

According to the Hazardous Substances and New Organisms Act (1996) Date of Issue: 23/07/2024

Version: 1.0

# SECTION 1: IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

1.1. **Product Name Product Form:** Mixture Product Name: 4-XLT

Product Code: 0259-0050-21 **Other Names** 1.2.

No additional information available 1.3. **Recommended Use** Adhesive. For professional use only

1.4. **Company Name, Address And Contact Details** 

Company LATICRETE NEW ZEALAND LIMITED

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Bethany, CT 06524 1025

T (203)-393-0010

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1440

1.5. **Emergency Phone Number** 

**Emergency Number** : For Chemical Emergency call VelocityEHS day or night:

(800)255-3924 (North America)

+1 (813)248-0585 (International - collect calls accepted)

## **SECTION 2: HAZARDS IDENTIFICATION**

#### 2.1. **Classification Of The Substance Or Mixture**

### **GHS-NZ** classification

H315 Skin corrosion/irritation, Category 2 H318 Serious eye damage/eye irritation, Category 1 H317 Skin sensitisation, Category 1 H350 Carcinogenicity, Category 1 H335 Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation H372

Specific target organ toxicity - Repeated exposure, Category 1

#### 2.2. **GHS Label Elements, Including Precautionary Statements**

**GHS-NZ Labeling** 

**Hazard Pictograms (GHS-NZ)** 







Signal Word (GHS-NZ) : Danger

**Hazard Statements (GHS-NZ)** : H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction.

H318 - Causes serious eye damage.

H335 - May cause respiratory irritation. H350 - May cause cancer (inhalation).

H372 - Causes damage to organs (respiratory system) through prolonged or repeated

exposure (inhalation).

**Precautionary Statements (GHS-NZ)** : P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood.

P260 - Do not breathe dust.

P264 - Wash hands, forearms and face thoroughly after handling.

23/07/2024 EN (English) 1/12 P270 - Do not eat, drink or smoke when using this product.

P271 - Use only outdoors or in a well-ventilated area.

P272 - Contaminated work clothing should not be allowed out of the workplace.

P280 - Wear protective clothing, eye protection, face protection.

P302+P352 - IF ON SKIN: Wash with plenty of water.

P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308+P313 - IF exposed or concerned: Get medical advice/attention.

P310 - Immediately call a POISON CENTER or doctor.

P312 - Call a POISON CENTER or doctor if you feel unwell.

P314 - Get medical advice/attention if you feel unwell.

P321 - Specific treatment (see supplemental first aid instruction on this label).

P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.

P362+P364 - Take off contaminated clothing and wash it before reuse.

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

P405 - Store locked up.

P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

## 2.3. Other hazards which do not result in classification

Exposure may aggravate pre-existing eye, skin, or respiratory conditions.

## 2.4. Unknown Acute Toxicity (GHS-NZ)

No additional information available

# **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

## 3.1. Substance

Not applicable

# 3.2. Mixture

Name	Synonyms	Product Identifier	% *	GHS Ingredient Classification
Quartz	Quartz (SiO2) / Silica, crystalline, quartz / Crystalline silica, quartz / .alphaQuartz / Silica, crystalline, .alpha quartz / QUARTZ / Crystalline silica in the form of quartz / Quartz, silica / Quartz (respirable fraction) / Silica dust / Silica, crystallinealpha.quartz / Silica, .alpha quartz / Silicon dioxide / Silica, quartz / Silica, crystalline / Quartz (crystalline silica) / Silica dust, crystalline / QUARTZ POWDER / Silica, crystalline (quartz)	(CAS-No.) 14808-60-7	≤ 66	Carc. 1, H350 STOT SE 3, H335 STOT RE 1, H372
Cement, portland, chemicals	Portland cement / Silicate, portland cement / Cement (Portland) / Cement kiln dust / Cement Portland	(CAS-No.) 65997-15-1	30 - 60	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 STOT SE 3, H335
Limestone	Chalk / Limestone (A noncombustible solid characteristic of sedimentary rock. It consists primarily of calcium carbonate.) / Natural calcium carbonate / Marble / Calcium carbonate / Limestone (sedimentary rock) / Calcite / Limestone ground / Acetate, 4-	(CAS-No.) 1317-65-3	≤ 7.5	Not classified.

