant rabbits were exposed by skin contact, the most likely route of exposure, or when pregnant rats or rabbits were exposed orally. Contains component(s) which did not cause birth defects in laboratory animals
Aspiration hazard	In animal studies, resins based on the diglycidyl ether of bisphenol A (DGEBA) have been shown not to interfere with reproduction Based on physical properties, not likely to be an aspiration hazard.
Other Information	Mutagenicity: Contains component(s) which were positive in in vitro genetic toxicity studies. Contains component(s) which were negative in animal genetic toxicity studies.

12. ECOLOGICAL INFORMATION

Eco-toxicity	<p>bis-[4-(2,3-epoxipropoxy)phenyl]propane</p> <p>Acute toxicity to fish Material is toxic to aquatic organisms (LC50/EC50/IC50 between 1 and 10 mg/L in the most sensitive species). LC50, Oncorhynchus mykiss (rainbow trout), semi-static test, 96 Hour, 2 mg/l Acute toxicity to aquatic invertebrates EC50, Daphnia magna (Water flea), static test, 48 Hour, 1.8 mg/l Acute toxicity to algae/aquatic plants ErC50, Scenedesmus capricornutum (fresh water algae), static test, 72 Hour, Growth rate inhibition, 11 mg/l Toxicity to bacteria IC50, Bacteria, 18 Hour, > 42.6 mg/l Chronic toxicity to aquatic invertebrates MATC (Maximum Acceptable Toxicant Level), Daphnia magna (Water flea), semi-static test, 21 d, number of offspring, 0.55 mg/l</p> <p>Reaction product: Bisphenol F-(epichlorohydrin); epoxy resin</p> <p>Acute toxicity to fish Material is toxic to aquatic organisms (LC50/EC50/IC50 between 1 and 10 mg/L in the most sensitive species). LC50, Freshwater fish, 96 Hour, 2.54 mg/l Acute toxicity to aquatic invertebrates EC50, Daphnia magna, Static, 48 Hour, > 1,000 mg/l, OECD Test Guideline 202 or Equivalent Acute toxicity to algae/aquatic plants EC50, Selenastrum capricornutum (green algae), Static, 72 Hour, > 1.8 mg/l, OECD Test Guideline 201 Toxicity to bacteria activated sludge, Static, 3 Hour, Other, > 100 mg/l Chronic toxicity to aquatic invertebrates NOEC, Daphnia magna, semi-static test, 21 d, number of offspring, 0.3 mg/l oxirane, mono[(C12-14-alkyloxy)methyl]derivs Acute toxicity to fish Material is not classified as dangerous to aquatic organisms (LC50/EC50/IC50/LL50/EL50 greater than 100 mg/L in most sensitive species). LC50, Oncorhynchus mykiss (rainbow trout), static test, 96 Hour, > 5,000 mg/l LC50, Lepomis macrochirus (Bluegill sunfish), static test, 96 Hour, 1,800 mg/l, Other guidelines Acute toxicity to algae/aquatic plants EbC50, Pseudokirchneriella subcapitata (green algae), 72 Hour, Growth inhibition (cell density reduction), 843 mg/l NOEC, Pseudokirchneriella subcapitata (green algae), 72 Hour, Growth inhibition (cell density reduction), 500 mg/l Toxicity to bacteria</p>
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Persistence and degradability

EC50, activated sludge, static test, 3 Hour, Respiration rates., > 100 mg/l

bis-[4-(2,3-epoxipropoxy)phenyl]propane

Biodegradability: Based on stringent OECD test guidelines, this material cannot be considered as readily biodegradable; however, these results do not necessarily mean that the material is not biodegradable under environmental conditions.

10-day Window: Not applicable

Biodegradation: 12 %

Exposure time: 28 d

Method: OECD Test Guideline 302B or Equivalent

Reaction product: Bisphenol F-(epichlorohydrin); epoxy resin

Biodegradability: Material is not readily biodegradable according to OECD/EEC guidelines.

Biodegradation: 0 %

Exposure time: 28 d

oxirane, mono[(C12-14-alkyloxy)methyl]derivs

Biodegradability: Material is readily biodegradable. Passes OECD test(s) for ready biodegradability.

10-day Window: Pass

Biodegradation: 87 %

Exposure time: 28 d

Method: OECD Test Guideline 301F or Equivalent

Bio accumulative potential

bis-[4-(2,3-epoxipropoxy)phenyl]propane

Bioaccumulation: Bioconcentration potential is moderate (BCF between 100 and 3000 or Log Pow between 3 and 5).

Partition coefficient: n-octanol/water (log Pow): 3.242 at 25 °C Estimated.

Reaction product: Bisphenol F-(epichlorohydrin); epoxy resin

Bioaccumulation: Bioconcentration potential is moderate (BCF between 100 and 3000 or Log Pow between 3 and 5).

Partition coefficient: n-octanol/water(log Pow): 3.6 OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method)

Bioconcentration factor (BCF): 150 Estimated.

oxirane, mono[(C12-14-alkyloxy)methyl]derivs

Bioaccumulation: Bioconcentration potential is moderate (BCF between 100 and 3000 or Log Pow between 3 and 5). No relevant data found.

