



SAFETY DATA SHEET
QUICSEAL 515
POLYMER MODIFIED STRUCTURAL REPAIR MORTAR

1. INFORMATION OF THE SUBSTANCE/COMPOUND AND THE SUPPLIER

Product Name: QUICSEAL 515 – Polymer Modified Structural Repair Mortar
Product Use: Structural Repair Mortar

Details of the supplier:

QUICSEAL CONSTRUCTION CHEMICALS PTE LTD
No. 7 Eunos Avenue 8A
Eunos Industrial Estate
Singapore 409460

Emergency Contact No.: (+65) 6742 4466 (Office Hours: 9:00am – 5:00pm)

2. HAZARDS IDENTIFICATION

GHS Classification:

Skin irritation - Category 2
Eye irritation - Category 2
Specific target organ toxicity (repeated exposure) - Category 3

GHS LABEL ELEMENTS

Symbol(s)



Signal Word

Warning

Hazard Statements

H315: Causes skin irritation
H319: Causes serious eye irritation
H335: May cause respiratory irritation

Precautionary Measures

Prevention

P261: Avoid breathing dust.
P264: Wash hands and forearms thoroughly after handling.
P271: Use only outdoors or in a well-ventilated area.
P280: Wear protective gloves/protective clothing/eye protection.

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Response

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

P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position 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.

P312: Call a POISON CENTER or doctor/physician if you feel unwell.

P332+P313: If skin irritation occurs: Get medical advice/attention.

P337+P313: If eye irritation persists: Get medical advice/attention.

P362: Take off contaminated clothing and wash before reuse.

Storage

P402+P233: Store in a well-ventilated place. Keep container tightly closed.

P405: Store locked-up.

Disposal

P501: Dispose of contents/container in accordance with Singapore regulations.

3. COMPOSITION / INFORMATION ON INGREDIENTS

This product contains the following components classified as hazardous:

COMPONENTS	CAS No.	EINECS No.	Index No.	Percentage
Portland Cement	65997-15-1	--	--	30 - 40%
Silica Sand	14808-60-7	--	--	45 - 55%

4. FIRST-AID MEASURES**Eye Contact:**

Rinse eyes thoroughly with water for at least 15 minutes, including under lids, to remove all particles. Seek medical attention for abrasions on the eye surface.

Skin Contact:

Wash with cool water and a pH neutral soap or a mild skin detergent. Seek medical attention for rash, burns, irritation, dermatitis, and prolonged unprotected exposures to wet product, cement mixtures or liquids from wet cement.

Inhalation:

Move person to fresh air. Seek medical attention for discomfort or if coughing or other symptoms do not subside.

Ingestion:

Do not induce vomiting. If conscious, have person drink plenty of water. Seek medical attention or contact poison control center immediately.

Note to Physician:

Pls. see Section 11 for the details on the potential health effects of this product.

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5. FIRE-FIGHTING MEASURES

General fire hazards

This product poses no fire-related hazard. As a general precaution during fire-fighting involving the product, avoid breathing dust and fumes. Wet product is alkaline/caustic.

Fire-fighting equipment

A self-contained breathing apparatus (SCBA) is recommended to limit exposures to combustion products when fighting any fire involving the product.

Suitable fire-extinguishing media

Use extinguishing media appropriate for surrounding fire.

6. ACCIDENTAL RELEASE MEASURES

Methods and materials for containment and cleaning up

Collect the spilled material into a container. Avoid actions that cause the product to become airborne. Avoid inhalation of the powder product and contact with skin. Wear appropriate protective equipment as described in Section 8. Scrape wet product and place in container. Allow material to dry or solidify before disposal. Do not wash product down sewage and drainage systems or into bodies of water (e.g. streams). Dispose off dry/solidified product according to Singapore environmental regulations.

7. HANDLING AND STORAGE

Precautions for safe handling

Avoid actions that cause the powder product 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 below.

Cutting, crushing or grinding hardened product on concrete or other crystalline silica-bearing materials will release respirable crystalline silica. Use all appropriate measures of dust control or suppression, and Personal Protective Equipment (PPE) described in Section 8 below.

Promptly remove and launder clothing that is dusty or wet with powder product. Thoroughly wash skin after exposure to dust or wet product.

Conditions for safe storage, including any incompatibilities

Keep bagged product dry until used. Stack bagged material in a secure manner to prevent falling. Bagged product is heavy and poses risks such as sprains and strains to the back, arms, shoulders and legs during lifting and mixing. Handle with care and use appropriate control measures.

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8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Occupational Exposure Limits

Portland Cement, CAS No: 65997-15-1: ACGIH TLV = 10 mg/m³ (total dust)

Silica Sand (Quartz), CAS No: 14808-60-7: Singapore PEL (long-term) = 0.1 mg/m³

Engineering Controls

Use local exhaust or general dilution ventilation or other suppression methods to maintain dust levels below exposure limits.

Personal Protective Equipment (PPE)

Respiratory Protection

Wear a NIOSH 42 CFR 84 standard-approved particulate respirator/dust mask that is properly fitted and is in good condition during handling of the product especially when dust is above exposure limits.