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	methyl-2-propyl-2H- tetrahydropyran-4-yl / Ground limestone			
Kaolin	KAOLIN / Kaolin clay / Hydrated aluminium silicate / Hydrated silicates of aluminium / Hydrous alum silicates	(CAS-No.) 1332-58-7	< 3	Not classified.
Calcium sulfate hydrate	Gypsum	(CAS-No.) 13397-24-5	1.5 – 2.1	Not classified.
Sepiolite (Mg2H2(SiO3)3.xH2O)	Sepiolite / Sepiolite (Mg4(OH)2(Si2O5)3.6H2O) / Sepiolite (Mg2H2(SiO3)3.6H2O) / SEPIOLITE	(CAS-No.) 63800-37-3	< 1	Not classified.

Full text of H-statements: see section 16

# **SECTION 4: FIRST AID MEASURES**

## 4.1. Description of Necessary 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 60 minutes. Get immediate medical advice/attention.

**Eye Contact:** Immediately rinse with water for at least 60 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.

# 4.2. Most Important Symptoms/Effects, Acute and Delayed

**General:** Causes damage to organs (lung/respiratory system) through prolonged or repeated exposure (Inhalation). May cause cancer (Inhalation). May cause respiratory irritation. Skin sensitisation. Causes serious eye damage. Causes skin irritation. **Inhalation:** Irritation of the respiratory tract and the other mucous membranes. May be corrosive to the respiratory tract. The lungs become very inflamed and may fill with fluid, causing severe shortness of breath and low blood oxygen levels. Inflammation, scarring, and symptoms progress faster in accelerated silicosis than in simple silicosis. Progressive massive fibrosis may occur in simple or accelerated silicosis, but is more common in the accelerated form. Progressive massive fibrosis results from severe scarring and leads to the destruction of normal lung structures.

Skin Contact: Concrete may cause dry skin, discomfort, irritation, severe burns, and dermatitis. Exposure of sufficient duration to wet concrete can cause serious, potentially irreversible damage to skin, eye, respiratory and digestive tracts due to chemical (caustic) burns, including third degree burns. A skin exposure may be hazardous even if there is no pain or discomfort. Unhardened concrete is capable of causing dermatitis by irritation and allergy. Skin affected by dermatitis may include symptoms such as, redness, itching, rash, scaling, and cracking. Irritant dermatitis is caused by the physical properties of concrete including alkalinity and abrasion. Allergic contact dermatitis is caused by sensitization to hexavalent chromium (chromate) present in concrete. The reaction can range from a mild rash to severe skin ulcers. Persons already sensitized may react to the first contact with wet concrete. Others may develop allergic dermatitis after years of repeated contact with wet concrete. May cause an allergic skin reaction.

**Eye Contact:** Concrete may cause immediate or delayed irritation or inflammation. Eye contact with wet concrete can cause moderate eye irritation, chemical burns and blindness. Eye exposures require immediate first aid and medical attention to prevent significant damage to the eye.

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

Chronic Symptoms: Causes damage to organs (lungs, respiratory system) through prolonged or repeated exposure (Inhalation). May cause cancer by inhalation. This product contains crystalline silica. Long term exposure to respirable crystalline silica results in a significant risk of developing silicosis; a seriously disabling and fatal lung disease, and other non-malignant respiratory disease, lung cancer, kidney effects, and immune system effects. Pulmonary function may be reduced and pre-existing lung diseases such as: emphysema or asthma may be aggravated by inhalation exposure to dusts. Smoking aggravates the effects of exposure. Inhalation may lead to a progressive massive fibrosis which may be accompanied by right heart enlargement, heart failure, pulmonary failure of the lung and susceptibility to pulmonary tuberculosis.

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<sup>\*</sup>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%)

# 4.3. Indication of Immediate Medical Attention and Special Treatment Needed, If Necessary

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand. Treatment will be based on severity and prognosis of disease.

## **SECTION 5: FIRE-FIGHTING MEASURES**

# 5.1. Extinguishing Media

Suitable Extinguishing Media: Use extinguishing media appropriate for surrounding fire.

Unsuitable Extinguishing Media: None known.

## 5.2. Specific Hazards Arising From the Chemical

Fire Hazard: Not flammable.

Explosion Hazard: Product is not explosive.

