



**SAFETY DATA SHEET  
QUICSEAL 635  
STONE ENHANCER**

**1. IDENTIFICATION OF THE PRODUCT AND THE SUPPLIER**

Product Name: QUICSEAL 635 – Stone Enhancer  
Product Use: Solvent-based stain-repellent impregnator and stone enhancer

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:**

Flammable Liquid – Category 3  
Aspiration Hazard – Category 1`

**GHS LABEL ELEMENTS**

**Symbol(s):**



**Signal Word**

Danger

**Hazard Statements:**

H226: Flammable liquid and vapour  
H304: May be fatal if swallowed and enters airways

**Precautionary Statements:**

Prevention

P210: Keep away from heat/sparks/open flames/hot surfaces. No smoking.  
P233: Keep container tightly closed.  
P240: Ground/bond container and receiving equipment.  
P241: Use explosion-proof electrical/ventilating/lighting equipment.  
P242: Take precautionary measures against static discharge.  
P243: Use only non-sparking tools.  
P280: Wear protective gloves/protective clothing/eye protection/face protection.

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Response

P301+P310: IF SWALLOWED: Immediately call a POISON CENTER or a doctor/physician.

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

P331: Do NOT induce vomiting.

P370+P378: In case of fire: Use appropriate extinction.

Storage

P403+P233/P235: Store in a well ventilated place. Keep container tightly closed. Keep cool.

P405: Store locked up.

Disposal

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

**3. COMPOSITION / INFORMATION ON INGREDIENTS**

This product contains the following components classified as hazardous:

COMPONENTS	CAS No.	EINECS No.	Index No.	Percentage
Ethyl Acetate	141-78-6	205-500-4	607-022-00-5	31.4 – 33.9%
Acetone	67-64-1	200-662-2	606-001-00-8	30.7 – 33.2%
Solvent Naphtha (Petroleum) Hydrosulfuric	64742-82-1	265-185-4	649-330-00-2	13.1 – 14.7%
Rosin	8050-09-7	232-475-7	650-015-00-7	5.3 – 6.4%
2-Propanol	67-63-0	200-661-7	603-117-00-0	3.9 – 4.5%
1-2-Dichloropropane	78-87-5	201-152-2	602-020-00-0	1.3 – 1.9%
N-Butyl Acetate	123-86-4	204-658-1	607-025-00-1	1 – 1.6%
1.2.4-Trimethylbenzene	95-63-6	202-436-9	601-043-00-3	0.84 – 0.94%

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

Take person to a safe place. Observe self-protection for first aid. Always seek medical advice in the event of contact with this substance.

**Inhalation**

Keep the patient calm. If unconscious place in stable sideways position. Protect against loss of body heat. If breathing stops, administer artificial respiration. Seek medical advice immediately and clearly identify substance.

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**Skin contact**

Remove contaminated clothes at once. Wash off with plenty of water or water and soap immediately for 10-15 minutes. In serious cases, use emergency shower immediately. Seek medical advice immediately and clearly identify substance.

**Eye contact**

Rinse immediately with plenty of water for 10-15 minutes. Keep eyelids well open to rinse the whole eye surface and eyelids with water. Seek medical advice immediately and clearly identify substance. Continue to bathe eyes during transport to medical practitioner.

**Ingestion**

If conscious, give several small portions of water to drink. Do not induce vomiting. Seek medical advice immediately and clearly identify substance.

**5. FIRE-FIGHTING MEASURES****General fire hazards**

This product is classified as FLAMMABLE LIQUID. See Section 9 for Flammability Properties. Closed containers exposed to heat of a fire may lead to pressure rise and explode. Vapors may be ignited rapidly when exposed to heat, spark, open flame or other source of ignition. When mixed with air and exposed to an ignition source, flammable vapors can burn in the open or explode in confined spaces. Being heavier than air, vapors may travel long distances to an ignition source and flash back. Runoff to sewer may cause fire or explosion hazard.

**Suitable Fire-extinguishing media:** Dry chemical, carbon dioxide, sand, fire fighting foam.

**Fire-fighting equipment / instructions**

Small fires in the incipient (beginning) stage may typically be extinguished using handheld portable fire extinguishers and other fire fighting equipment. Fire-fighting activities that may result in potential exposure to high heat, smoke or toxic by-products of combustion should require NIOSH/MSHA- approved pressure-demand self-contained breathing apparatus with full facepiece and full protective clothing. Isolate area around container involved in fire. Cool tanks, shells, and containers exposed to fire and excessive heat with water. For massive fires the use of unmanned hose holders or monitor nozzles may be advantageous to further minimize personnel exposure. Major fires may require withdrawal, allowing the tank to burn.

**Hazardous combustion products**

Carbon monoxide, carbon dioxide and non-combusted hydrocarbons (smoke).