Eye Protection

Wear ANSI-approved glasses or safety goggles when handling the dry powder or wet product to prevent contact with eyes. Wearing contact lenses when using the product, under dusty conditions, is not recommended.

Skin Protection

Wear gloves, boot covers and protective clothing impervious to water to prevent skin contact. Do not rely on barrier creams, in place of impervious gloves. Remove clothing and protective equipment that becomes saturated with wet product and immediately wash exposed areas.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Powder
Appearance:	Grey powder
Flash Point:	Not flammable
Oxidising Properties:	Not Applicable
Flammability Limits:	None allocated
Water Solubility:	Slightly soluble in water
Solid Content:	approx. 100%
pH:	11 – 12 (wet)

10. STABILITY AND REACTIVITY

Stability

The product is stable in normal conditions of use and storage. However, keep the product dry until use. Avoid contact with incompatible materials.

Incompatible materials

Wet product is alkaline and is incompatible with acids, ammonium salts and aluminum metal. The product dissolves in hydrofluoric acid, producing corrosive silicon tetrafluoride gas. The product reacts with water to form silicates and calcium hydroxide. Silicates react with powerful oxidizers such as fluorine, boron trifluoride, chlorine trifluoride, manganese trifluoride, and oxygen difluoride.

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11. TOXICOLOGICAL INFORMATION

Potential Health Effects

The potential effects on human health stated below are based on our knowledge of the product and statistically derived from the cumulative data estimates of the hazardous components of the product, following the classification principles of the Globally Harmonized System of Classification of Chemicals (GHS). Do note that the product has not been subjected to actual toxicological tests.

Acute Toxicity

Acute Toxicity Estimates (ATE) based on the hazardous components of the product:

LD50, oral: > 5,000 mg/kg (the product is not toxic/harmful if swallowed.)

LD50, dermal: > 5,000 mg/kg (the product is not toxic/harmful in contact with skin)

LC50, inhalation: > 20 mg/L (the product is not toxic/harmful if inhaled)

Skin Corrosion

In its wet state (when mixed with water), this product causes skin irritation.

Serious Eye Damage

In its wet state, this product causes serious eye irritation.

Respiratory / Skin sensitization

This product is not expected to cause allergic skin reaction in contact with skin (skin sensitization) or respiratory allergy/asthma symptoms/breathing difficulties if inhaled (respiratory sensitization).

Germ cell mutagenicity / Reproductive toxicity / Developmental toxicity

Based on the assessment of available information, studies have shown that the product's components are not mutagenic in bacteria and are not expected to cause reproductive and/or developmental toxicity.

Carcinogenicity

The product contains minute amounts of respirable crystalline silica which is classified as a Group 1 carcinogen by the International Agency for Research on Cancer (IARC). While the respirable crystalline silica content of the product (<0.1%) is insufficient for GHS classification, long-term exposure to significantly large amounts may result in lung fibrosis (silicosis).

Specific target organ toxicity (Repeated Exposure)

Based on the available information, the product is not expected to cause damage to any specific organs after a single or prolonged/repeated exposure. However, this product may cause respiratory irritation upon repeated exposure to the powder dust.

12. ECOLOGICAL INFORMATION

Ecotoxicity

There is insufficient available data (toxicity to aquatic organisms) specific for the product's components. The metal components of metal-containing inorganic substances such as cement and silica sand show few toxic effects at physiological pH levels, but transformation to more soluble ionic forms may introduce new or magnified effects.

Persistence and degradability

This product is non-biodegradable and is not expected to create environmental hazard unless dumped in massive quantities.

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Mobility

Most metal components of cement and silica sand will exhibit limited mobility in dry soil and remain in the upper layer; some will leach locally into ground water and/or surface water ecosystems when soaked by rain.

13. DISPOSAL CONSIDERATIONS**Disposal of the product**

This product can be disposed of by burial in a landfill specifically licensed to accept chemical wastes or by incineration in a licensed facility in accordance with Singapore regulations.

Disposal of container

Decontaminate empty bags. Observe all label safeguards until the bags are cleaned from the powder contents. Dispose of bags by burial in a landfill specifically licensed to accept chemical wastes or by incineration in a licensed facility in accordance with Singapore regulations.

14. TRANSPORT INFORMATION

This product is NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS under the current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods (IMDG) Code, and of the International Air Transport Association (IATA) regulations.

15. REGULATORY INFORMATION**Applicable National Regulations**

This product is subject to the requirements in the following acts/regulations:
Workplace Safety and Health Act & Workplace Safety and Health (General Provisions) Regulations
Environmental Protection and Management Act and Environmental Protection and Management

International Regulations

This product is classified as hazardous pursuant to the provision set forth in Directives 67/548/EEC and 1999/45/EC and/or EC Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of EC Regulation 1907/2006 and subsequent amendments.

OSHA/MSHA Hazard Communication

This product is considered by OSHA/MSHA to be a hazardous chemical and should be included in the employer's hazard communication program.

16. OTHER INFORMATION

The information and data contained herein are believed to be accurate and reliable; however, it is the user's responsibility to determine suitability of use. Since QUICSEAL Construction Chemicals Pte. Ltd. cannot know all of the uses to which its products may be put or the conditions of use; it makes no warranties concerning the fitness or suitability of its products for a particular use of purpose.

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