**Reactivity:** Portland Cement reacts slowly with water forming hydrated compounds, releasing heat and producing a strong alkaline solution until reaction is substantially complete. Silicates dissolve in hydrofluoric acid, producing corrosive silicon tetrafluoride gas. Silicates react with powerful oxidizers such as fluorine, boron trifluoride, chlorine trifluoride, manganese trifluoride, and oxygen difluoride.

Hazchem Code: Not allocated.

## 5.3. Special Protective Actions for Fire-Fighters

**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>). Sulfur oxides. Metal oxides. Silica compounds. Chlorides. Crystalline silica exists in several forms, the most common of which is quartz. If crystalline silica (quartz) is heated to more than 870°C (1598°F), it can change to a form of crystalline silica known as trydimite, and if crystalline silica (quartz) is heated to more than 1470°C (2678°F), it can change to a form of crystalline silica known as cristobalite. The OSHA PEL for crystalline silica as trydimite and cristobalite is one-half of the OSHA PEL for crystalline silica (quartz).

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

# 6.1. Personal Precautions, Protective Equipment and Emergency Procedures

**General Measures:** Do not breathe dust. Do not get in eyes, on skin, or on clothing. Do not handle until all safety precautions have been read and understood.

# 6.1.1. For Non-Emergency Personnel

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

**Emergency Procedures:** Evacuate unnecessary personnel.

## 6.1.2. For Emergency Responders

**Protective Equipment:** Equip cleanup crew with proper protection.

**Emergency Procedures:** Ventilate area. Upon arrival at the scene, a first responder is expected to recognise 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.

# 6.2. Personal Precautions, Protective Equipment and Emergency Procedures

Prevent entry to sewers and public waters.

## 6.3. Methods and Materials for Containment and Cleaning Up

**For Containment:** Contain solid spills with appropriate barriers and 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. Recover the product by vacuuming, shoveling or sweeping. Transfer spilled material to a suitable container for disposal. Avoid actions that cause dust to become airborne during clean-up such as dry sweeping or using compressed air. Use HEPA vacuum or thoroughly wet with water to clean-up dust. Use PPE described in Section 8. Cautiously neutralize spilled solid. Contact competent authorities after a spill.

# 6.4. Reference to Other Sections

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

# SECTION 7: HANDLING AND STORAGE

## 7.1. Precautions for Safe Handling

**Additional Hazards When Processed:** May release corrosive vapours. Cutting, crushing or grinding crystalline silica-bearing materials may release respirable crystalline silica, a known carcinogen. Use all appropriate measures of dust control or suppression and personal protective equipment. Practice good housekeeping - spillage can be slippery on smooth surface either wet or dry.

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

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures.

# 7.2. 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:** Reactive or incompatible with the following materials: oxidizing materials, acids, aluminum and ammonium salt.

Portland cement is highly alkaline and will react with acids to produce a violent, heat-generating reaction. Toxic gases or vapors may be given off depending on the acid involved. Reacts with acids, aluminum metals and ammonium salts. Aluminum powder and other alkali and alkaline earth elements will react in wet mortar or concrete, liberating hydrogen gas. Limestone ignites on contact with fluorine and is incompatible with acids, alum, ammonium salts, and magnesium. Silica reacts violently with powerful oxidizing agents such as fluorine, boron trifluoride, chlorine trifluoride, manganese trifluoride, and oxygen difluoride yielding possible fire and/or explosions. Silicates dissolve readily in hydrofluoric acid producing a corrosive gas — silicon tetrafluoride.

# SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1. 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: ACGIH (TLV), AIHA (WEEL), UK HSE (WEL), Australia OELs, or New Zealand (WES)