Partition coefficient: n-octanol/water(log Pow): 3.77 at 20 °C OECD Test Guideline 107 or Equivalent

Bioconcentration factor (BCF): 160 Fish Estimated.

Mobility in soil

bis-[4-(2,3-epoxipropoxy)phenyl]propane

Potential for mobility in soil is low (Koc between 500 and 2000).

Given its very low Henry's constant, volatilization from natural bodies of water or moist soil is not expected to be an important fate process

Partition coefficient (Koc): 1800 - 4400 Estimated.

Reaction product: Bisphenol F-(epichlorohydrin); epoxy resin

Potential for mobility in soil is slight (Koc between 2000 and 5000).

Partition coefficient (Koc): 4460 Estimated.

oxirane, mono[(C12-14-alkyloxy)methyl]derivs

Expected to be relatively immobile in soil (Koc > 5000).

Partition coefficient (Koc): > 5000 OECD 121: HPLC Method

Additional information

bis-[4-(2,3-epoxipropoxy)phenyl]propane

This substance is not on the Montreal Protocol list of substances that deplete the ozone



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layer. Reaction product: Bisphenol F-(epichlorohydrin); epoxy resin
This substance is not on the Montreal Protocol list of substances that deplete the ozone layer. oxirane, mono[(C12-14-alkyloxy)methyl]derivs
This substance is not on the Montreal Protocol list of substances that deplete the ozone layer.
Do not allow to enter soil, waterways or waste water canal..

13. DISPOSAL CONSIDERATIONS

Disposal methods	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local / regional/ national/ international regulations.
Residual waste	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	Completely emptied packaging can be given for recycling.

14. TRANSPORT INFORMATION

IMDG	UN 3082 Environmentally hazardous substance, liquid, n.o.s. (epoxy resin) Class : 9 Packing group : III (EmS) : F-A, S-F
IATA/ ICAO	UN 3082 Environmentally hazardous substance, liquid, n.o.s. (epoxy resin) Class : 9 Packing group : III Environmental hazards: Yes

15. REGULATORY INFORMATION

Safety, health and environmental regulations

National regulations	Followed EINECS : All ingredients listed, exempt or notified (ELINCS). TSCA : All chemical substances in this material are included on or exempted from listing on the TSCA Inventory of Chemical Substances.
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16. OTHER INFORMATION

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1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product Name	SPECTRALOCK® Pro Premium Grout - Part C
Recommended use	It is a multi-component, high strength epoxy grout, which is formulated for joint grouting of tile and stone installations. (For professional use).
Manufacturer/ Importer/ Supplier/ Distributor information	Company Name: LATICRETE MIDDLE EAST LLC Address P.O. Box. 86028, Ras Al Khaimah, United Arab Emirates Telephone: +971 7 244 6396

2. HAZARD (s) IDENTIFICATION

Classification	Skin irritation - Category 2 Eye irritation - Category 2 Skin sensitization - Category 1
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Label Element	
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Signal Words	DANGER
Hazard Statement(s)	H315 Causes skin irritation H319 Causes serious eye irritation. H335 May cause respiratory irritation H373 May cause damage to organs through prolonged or repeated exposure
Precautionary Statement(s) Prevention	P260 Do not breathe dust/fume/gas/mist/vapors/spray. P273 Avoid release to the environment. P280 Wear protective gloves/ eye protection/ face protection.
Precautionary Statement(s) Response	P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention. P305 + P351 + P338. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P362 + P364 Take off contaminated clothing and wash it before reuse
Precautionary Statement(s) Storage	P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
Precautionary Statement(s) Disposal	P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 - Immediately call a POISON CENTER/doctor.
Other hazards which do not result in classification	None known.
Supplemental information	Nil
Emergency overview	IRRITANT. Irritating to eyes, respiratory system and skin.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures : Information on ingredients / Hazardous components as per EU-CLP Regulation (EC) No. 1272/2008

Name	CAS No	Content (% by wt.)
Silica filler	14808-60-7	90 - 95%
Titanium dioxide	13463-67-7	0 - 5%
Black pigment	1317-61-9	0 -1%
Red pigment	1309-37-1	0 -1%
Yellow pigment	1309-33-7	0 -1%
Blue pigment	57455-37-5	0 -1%



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4. FIRST-AID MEASURES

Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if any discomfort continues
Skin contact	Wash off with soap and water. Get medical attention if irritation develops and persists
Eye contact	Rinse with water. Get medical attention if irritation develops and persists.
Ingestion	Coughing. Dust may irritate the eyes and the respiratory system
Personal protection for first-aid responders	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves
Symptoms caused by exposure	Up to now no symptoms are known
Medical attention and special treatment	Provide general supportive measures and treat symptomatically.