**Further information**

Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

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## 6. ACCIDENTAL RELEASE MEASURES

### Emergency measures

Evacuate nonessential personnel and remove or secure all ignition sources. Ventilate the area. Consider wind direction; stay upwind and uphill, if possible. Evaluate the direction of product travel, diking, sewers, etc. to confirm spill areas. Spills may infiltrate subsurface soil and groundwater; professional assistance may be necessary to determine the extent of subsurface impact.

### Personal precautions and protective equipment

Response and clean-up crews must be properly trained and must utilize proper protective equipment (see Section 8).

### Environmental precautions

Protect bodies of water by diking, absorbents, or absorbent boom, if possible. Do not flush down sewer or drainage systems, unless system is designed and permitted to handle such material. The use of fire fighting foam may be useful in certain situations to reduce vapors. The proper use of water spray may effectively disperse product vapors or the liquid itself, preventing contact with ignition sources or areas/equipment that require protection.

### Methods and materials for containment and cleaning up

Carefully contain and stop the source of the spill, if safe to do so. Collect spillages by means of spark proof equipment. Use water only to remove residuals, so as not to run the risk of entering the sewer. Do not let the product dry. Contaminated clothes must be left to soak in water before washing.

Spillage in waters: remove the liquid from the surface with flameproof pumps or manual pumps or suitable absorbent material. Resort to sinking and/or dispersion of the product with suitable substances in open waters, if permitted by the law.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

Handle as a combustible liquid Do not smoke, use matches or lighters. Keep the containers earthed while decanting and wear antistatic boots. Vigorous stirring and flow through the piping and equipment may cause the formation and accumulation of electrostatic charges due to the low conductivity of the product. In order to avoid the risk of fire outbreak and explosion never use compressed air during movement. Bond and ground containers during product transfer to reduce the possibility of static-initiated fire or explosion.

### Conditions for safe storage, including any incompatibilities

Avoid the accumulation of electrostatic charges. Store the containers sealed in a cool and ventilated place, never at extreme temperatures. and in a well-ventilated place. Keep out of the reach of children. Don't overload shelves or tables with tins of the product. Vapours may ignite with explosion, it is therefore necessary to avoid accumulation keeping the windows and doors open, ensuring cross ventilation. Without adequate ventilation, the vapours may accumulate at the bottom and ignite at a distance, if triggered off with the risk of flashback. Keep far away from sources of heat, sparks and naked flames. Always keep the labelling in sight because it lists the potential risks. Keep containers closed and clearly labelled. Empty product containers or vessels may contain explosive vapors. Do not pressurize, cut, heat, weld or expose such containers to sources of ignition. Avoid storage near incompatible materials. Keep away from strong oxidizers.

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## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

### Control Parameters / Occupational Exposure Limits

COMPONENTS	CAS No.	Singapore Permissible Exposure Limit	
		Short-Term	Long-Term
Ethyl Acetate	141-78-6	--	400 ppm / 1,440 mg/m <sup>3</sup>
2-Propanol	67-63-0	500 ppm / 1,230 mg/m <sup>3</sup>	400 ppm / 983 mg/m <sup>3</sup>
Solvent Naphtha (Petroleum) Hydrosulfuric	64742-82-1	--	575 mg/m <sup>3</sup>
Acetone	67-64-1	1,000 ppm / 2,380 mg/m <sup>3</sup>	750 ppm / 1,780 mg/m <sup>3</sup>
1-2-Dichloropropane	78-87-5	110 ppm / 508 mg/m <sup>3</sup>	75 ppm / 347 mg/m <sup>3</sup>
N-Butyl Acetate	123-86-4	950 mg/m <sup>3</sup>	713 mg/m <sup>3</sup>
1.2.4-Trimethylbenzene	95-63-6	--	123 mg/m <sup>3</sup>

#### Appropriate engineering measure

Use adequate ventilation to keep vapor concentrations of this product below occupational exposure and flammability limits, particularly in confined spaces.

#### Personal protective equipment

##### Hand Protection

Solvent-proof gloves constructed of nitrile, neoprene, or PVC are recommended.

##### Eye Protection

Safety glasses or goggles are recommended where there is a possibility of splashing or spraying.

##### Skin Protection

Chemical protective clothing such as of E.I. DuPont TyChem®, Saranex® or equivalent recommended based on degree of exposure.

##### Respiratory Protection

A NIOSH/MSHA-approved air-purifying respirator with organic vapor cartridges or canister may be permissible under certain circumstances where airborne concentrations are or may be expected to exceed exposure limits or for odor or irritation. Protection provided by air-purifying respirators is limited.