Quartz (14808-60-7)			
USA ACGIH	ACGIH OEL TWA	0.025 mg/m³ (respirable particulate matter)	
USA ACGIH	ACGIH chemical category	Suspected Human Carcinogen	
Australia	OES TWA [1]	0.05 mg/m³ (respirable dust)	
New Zealand	WES-TWA (OEL TWA) [1]	0.05 mg/m³ (respirable dust)	
New Zealand	Chemical category	Confirmed carcinogen	
Kaolin (1332-58-7)			
USA ACGIH	ACGIH OEL TWA	2 mg/m³ (particulate matter containing no asbestos and	
		<1% crystalline silica, respirable particulate matter)	
USA ACGIH	ACGIH chemical category	Not Classifiable as a Human Carcinogen	
Australia	OES TWA [1]	10 mg/m³ (containing no Asbestos and <1% Crystalline	
		silica-inhalable dust)	
New Zealand	WES-TWA (OEL TWA) [1]	10 mg/m <sup>3</sup>	
		2 mg/m³ (respirable dust)	
United Kingdom	WEL TWA (OEL TWA) [1]	2 mg/m³ (respirable dust)	
United Kingdom	WEL STEL (OEL STEL)	6 mg/m³ (calculated-respirable dust)	
Cement, portland, chem	nicals (65997-15-1)		
USA ACGIH	ACGIH OEL TWA	1 mg/m³ (particulate matter containing no asbestos and	
		<1% crystalline silica, respirable particulate matter)	
USA ACGIH	ACGIH chemical category	Not Classifiable as a Human Carcinogen	
Australia	OES TWA [1]	10 mg/m³ (containing no Asbestos and <1% Crystalline	
		silica-inhalable dust)	
New Zealand	WES-TWA (OEL TWA) [1]	3 mg/m³	
		1 mg/m³ (respirable dust)	
New Zealand	WES-TWA (OEL TWA) [2]	1 mg/m³ (respirable dust)	
New Zealand	Chemical category	dermal sensitiser	
United Kingdom	WEL TWA (OEL TWA) [1]	10 mg/m³ (inhalable dust)	
		4 mg/m³ (respirable dust)	

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United Kingdom	WEL STEL (OEL STEL)	30 mg/m³ (calculated-inhalable dust)				
		12 mg/m³ (calculated-respirable dust)				
Calcium sulfate hydrate (13	Calcium sulfate hydrate (13397-24-5)					
USA ACGIH	ACGIH OEL TWA	10 mg/m³ (inhalable particulate matter (Calcium sulfate)				
United Kingdom	WEL TWA (OEL TWA) [1]	10 mg/m³ (inhalable dust)				
		4 mg/m³ (respirable dust)				
United Kingdom	WEL STEL (OEL STEL)	30 mg/m³ (calculated-inhalable dust)				
		12 mg/m³ (calculated-respirable dust)				
Limestone (1317-65-3)						
New Zealand	WES-TWA (OEL TWA) [1]	10 mg/m <sup>3</sup>				
United Kingdom	WEL TWA (OEL TWA) [1]	10 mg/m³ (inhalable dust)				
		4 mg/m³ (respirable dust)				
United Kingdom	WEL STEL (OEL STEL)	30 mg/m³ (calculated-inhalable dust)				
		12 mg/m³ (calculated-respirable dust)				

## 8.2. Monitoring

### **Monitoring Methods:**

## **Specific Needed Monitoring:**

**Bei:** 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.

# 8.3. Exposure Controls

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. Maintain sufficient mechanical or natural ventilation to assure silica concentrations remain below PEL/TLV. Use local exhaust if necessary. Power equipment should be equipped with properly designed dust collection devices. If product needs to be altered, use wet processing techniques if possible to minimize generation of dust.

# 8.4. Individual Protection Measures, Such as Personal Protective Equipment (PPE)

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











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.

# **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

# 9.1. Information on Basic Physical and Chemical Properties

Physical State: SolidAppearance: Grey

Odour:No data availableOdour Threshold:No data availablepH:No data availableEvaporation Rate:No data availableMelting Point:No data availableFreezing Point:No data availableBoiling Point:No data available

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No data available Flash Point **Auto-ignition Temperature** No data available **Decomposition Temperature** No data available **Flammability** No data available **Lower Flammable Limit** No data available **Upper Flammable Limit** No data available **Vapour Pressure** No data available Relative Vapour Density at 20°C No data available

**Relative Density** 1.2 - 1.5

**Specific Gravity** No data available Solubility Water: Insoluble Partition Coefficient: N-Octanol/Water No data available No data available Viscosity

## SECTION 10: STABILITY AND REACTIVITY

#### 10.1. Reactivity:

Portland Cement reacts slowly with water forming hydrated compounds, releasing heat and producing a strong alkaline solution until reaction is substantially complete. Silicates dissolve in hydrofluoric acid, producing corrosive silicon tetrafluoride gas. Silicates react with powerful oxidizers such as fluorine, boron trifluoride, chlorine trifluoride, manganese trifluoride, and oxygen difluoride.

