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SECTION 1 – STATEMENT OF CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Trade Name:	“SILCOPEL” Water Repellent		
SUPPLIER:	Solutions – Sealers for Stone & Tile.		
ADDRESS:	2/27 Central Park Drive, Yandina QLD 4561, Australia.		
TELEPHONE:	1300 4 STONE (78663)	FAX:	+ 61 7 5446 7381
EMERGENCY PHONE:	13 1126 in Australia 0800 764 766 in New Zealand	Email:	info@solutionssealers.com.au
Substance:	solvent based sealer	Product Use:	Paint for impregnation and treating of tiles and mineral based pavers.
Creation Date:	November 2021	Revision Date:	November 2026

SECTION 2 – HAZARDS IDENTIFICATION

Classification of the substance or mixture	
Poisons Schedule	S5 (PAINTS EXEMPT)
Dangerous Goods	Classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail". Flammable Class 3.3.
GHS Classification	Based on available information, this material is classified as Hazardous according to the Globally Harmonised System of Classification and labelling of Chemicals (GHS7) including Work, Health and Safety regulations, Australia. <ul style="list-style-type: none"> • Flammable Liquids Category 3 • Skin Irritation Category 2 • Specific Target Organ Toxicity Category 3 • Specific Target Organ Toxicity – Repeated Exposure Category 1 • Aspiration Hazard Category 1 • Acute Aquatic Toxicity - Category 3 /Chronic Aquatic Toxicity - Category 3
Label elements	
GHS label pictograms	  
	GHS02 GHS07 GHS08
Signal word	DANGER



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Hazard statement(s)

- H226** Flammable liquid and vapour.
- H315** Causes skin irritation.
- H335** May cause respiratory irritation.
- H372** Causes damage to organs through prolonged or repeated exposure (Central Nervous System).
- H304** May be fatal if swallowed and enters airways.
- H402 / H412** Harmful to aquatic life with long-lasting effects.

Precautionary statement(s): General

- P101** If medical advice is needed, have product container or label at hand.
- P102** Keep out of reach of children.
- P103** Read label before use.

Precautionary statement(s): Prevention

- P210** Keep away from heat, hot surfaces, sparks, open flames and other ignition sources — No smoking.
- P233** Keep container tightly closed.
- P240** Ground and bond container and receiving equipment.
- P241** Use explosion-proof [electrical/ventilating/lighting/...] equipment.
- P242** Use non-sparking tools.
- P243** Take action to prevent static discharges.
- P280** Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
- P264** Wash hands and skin thoroughly after handling.
- P271** Use only outdoors or in a well-ventilated area.
- P260** Do not breathe fume/gas/mist/vapours/spray.
- P264** Wash hands and skin thoroughly after handling.
- P270** Do not eat, drink or smoke when using this product.
- P273** Avoid release to the environment.

Precautionary statement(s): Response

- P303+P361+P353** IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
- P370+P378** In case of fire: Use foam, water spray or fog, dry chemical powder or carbon dioxide to extinguish.
- P302+P352** IF ON SKIN: Wash with plenty of soap and water.
- P321** Specific treatment (see First Aid Measures on this label).
- P332+P313** If skin irritation occurs: Get medical advice/attention.
- P362 +P364** Take off contaminated clothing and wash it before reuse.
- P304 + P340** IF INHALED: remove person to fresh air and keep comfortable for breathing.
- P312** Call a POISON CENTER/doctor/...if you feel unwell.
- P314** Get medical advice/attention if you feel unwell.
- P301+P310** IF SWALLOWED: Immediately call a POISON CENTER/doctor/...
- P331** Do NOT induce vomiting.

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Precautionary statement(s): Storage

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

P405 Store locked up.

P233 Keep container tightly closed.

Precautionary statement(s): Disposal

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

Note

IMPORTANT This SDS and the Hazard Classifications contained therein, only apply to the product in its concentrated form, as supplied.

SECTION 3 – COMPOSITION AND INFORMATION ON INGREDIENTS

Ingredients:	CAS Number:	Proportion:
Naphtha (petroleum), hydrodesulphurized heavy (Low Aromatic White Spirit)	64742-82-1	>60 % w/w
With components:		
1,2,4-Trimethylbenzene	95-63-6	<10% w/w
1,3,5-Trimethylbenzene	108-67-8	<10% w/w
Xylene, Mixed Isomers	1330-20-7	<10% w/w
alkylsilicone resin with alkoxy groups	Trade secret	<10% w/w
Note – contains < 0.1% benzene	various	<10% w/w

NOTE: Ingredients determined not to be hazardous are present in concentrations that do not exceed the relevant cut-off concentrations as found from NOHSC publication "List of Designated Hazardous Substances" or have been found NOT to meet the criteria of a hazardous substance as defined in the NOHSC publication "Approved Criteria for Classifying Hazardous Substances", or have been found NOT to meet the criteria of a dangerous substance as defined in the GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION AND LABELLING OF CHEMICALS (GHS). Listed ingredients may be below the cut-off concentrations for classification as hazardous, but are listed for information purposes and for additive effects.