5. FIRE-FIGHTING MEASURES

Extinguishing media	
Suitable extinguishing media	Use fire-extinguishing media appropriate for surrounding materials.
Unsuitable extinguishing media	None known.
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for fire fighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Firefighting equipment/instructions	Wear self-contained breathing apparatus for firefighting if necessary. Avoid contact with skin. A face shield should be worn. Do not allow run-off from fire fighting to enter drains or water courses.
General fire hazards	No unusual fire or explosion hazards noted

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	
For non-emergency personnel	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained.
For emergency responders	wearing appropriate protective clothing.
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
Methods and materials for containment and cleaning up	Large Spills: Pick up with suitable appliance and dispose of. Pack in tightly closed containers for disposal. Small Spills: Pick up with suitable appliance and dispose off.
Other issues relating to spills and releases	Never return spills in original containers for re-use. For waste disposal, see Section 13 of the SDS. Clean up in accordance with all applicable regulations.

7. HANDLING AND STORAGE




Precautions for safe handling	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep formation of airborne dusts to a minimum. Provide appropriate exhaust ventilation at places where dust is formed. Do not breathe dust. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Provide readily accessible eye wash stations and safety showers. Wash hands at the end of each work shift and before eating, smoking or using the toilet.
Conditions for safe storage, including any incompatibilities	Containers should be stored tightly sealed in a dry place.



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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters	Follow standard monitoring procedures.	
Occupational exposure limits	Titanium dioxide: PEL-15 mg/m ³ (total dust) Silica TWA- 0.3 mg/m ³ (total dust)	
Biological limit values	No biological exposure limits noted for the ingredient(s).	
Appropriate engineering controls	Good general ventilation should be used. Provide eyewash station.	
Individual protection measures, for example personal protective equipment (PPE)		
Eye/face protection	Wear safety glasses with side shields (or goggles). Face-shield. Wear a full-face respirator, if needed	 
Skin protection Hand protection	Wear appropriate gloves	
Others	Body protection must be chosen based on level of activity and exposure.	
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment	
Hygiene measures	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants	

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Powder
Colour	Various
Odor	Nil
pH	Not applicable
Melting point/ freezing point	Not applicable
Initial boiling point and boiling range	Not applicable
Flash point	Not applicable
Evaporation rate	Not applicable
Flammability (solid, gas)	Not applicable
Vapor pressure	Not applicable
Relative density	2.3
Solubility (water)	Insoluble
Auto-ignition temperature	Not available

10. STABILITY AND REACTIVITY

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Contact with in compatible material
Incompatible materials	Strong acids.
Hazardous decomposition products	oxides



11. TOXICOLOGICAL INFORMATION

Information on possible routes of exposure	Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquid.
Acute toxicity/ Effects	May cause discomfort if swallowed.
Oral	Very low toxicity if swallowed. Harmful effects not anticipated from swallowing small amounts.
Inhalation	Not a sensitizer
Dermal	Not a sensitizer
Eye	Causes eye irritation on direct contact
Sensitization	Not a sensitizer
Chronic Toxicity /Effects	
Carcinogenicity	May cause cancer. In 1997, IARC (the International Agency for Research on Cancer) concluded that crystalline silica inhaled from occupational sources can cause lung cancer in humans. However in making the overall evaluation, IARC noted that "carcinogenicity was not detected in all industrial circumstances studied. Carcinogenicity may be dependent on inherent characteristics of the crystalline silica or on external factors affecting its biological activity or distribution of its polymorphs." (IARC Monographs on the evaluation of the carcinogenic risks of chemicals to humans, Silica, silicates dust and organic fibres, 1997, Vol. 68, IARC, Lyon, France.) In June 2003, SCOEL (the EU Scientific Committee on Occupational Exposure Limits) concluded that the main effect in humans of the inhalation of respirable crystalline silica dust is silicosis. "There is sufficient information to conclude that the relative risk of lung cancer is increased in persons with silicosis (and, apparently, not in employees without silicosis exposed to silica dust in quarries and in the ceramic industry). Therefore, preventing the onset of silicosis will also reduce the cancer risk..." (SCOEL SUM Doc 94-final, June 2003) According to the current state of the art, worker protection against silicosis can be consistently assured by respecting the existing regulatory occupational exposure limits. Occupational exposure to respirable dust and respirable crystallinesilica should be monitored and controlled. Based on available data, the classification criteria are not met.
Reproductive toxicity	Based on physical properties, not likely to be an aspiration hazard.
Aspiration hazard	
Other Information	Nil.

12. ECOLOGICAL INFORMATION

Eco-toxicity	Not expected to be harmful to aquatic organisms.
Persistence and degradability	The product contains inorganic compounds which are not biodegradable.
Bio-accumulative potential	The product is not expected to bio-accumulate.
Mobility in soil	The product is not mobile in soil.
Additional information	Do not allow to enter soil, waterways or waste water canal.

13. DISPOSAL CONSIDERATIONS

Disposal methods	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local / regional/ national/ international regulations.
Residual waste	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	Completely emptied packaging can be given for recycling.



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14. TRANSPORT INFORMATION

IMDG	Not regulated as dangerous goods.
IATA/ICAO	Not regulated as dangerous goods.

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