#### **Chemical Stability:** 10.2.

Stable under recommended handling and storage conditions (see section 7).

### **Possibility of Hazardous Reactions:**

Hazardous polymerisation will not occur.

#### 10.4. **Conditions to Avoid:**

Direct sunlight, extremely high or low temperatures, and incompatible materials. Avoid dust formation.

#### **Incompatible Materials:**

Reactive or incompatible with the following materials: oxidizing materials, acids, aluminum and ammonium salt. Portland cement is highly alkaline and will react with acids to produce a violent, heat-generating reaction. Toxic gases or vapors may be given off depending on the acid involved. Reacts with acids, aluminum metals and ammonium salts. Aluminum powder and other alkali and alkaline earth elements will react in wet mortar or concrete, liberating hydrogen gas. Limestone ignites on contact with fluorine and is incompatible with acids, alum, ammonium salts, and magnesium. Silica reacts violently with powerful oxidizing agents such as fluorine, boron trifluoride, chlorine trifluoride, manganese trifluoride, and oxygen difluoride yielding possible fire and/or explosions. Silicates dissolve readily in hydrofluoric acid producing a corrosive gas — silicon tetrafluoride.

### **Hazardous Decomposition Products:**

Thermal decomposition may produce: Crystalline silica exists in several forms, the most common of which is quartz. If crystalline silica (quartz) is heated to more than 870°C (1598 °F), it can change to a form of crystalline silica known as trydimite, and if crystalline silica (quartz) is heated to more than 1470°C (2678 °F), it can change to a form of crystalline silica known as cristobalite. The OSHA PEL for crystalline silica as trydimite and cristobalite is one-half of the OSHA PEL for crystalline silica (quartz). Corrosive vapours. Silica compounds. Sulfur oxides. Metal oxides. Chlorides.

# **SECTION 11: TOXICOLOGICAL INFORMATION**

#### 11.1. **Information on Toxicological Effects**

Likely Routes Of Exposure: Dermal, Eye Contact, Inhalation, Oral

Acute Toxicity (Oral): Not classified. Based on available data, the classification criteria are not met Acute Toxicity (Dermal): Not classified. Based on available data, the classification criteria are not met Acute Toxicity (Inhalation): Not classified. Based on available data, the classification criteria are not met

**Skin Corrosion/Irritation:** Causes skin irritation. **Eye Damage/Irritation:** Causes serious eye damage.

**Respiratory or Skin Sensitisation:** May cause an allergic skin reaction.

Germ Cell Mutagenicity: Not classified. Based on available data, the classification criteria are not met

Carcinogenicity: May cause cancer (Inhalation).

Specific Target Organ Toxicity (Repeated Exposure): Causes damage to organs (lungs) through prolonged or repeated exposure (Inhalation).

23/07/2024 EN (English) End of SDS 7/12 Reproductive Toxicity: Not classified. Based on available data, the classification criteria are not met

Specific Target Organ Toxicity (Single Exposure): May cause respiratory irritation.

Aspiration Hazard: Not classified. Based on available data, the classification criteria are not met

**Symptoms/Injuries After Inhalation:** Irritation of the respiratory tract and the other mucous membranes. May be corrosive to the respiratory tract. The lungs become very inflamed and may fill with fluid, causing severe shortness of breath and low blood oxygen levels. Inflammation, scarring, and symptoms progress faster in accelerated silicosis than in simple silicosis. Progressive massive fibrosis may occur in simple or accelerated silicosis, but is more common in the accelerated form. Progressive massive fibrosis results from severe scarring and leads to the destruction of normal lung structures.

Symptoms/Injuries After Skin Contact: Concrete may cause dry skin, discomfort, irritation, severe burns, and dermatitis. Exposure of sufficient duration to wet concrete can cause serious, potentially irreversible damage to skin, eye, respiratory and digestive tracts due to chemical (caustic) burns, including third degree burns. A skin exposure may be hazardous even if there is no pain or discomfort. Unhardened concrete is capable of causing dermatitis by irritation and allergy. Skin affected by dermatitis may include symptoms such as, redness, itching, rash, scaling, and cracking. Irritant dermatitis is caused by the physical properties of concrete including alkalinity and abrasion. Allergic contact dermatitis is caused by sensitization to hexavalent chromium (chromate) present in concrete. The reaction can range from a mild rash to severe skin ulcers. Persons already sensitized may react to the first contact with wet concrete. Others may develop allergic dermatitis after years of repeated contact with wet concrete. May cause an allergic skin reaction.

