



SAFETY DATA SHEET
QUICSEAL 631
Q-PORCELAIN

1. INFORMATION OF THE SUBSTANCE/COMPOUND AND THE SUPPLIER

Product Name: QUICSEAL 631 – Q-Porcelain
Product Use: Solvent-based water-repellent impregnator

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
Skin irritation – Category 2
Eye irritation – Category 2A

GHS LABEL ELEMENTS

Symbol(s):



Signal Word

Warning

Hazard Statements:

H226: Flammable liquid and vapour
H315: Causes skin irritation
H319: Causes serious eye irritation

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.
P264: Wash hands and forearms thoroughly after handling.
P280: Wear protective gloves/protective clothing/eye protection/face protection.

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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 so. Continue rinsing.

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

P362: Take off contaminated clothing and wash before reuse.

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

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

Storage

P403+P235: Store in a well ventilated place. Keep cool.

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
Coal Tar Naphtha, De-aromatised	65996-76-04	--	650-001-02-05	> 40%
Polymer in solvent	<i>Undisclosed; Proprietary</i>	--	--	< 50%

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.

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.

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5. FIRE-FIGHTING MEASURES

General fire hazards

This product is classified as FLAMMABLE LIQUID. See Section 9 for Flammability Properties.

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, CO₂, 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.

6. ACCIDENTAL RELEASE MEASURES

Emergency measures

Evacuate nonessential personnel and remove or secure all ignition sources. 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. Take up with sand or other oil absorbing materials. Carefully shovel, scoop or sweep up into a waste container for reclamation or disposal. Caution: flammable vapors may accumulate in closed containers.

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7. HANDLING AND STORAGE

Precautions for safe handling

Handle as a combustible liquid. Keep away from heat, sparks, excessive temperatures and open flame! No smoking or open flame in storage, use or handling areas. Bond and ground containers during product transfer to reduce the possibility of static-initiated fire or explosion.

Conditions for safe storage, including any incompatibilities

Keep away from flame, sparks, excessive temperatures and open flame. Keep out of the reach of children. Don't overload shelves or tables with tins of the product. Keep the product in a cool and ventilated place, never at extreme temperatures. 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. Store in a well-ventilated area. Avoid storage near incompatible materials. Keep away from strong oxidizers.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Control Parameters / Occupational Exposure Limits

Occupational exposure limits: pure TLV-TWA = 100 ppm
pure TLV = 200 ppm

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:	Liquid
Odour:	Typical
Flash Point:	> 38°C
Initial boiling point / range:	Not available
Freezing / Melting point:	Not available
Autoignition temperature:	>280°C
Flammability Limits (vol%):	1% – 7.5% (v/v)
Vapor pressure (20°C):	5 mbar
Vapor density:	> 1
Water Solubility (25°C):	Not soluble
Specific Gravity:	Approx. 0.91 – 1.11

10. STABILITY AND REACTIVITY

Chemical stability

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

Possibility of hazardous reactions

This product reacts with strong oxidizing agents and strong acids.

Conditions to avoid

Avoid temperatures of > 35°C and < 10°C, open flames, sparks, welding, smoking & other ignition sources.

Incompatible materials

Keep away from strong oxidizers and strong acids. Reacts with water forming methanol.

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)

Skin and Eye Irritation

The product causes serious skin and eye irritation due to the following component:

- Coal Tar Naphtha, de-aromatized, CAS No.: 65996-76-04 – Skin Irritant (Category 2)
- Serious eye damage (Category 2A)

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165581CC1-2014-AQ-GER-DAMK



165582CC1-2014-AE-GER-DAMK

Respiratory / Skin sensitization

The product is not expected to cause respiratory or skin sensitization.

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)

Based on the available information, this product is not expected to cause damage to any organ after a single or repeated exposure.

12. ECOLOGICAL INFORMATION**Mobility**

Degradable in aerobic-type biological plants. Reacts with water to produce methanol.

Persistence and degradability

No known indications.

Bioaccumulative potential

The product is not known to have bioaccumulation potential, but it is good practice to prevent it being absorbed by the ground. Do not discharge large quantities into cleaning plants.

Toxicity to the Aquatic Environment

This product has no known adverse effects, both short term and long term, to the aquatic environment. Nevertheless, do not discharge into the public water system and do not contaminate surface water courses.

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. Provide the hazardous waste collector the sufficient information on the various hazards of this product.

Disposal of any contaminated packaging

Dried material can be disposed off in authorized landfill site in accordance to national 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 in this container.

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

Shipping Name: RESIN SOLUTION
 UN #: 1866
 Hazard Class: 3
 Packing Group: III

Label:

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

Shipping Name: RESIN SOLUTION
 UN #: 1866
 Hazard Class: 3
 Packing Group: III

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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