



**SAFETY DATA SHEET
QUICSEAL 538
PAVER-SIL**

1. INFORMATION OF THE SUBSTANCE/COMPOUND AND THE SUPPLIER

Product Name: QUICSEAL 538 – Paver-Sil
Product Use: Water-based, deep-penetrating solution for sealing and dust-proofing friable concrete and masonry surfaces

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

2. HAZARDS IDENTIFICATION

GHS Classification:

Skin irritation – Category 1
Serious eye damage – Category 1

GHS LABEL ELEMENTS

Symbol(s):



Signal Word

Danger

Hazard Statements:

H314: Causes severe skin burns and serious eye damage
H335: May cause respiratory irritation

Precautionary Statements:

Prevention

P260: Do not breathe fume/mist/vapours/spray.
P264: Wash hands and forearms thoroughly after handling.
P280: Wear protective gloves/protective clothing/eye protection/face protection.

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Response

P301+P330+P331: IF SWALLOWED: Rinse mouth, Do NOT induce vomiting.

P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

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. Immediately call a poison center or doctor/physician.

Storage

P405: Store locked up.

Disposal

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

3. COMPOSITION / INFORMATION ON INGREDIENTS

This product contains the following components classified as hazardous:

COMPONENTS	CAS No.	EINECS No.	Index No.	Percentage
Sodium Silicate solution	1344-96-8	--	--	<i>Undisclosed; Proprietary</i>

4. FIRST-AID MEASURES**General advice**

Take person to a safe place. Observe self-protection for first aid. Consult a physician. Show this safety data sheet to the doctor in attendance.

Inhalation

Remove the patient out of the contaminated area into the fresh air. If breathing is irregular or stops, administer artificial respiration. If the person is unconscious, place in appropriate recovery position. Keep the patient warm and at rest until medical team arrives.

Skin contact

Remove immediately contaminated clothing and wash it separately with alkaline detergent. Throw away clothing should it be highly contaminated. Avoid concurrent exposure to sunlight or other sources of UV radiation which may cause skin sensitivity. Wash thoroughly the affected area with plenty of cold or lukewarm water and neutral soap, or use suitable skin cleanser. Do not use solvents or thinners. In the case of skin shredding or rashes, contact a doctor immediately.

Eye contact

Remove contact lenses. Rinse eyes copiously by irrigation with plenty of clean, fresh water for at least 15 minutes, holding the eyelids apart, until the irritation is reduced. Avoid concurrent exposure to sunlight or other sources of UV radiation which may cause eye sensitivity. Call a physician immediately.

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Ingestion

If swallowed, seek immediate medical attention. Do not induce vomiting due to risk of aspiration. Keep the patient at rest.

Most important symptoms and effects, both acute and delayed

The product contains the component sodium silicate, which in its pure form, is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., spasm, inflammation and edema of the larynx, spasm, inflammation and edema of the bronchi, pneumonitis, pulmonary edema, burning sensation, cough, wheezing, laryngitis, shortness of breath, headache, nausea

5. FIRE-FIGHTING MEASURES**Special Hazards arising from the substance or mixture**

As a consequence of combustion or thermal decomposition, sodium oxides and silicon oxides gases may be produced. Exposure to combustion or decomposition products may be a hazard to health.

Suitable Fire-extinguishing Media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Hazardous Combustion Products

Sodium oxides, silicon oxides.

Advice for fire-fighters

Use water spray in order to cool down the surface that exposed to the fire, and to protect the workers. Shut off source or fuel to fire if it possible to do so without hazard.

6. ACCIDENTAL RELEASE MEASURES**Environmental Precautions / Methods and materials for containment and cleaning up****Soil Spill**

Eliminate all sources of ignition. Dike and contain spill with inert material such as sand and earth. Use suitable equipment like pail to scrape the spillage and transfer liquid and solid separately to containers for recovery or disposal. Seek experts' advice regarding the disposal of recovery materials and make sure that it is equivalent to local disposal regulations.

Water Spill

Warn the other sewers. Inform the respective person-in-charge at the nearby port and keep people away from the area. Eliminate all sources if possible to do so without hazard. Dike and contain spill from the surface by using suitable absorbent. Suitable dewatering and/or separation can be used at the untrapped marine area, if allowed by the respective local regulatory. Seek experts' advice regarding the disposal of recovery materials and make sure that it is equivalent to local disposal regulations.

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7. HANDLING AND STORAGE

Precautions for Safe Handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Provide appropriate exhaust ventilation at closed confined places.