**Symptoms/Injuries After Eye Contact:** Concrete may cause immediate or delayed irritation or inflammation. Eye contact with wet concrete can cause moderate eye irritation, chemical burns and blindness. Eye exposures require immediate first aid and medical attention to prevent significant damage to the eye.

Symptoms/Injuries After Ingestion: May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract. Chronic Symptoms: Causes damage to organs (lungs, respiratory system) through prolonged or repeated exposure (Inhalation). May cause cancer by inhalation. This product contains crystalline silica. Long term exposure to respirable crystalline silica results in a significant risk of developing silicosis; a seriously disabling and fatal lung disease, and other non-malignant respiratory disease, lung cancer, kidney effects, and immune system effects. Pulmonary function may be reduced and pre-existing lung diseases such as: emphysema or asthma may be aggravated by inhalation exposure to dusts. Smoking aggravates the effects of exposure. Inhalation may lead to a progressive massive fibrosis which may be accompanied by right heart enlargement, heart failure, pulmonary failure of the lung and susceptibility to pulmonary tuberculosis.

# LD50 and LC50 Data:

Quartz (14808-60-7)		
LD50 Oral Rat	> 5000 mg/kg	
LD50 Dermal Rat	> 5000 mg/kg	
Kaolin (1332-58-7)		
LD50 Oral Rat	> 5000 mg/kg	
LD50 Dermal Rat	> 5000 mg/kg (Source: NLM_HSDB)	
LD50 Dermal Rabbit	> 5000 mg/kg	
Quartz (14808-60-7)		
IARC Group	1	
National Toxicology Program (NTP) Status	Known Human Carcinogens.	
Sepiolite (Mg2H2(SiO3)3.xH2O) (63800-37-3)		
IARC Group	3	

# **SECTION 12: ECOLOGICAL INFORMATION**

# 12.1. Toxicity

Ecology - General: Not classified. Based on available data, the classification criteria are not met

Hazardous to the aquatic environment, short—term (acute): Not classified. Based on available data, the classification criteria are not met

Hazardous to the aquatic environment, long—term (chronic): Not classified. Based on available data, the classification criteria are not met

Soil toxicity: Not classified. Based on available data, the classification criteria are not met

**Terrestrial vertebrate toxicity:** Not classified. Based on available data, the classification criteria are not met **Terrestrial invertebrate toxicity:** Not classified. Based on available data, the classification criteria are not met

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## 12.2. Persistence and Degradability

4-XLT	
Persistence and Degradability	Not established.

### 12.3. Bioaccumulative Potential

4-XLT		
Bioaccumulative Potential Not established.		
Sepiolite (Mg2H2(SiO3)3.xH2O) (63800-37-3)		
BCF Fish 1	(no known bioaccumulation)	

### 12.4. Mobility in Soil

No additional information available

## 12.5. Other Adverse Effects

Ozone: Not classified.

Effect On Global Warming:

Other Information: Avoid release to the environment.

# **SECTION 13: DISPOSAL CONSIDERATIONS**

## 13.1. Waste treatment methods

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

**Ecology - Waste Materials:** Avoid release to the environment.

# **SECTION 14: TRANSPORT INFORMATION**

The shipping description(s) stated herein were prepared in accordance with certain assumptions at the time the SDS was authored, and can vary based on a number of variables that may or may not have been known at the time the SDS was issued.

# In Accordance with UN RTDG, IMDG, and IATA

UN RT	DG	IMDG	IATA	
14.1.	UN Number	•		
Not reg	gulated for transport			
14.2.	UN Proper Shipping Name			
Not reg	gulated for transport			
14.3.	Transport Hazard Class(es)			
Not reg	gulated for transport			
14.4.	Packing Group			
Not regulated for transport				
14.5.	.5. Environmental Hazards			
Not regulated for transport				

# 14.6. Special Precautions For User

No additional information available

## 14.7. Transport in Bulk According to Annex II of MARPOL and The IBC Code

Not applicable

# 14.8. Hazchem or Emergency Action Code

Hazchem Code: : Not allocated.