Use a positive pressure, air-supplied respirator if there is a potential for uncontrolled release, exposure levels are not known, in oxygen-deficient atmospheres, or any other circumstance where an air-purifying respirator may not provide adequate protection.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Transparent Liquid
Odour:	Prickly
Flash Point:	23°C
Initial boiling point / range:	Not available
Autoignition temperature:	Not available
Flammability Limits (vol%):	Not available
Vapor pressure (20°C):	Not available
Water Solubility (25°C):	Immiscible
Specific Gravity:	Approx. 0.89

## 10. STABILITY AND REACTIVITY

### Chemical stability

The product is flammable. The liquid and vapour is readily combustible.

### Possibility of hazardous reactions

This product reacts violently with strong oxidizing agents. Concentrated vapours may form explosive mixtures with the air.

Dichloropropane decomposes on contact with flames or red-hot surfaces giving off toxic vapours of phosgene and corrosive vapours of hydrochloric acid. It reacts with light metals (aluminium etc.,) developing heat.

Acetone reacts violently with chloroform in basic ambient with the risk of fires and explosions.

Ethyl acetate may decompose when heated with water and reacts with strong oxidizing agents.

### Conditions to avoid

Avoid high temperatures, open flames, sparks, welding, smoking & other ignition sources.

### Incompatible materials

Keep away from strong oxidizers and strong acids.

### Hazardous decomposition products

Carbon monoxide, carbon dioxide and non-combusted hydrocarbons (smoke).

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

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

LC50 (4 hr exposure): > 20 mg/L (the product is not harmful if inhaled)

Acute effects: stinging eyes. Symptoms may include: rubescence, edema, pain and lachrymation.

Vapour inhalation may moderately irritate the upper respiratory tract. Contact with skin may cause slight irritation. Ingestion may cause health problems, including stomach pain and sting, nausea and sickness.

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**Skin and Eye Irritation**

The product causes serious eye irritation – Category 2.

**Respiratory / Skin sensitization**

Upon contact with skin, this product causes sensitization (dermatitis). Dermatitis derives from skin irritation on the areas which repeatedly come into contact with the sensitizing agent. Cutaneous lesions may include erythemas, edemas, papules, vesicles, pustules, scurves, ulcerations and exudative phenomena, whose intensity varies according to illness seriousness and affected areas. Scurfy skin, dryness, ulcerations and skin thickening prevail during the acute phase. The product is not expected to cause respiratory sensitization.

**Aspiration Hazard**

This product may be fatal when swallowed or enters airways – Category 1.

**Germ cell mutagenicity / Carcinogenicity / Reproductive toxicity / Developmental toxicity**

Based on the assessment of available information, the product is: not mutagenic in bacteria; has no known carcinogenic effect; and not expected to cause reproductive and developmental toxicity.

**Specific target organ toxicity (single and repeated exposure)**

This product contains highly volatile substances, which may cause serious depression of the central nervous system (CNS) and have negative effects such as drowsiness, dizziness, slow reflexes, narcosis.

**12. ECOLOGICAL INFORMATION**

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

**Ecotoxicity**

This product is not expected to be toxic to aquatic life based on the toxicity values to the following aquatic organisms:

Fish: LC50 (96h) > 100 mg/l, *Brachydanio rerio* (OECD Guideline 203, static)

Aquatic invertebrates: EC50 (48h) > 100 mg/l, *Daphnia magna* (OECD Guideline 202, part 1, static)

Aquatic plants: LC50 (72h) > 100 mg/l, *Scenedesmus subspicatus* (OECD Guideline 201)

**Persistence, Biodegradability, and Bioaccumulation**

The non-aromatic mineral water spirits content of this product tends to be distributed exclusively in the air where it is photodegradable. The small amount that remains in the water tends to deposit at the bottom and is biodegraded; it is thus not bioaccumulated by fish. In the soil, the substance remains absorbed and is unable to reach the subterranean layers

**Additional information**

Do not release product untreated into natural waters.

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

Dispose of the product through licensed hazardous waste collectors under Singapore regulations. Container should be recycled after cleaning or dispose of the container through licensed hazardous waste collectors under Singapore regulations. Provide the hazardous waste collector the sufficient information on the various hazards of this product.

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**14. TRANSPORT INFORMATION****Land Transport (ADR/RID):**

Shipping Name: RESIN SOLUTION  
 UN #: 1866  
 Hazard Class: 3  
 Nr. Kemler: 30  
 Packing Group: III  
 Packaging Instructions: 640D

Label:

**Air Transport (IATA/CAO):**

Shipping Name: RESIN SOLUTION  
 UN #: 1866  
 Hazard Class: 3  
 Packing Group: III  
 Cargo Packaging Instructions: 307 (Max. Quantity: 60L)  
 Passenger Packaging Instructions: 305 (Max. Quantity: 5L)

Label:

**Sea transport (IMDG):**

Shipping Name: RESIN SOLUTION  
 UN #: 1866  
 Hazard Class: 3  
 Packing Group: III  
 EmS Number: F-E S-E  
 Marine pollutant: No

Label:

**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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