Conditions for safe storage, including any incompatibilities

Store product between 10°C to 60°C, protected from freezing and away from direct sunlight.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Occupational Exposure Limits

Sodium Silicate solution, CAS No. 1344-96-8, Long-term PEL = 2 mg/m³

Engineering Measures

The usage of local exhaust ventilation is recommended to control the emission process near to the sources. Provide adequate mechanical ventilation in storage and working areas.

Personal Protective Equipment:

General Guide

As a minimum safety precaution, we recommend users to wear safety goggles which are equipped with the side protection and wear working clothes or uniform which protect their hands, feet, and body. Persons who visit the place at which the product is being handled or processed must also wear safety goggles at the minimum.

Eye/face protection

Tightly fitting safety goggles. Faceshield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/68 6/EEC and the standard EN 374 derived from it.

Body protection

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU)

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9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Liquid
Color:	Clear transparent
Odour:	Odourless
Flash Point:	Non-flammable
Initial boiling point:	Not applicable
Freezing / Melting point:	Not applicable
Autoignition temperature:	Not applicable
Flammability Limits:	Not applicable
Vapor pressure:	Not available
Vapor density:	Not available
Water Solubility:	Miscible
Specific Gravity:	Approx. 1.21

10. STABILITY AND REACTIVITY

Chemical stability

Stable under recommended storage and handling conditions.

Possibility of hazardous reactions

Possible dangerous reaction with strong oxidizing agents.

Conditions to avoid

Avoid exposure to heat sources / extremely high temperatures.

Incompatible materials

Keep away from aluminium, lead, zinc, strong oxidizing agents, strong acids, tin/tin oxide.

Hazardous decomposition products

As consequence of thermal decomposition, hazardous sodium oxide and silicon oxide gases may be produced.

11. TOXICOLOGICAL INFORMATION

This product has not been tested and all the toxicological statements have been derived from the respective components' available toxicity information.

Acute toxicity

Experimental/calculated data:

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

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

LC50, inhalation: 22 mg/L (the product is not harmful if inhaled)

Skin and Eye Irritation

This product contains the ff. component classified as skin / eye irritant:

Sodium Silicate solution, CAS No. 1344-96-8: Skin Irritant (Category 1); Eye Irritant (Category 1)

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Respiratory / Skin sensitization

The product is not expected to cause any allergic skin reaction and/or allergy or asthma symptoms and/or breathing difficulties if accidentally inhaled. However, the product may irritate the respiratory system through inhalation.

Carcinogenicity / Developmental toxicity / Reproductive toxicity

The product has no known carcinogenic effect, is not expected to cause developmental toxicity and has no known negative reproductive effects.

Specific target organ toxicity (single and repeated exposure)

This product may cause respiratory irritation in single exposure and may cause damage to the respiratory system on prolonged and repeated exposure.

12. ECOLOGICAL INFORMATION

The following ecological assessment is based on the available ecotoxicity information of the product's components.

Acute toxicity to the aquatic environment

Toxicity to fish: LC50 (96h): > 100 mg/l (OECD Guideline 203, static)

Toxicity to aquatic invertebrates: LC50 (96h): > 100 mg/l (OECD Guideline 203, static)

Toxicity to algae: LC50 (96h): > 100 mg/l (OECD Guideline 203, static)

This product is not toxic/harmful to aquatic life.

Bioaccumulation

This product has a low bio-concentration factor (BCF).

Biodegradability

This product is classified as non-biodegradable.

13. DISPOSAL CONSIDERATIONS**Description of waste residues and information on their safe handling & methods of disposal**

Take all necessary measures to prevent the production of waste whenever possible. Analyze possible methods for revaluation or recycling. Dispose of this material and its container to hazardous or special waste collection point. Do not discharge into drains or the environment, dispose of at an authorized waste collection point. Waste should be handled and disposed of in accordance with current local and national regulations. For exposure controls and personal protection measures, see section 8.

Disposal of empty / contaminated packaging

Emptied containers and packaging should be disposed of in accordance with currently local and national regulations. The classification of packaging as hazardous waste will depend on the degree of emptying of the same, being the holder of the residue responsible for their classification, in accordance with Chapter 15 01 of Decision 2000/532/EC, and forwarding to the appropriate final destination. With contaminated containers and packaging, adopt the same measures as for the product in itself.

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14. TRANSPORT INFORMATION

This product is classified as NON-HAZARDOUS under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), 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
Maritime and Port Authority of Singapore (Dangerous Goods, Petroleum and Explosives)

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.

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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