# **SECTION 15: REGULATORY INFORMATION**

# 15.1. International Regulatory Lists

# Quartz (14808-60-7)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active

Listed on the Canadian DSL (Domestic Substances List)

Listed on IARC (International Agency for Research on Cancer)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Listed on the Canadian IDL (Ingredient Disclosure List)

Listed as carcinogen on NTP (National Toxicology Program)

Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)

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Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on KECL/KECI (Korean Existing Chemicals Inventory)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on the Japanese ISHL (Industrial Safety and Health Law)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

Listed on the TCSI (Taiwan Chemical Substance Inventory)

Listed on the NCI (Vietnam - National Chemical Inventory)

Listed on Thailand Existing Chemicals Inventory (DIW)

# Sepiolite (Mg2H2(SiO3)3.xH2O) (63800-37-3)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active

Listed on the Canadian NDSL (Non-Domestic Substances List)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on KECL/KECI (Korean Existing Chemicals Inventory)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

Listed on the TCSI (Taiwan Chemical Substance Inventory)

Listed on the NCI (Vietnam - National Chemical Inventory)

Listed on Thailand Existing Chemicals Inventory (DIW)

## Kaolin (1332-58-7)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active

Listed on the Canadian DSL (Domestic Substances List)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on KECL/KECI (Korean Existing Chemicals Inventory)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

Listed on the TCSI (Taiwan Chemical Substance Inventory)

Listed on the NCI (Vietnam - National Chemical Inventory)

Listed on Thailand Existing Chemicals Inventory (DIW)

## Cement, portland, chemicals (65997-15-1)

Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)

Listed on the Canadian DSL (Domestic Substances List)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Listed on KECL/KECI (Korean Existing Chemicals Inventory)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Listed on the Canadian IDL (Ingredient Disclosure List)

Disclosure at 1 % according to The Ingredient Disclosure List.

## Calcium sulfate hydrate (13397-24-5)

Listed on the Canadian DSL (Domestic Substances List)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

Listed on the TCSI (Taiwan Chemical Substance Inventory)

Listed on the NCI (Vietnam - National Chemical Inventory)

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According to the Hazardous Substances and New Organisms Act (1996)

# Listed on Thailand Existing Chemicals Inventory (DIW)

## Limestone (1317-65-3)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active

Listed on the Canadian NDSL (Non-Domestic Substances List)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on KECL/KECI (Korean Existing Chemicals Inventory)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on the Japanese ISHL (Industrial Safety and Health Law)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

Listed on the TCSI (Taiwan Chemical Substance Inventory)

Listed on the NCI (Vietnam - National Chemical Inventory)

Listed on Thailand Existing Chemicals Inventory (DIW)

## 15.2. International Agreements

No additional information available

## 15.3. Local Regulations

Quartz (14808-60-7)	
HSNO Approval Number	HSR003125

# **SECTION 16: OTHER INFORMATION**

**Date of Preparation or Latest** 

: 23/07/2024

Revision

Data Sources : Information and data obtained and used in the authoring of this safety data sheet could

come from database subscriptions, official government regulatory body websites, product/ingredient manufacturer or supplier specific information, and/or resources that include substance specific data and classifications according to GHS or their subsequent

adoption of GHS.

# GHS Full Text Phrases:

Carc. 1	Carcinogenicity, Category 1
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
STOT RE 1	Specific target organ toxicity – Repeated exposure, Category 1
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Respiratory
	tract irritation
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H335	May cause respiratory irritation
H350	May cause cancer
H372	Causes damage to organs through prolonged or repeated exposure

#### **Indication of Changes:**

No additional information available

## **Abbreviations and Acronyms:**

ACGIH – American Conference of Governmental Industrial Hygienists

AIHA – American Industrial Hygiene Association

ATE - Acute Toxicity Estimate

BCF - Bioconcentration Factor

BEI - Biological Exposure Indices (BEI)

BOD - Biochemical Oxygen Demand

Log Pow - Ratio of the equilibrium concentration (C) of a dissolved substance in a two-phase system consisting of two largely immiscible solvents, in this case octanol and water

MARPOL – International Convention for the Prevention of Pollution MFAG-No - Medical First Aid Guide for Use in Accidents Involving Dangerous Goods

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According to the Hazardous Substances and New Organisms Act (1996)

CAS No. - Chemical Abstracts Service Number

COD - Chemical Oxygen Demand

EC50 - Median Effective Concentration

EmS-No. (Fire) - IMDG Emergency Schedule Fire EmS-No. (Spillage) - IMDG Emergency Schedule Spillage

ErC50 - EC50 in Terms of Reduction Growth Rate

ERG code (IATA) - Emergency Response Drill Code as found in the

International Civil Aviation Organization (ICAO)

GHS - Globally Harmonized System of Classification and Labeling of

Chemicals

GWP - Global Warming Potential

IARC - International Agency for Research on Cancer IATA - International Air Transport Association IBC - International Bulk Chemical Code

IMDG - International Maritime Dangerous Goods

LC50 - Median Lethal Concentration

LD50 - Median Lethal Dose

LOAFL - Lowest Observed Adverse Effect Level LOEC - Lowest-Observed-Effect Concentration

Log Koc - Soil Organic Carbon-water Partitioning Coefficient

Log Kow - Octanol/water Partition Coefficient

NOAEL - No-Observed Adverse Effect Level NOEC - No-Observed Effect Concentration NTP - National Toxicology Program OEL - Occupational Exposure Limits

pH - Potential Hydrogen

SADT - Self Accelerating Decomposition Temperature

SDS - Safety Data Sheet

STEL - Short Term Exposure Limit STOT - Specific Target Organ Toxicity ThOD - Theoretical Oxygen Demand TLM - Median Tolerance Limit TLV - Threshold Limit Value

TWA - Time Weighted Average

UK HSE - United Kingdom Health and Safety Executive

UN - United Nations

UN RTDG – United Nations Recommendations on the Transport of Dangerous

Goods

VOC - Volatile Organic Compounds

WEEL - Workplace Environmental Exposure Levels

WEL - Workplace Exposure Limit WES - Workplace Exposure Standards

## **Glossary of Data Source Abbreviations**

ATSDR: Agency for Toxic Substances and Disease Registry (U.S. Department of

Health and Human Services) AU WES: Australia WES

CHEMVIEW: ChemView (U.S. Environmental Protection Agency) EC RAR: European Commission Renewal Assessment Report

EC SCOEL: European Commission Scientific Committee on Occupational

**Exposure Limits** 

ECETOC: European Centre for Ecotoxicology and Toxicology of Chemicals

Reports

ECHA API: European Chemicals Agency API ECHA RAC: ECHA Committee for Risk Assessment

EFSA: European Food Safety Authority EPA: U.S. Environmental Protection Agency

EPA\_AEGL: Acute Exposure Guideline Levels (U.S. Environmental Protection

Agency)

EPA FIFRA: Federal Insecticide, Fungicide, and Rodenticide Act Reregistration

Eligibility Decision (U.S. Environmental Protection Agency)

EPA HPV: High Production Volume Chemicals (U.S. Environmental Protection Agency)

EPA\_TRED: Risk Assessment for Tolerance Reassessment Eligibility Decision (U.S. Environmental Protection Agency)

EU\_CLH: European Union Harmonised Classification and Labelling Proposal

EU\_RAR: European Union Risk Assessment Report

FOOD\_JOURN: Food Research Journal (1956)

IARC: The International Agency for Research on Cancer

IDLH: National Institute for Occupational Health and Safety Immediately

Dangerous to Life or Health Value Profiles

IUCLID: International Uniform Chemical Information Database

JAPAN GHS: Japan GHS Basis for Classification Data

JP J-CHECK: Japan J-Check

KR NIER: South Korea National Institute of Environmental Research Evaluations NICNAS: Australia National Industrial Chemicals Notification and Assessment

Scheme

NIOSH: National Institute for Occupational Health and Safety (U.S. Department

of Health and Human Services)

NLM\_CIP: National Library of Medicine ChemID plus database

NLM\_HSDB: National Library of Medicine Hazardous Substance Data Bank

NLM PUBMED: National Library of Medicine PubMed database

NTP: National Toxicology Program

NZ CCID: New Zealand Chemical Classification and Information Database OECD EHSP: Environment, Health, and Safety Publication (Organisation for

Economic Co-operation and Development)

OECD\_SIDS: Screening Information Data Sets (Organisation for Economic Co-

operation and Development) WHO: World Health Organization

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as quaranteeing any specific property of the product.

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