SECTION 4 – FIRST AID MEASURES

Inhalation	<p>If exposure to vapour, mists or fumes causes drowsiness, headache, blurred vision or irritation of the eyes, nose or throat, remove immediately to fresh air. Keep patient warm and at rest. If any symptoms persist, obtain medical advice.</p> <p>Unconscious casualties must be placed in the recovery position. Monitor breathing and pulse rate and if breathing has failed, or is deemed inadequate, respiration must be assisted, preferable by the mouth to mouth method. Administer external cardiac massage if necessary. Seek medical attention immediately.</p>
Skin contact	<p>Immediately wash contaminated skin with plenty of soap and water. Remove contaminated clothing and wash before re-use. Seek medical advice (e.g. doctor) if irritation, burning or redness persists.</p>

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Eye contact	If in eyes, hold eyelids apart and flush the eyes continuously with running water. Remove contact lenses. Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes. If symptoms persist, seek medical attention.
Ingestion	If swallowed, do NOT induce vomiting. Transport to nearest medical facility for additional treatment. If vomiting occurs spontaneously, keep head below hips to prevent aspiration.
Advice to Doctor	Treat symptomatically.
Scheduled Poisons	Poisons Information Centre in each Australian State capital city or in Christchurch, New Zealand can provide additional assistance for scheduled poisons. (Phone Australia 131126 or New Zealand 0800 764 766).
First Aid Facilities	Eye wash station. Normal washroom facilities.

SECTION 5 – FIRE FIGHTING MEASURES

Fire and Explosion Hazards	Flammable liquid. Product may form flammable/explosive vapour-air mixture during use.
Extinguishing Media	Foam, water spray or fog, dry chemical powder or carbon dioxide. Do not use water in a jet.
Fire Fighting	Wear full protective clothing and self-contained breathing apparatus. Hazchem code 3Y.
Flash Point	Flash point ~42 °C

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Emergency Procedures	<p>HAZCHEM code : •3Y</p> <p>3 = use foam extinguisher to fight fires.</p> <p>Y = Yes – risk of violent reaction, recommend breathing apparatus, contain.</p> <ul style="list-style-type: none"> ● Shut off engine and electrical equipment off. ● No smoking or naked lights within 50 metres. ● Move people from immediate area; keep upwind. ● Send messenger to notify fire brigade and police. ● Tell them location, material quantity, UN number and emergency contact. Indicate condition of vehicle and damage or injuries observed. ● Warn other traffic. ● Ensure an escape path is always available from any fire. Fires in confined spaces should be dealt with by trained personnel wearing approved breathing apparatus. ● If gas has ignited, do not attempt to extinguish but stop gas flow and allow to burn out. Use water spray to cool heat exposed bulk tanks, and to protect surrounding areas and personnel effecting shut-off. DO NOT USE water jets. ● Every precaution must be taken to keep containers cool to avoid the possibility of a boiling liquid expanding vapour explosion (BLEVE). ● Ensure good ventilation. ● Where appropriate, use water spray to disperse the gas or vapour and to protect personnel attempting to stop leakage. ● Vapour may collect in any confined space.
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Occupational Release

- Minor spills do not normally need any special clean-up measures.
- In the event of a major spill, prevent spillage from entering drains or water-courses.
- If spillage has occurred in a confined space, ensure adequate ventilation and check that a safe, breathable atmosphere is present before entry.
- Do not enter a vapour cloud except for rescue; self-contained breathing apparatus must be worn.
- Wear protective clothing. See Exposure Controls/Personal Protection (section 8) of the Safety Data Sheet.
- In the event of a leak, contact the appropriate authorities.
- Small quantities of spilled liquid may be allowed to evaporate.
- Vapour should be dispersed by effective ventilation.
- If contamination of sewers or waterways has occurred advise the local emergency services.
- In the event of a large spillage notify the local environment protection authority or emergency services.





SECTION 7 – HANDLING AND STORAGE

Handling	<ul style="list-style-type: none"> • Ensure good ventilation. • Avoid inhalation of vapour. • Avoid contact with liquid. • Avoid contact with eyes.
Storage	<ul style="list-style-type: none"> • Refer to relevant regulations for storage and transport requirements. • Store in a cool place and out of direct sunlight. • Store in a well ventilated area. • Store away from sources of heat or ignition, oxidising agents and combustible materials. • Keep containers closed at all times – check regularly for leaks.

SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Limits	<p>National Occupational Exposure Limits, as published by National Occupational Health & Safety Commission:</p> <p>Time-weighted Average (TWA): None established for product. In the absence of data from National Occupational Health & Safety Commission (NOHSC) Worksafe Australia use - Mineral Spirits 150-200 HSPA: 350mg/m³ TWA (8hr). Xylene: 350mg/m³ (80ppm) TWA (8hr)</p> <p>Short Term Exposure Limit (STEL): None established for product. Xylene: 655mg/m³ (150ppm) STEL</p>
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Ventilation	Ensure ventilation is adequate to maintain air concentrations below exposure standards. Use only in a well-ventilated area. Ensure airflow, where this product is used, is directed away from the operators.
Personal Protective Equipment	Use good occupational work practice. The use of protective clothing and equipment depends upon the degree and nature of exposure. The following protective equipment should be available;
Eye Protection 	Safety glasses should be used for handling concentrate in quantity, cleaning up spills, decanting, etc. Eye protection devices should conform to relevant regulations. Eye protection should conform with Australian/New Zealand Standard AS/NZS 1337 - Eye Protectors for Industrial Applications.
Hand Protection 	Use solvent resistant gloves, nitrile for longer term protection or PVC and neoprene for incidental splashes – to handle in quantity, clean up spills, decanting, etc. Final choice of appropriate gloves will vary according to individual circumstances. i.e. methods of handling or according to risk assessments undertaken. Occupational protective gloves should conform to relevant regulations. Reference should be made to AS/NZS 2161.1: Occupational protective gloves - Selection, use and maintenance.
Body Protection 	Suitable protective workwear, e.g. rubber or plastic apron, sleeves, boots and cotton overalls buttoned at neck and wrist are recommended. Chemical resistant apron is recommended where large quantities are handled.
Respirator 	If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable vapor/mist filter should be used. Refer to relevant regulations for further information concerning respiratory protective requirements. Reference should be made to Australian Standards AS/NZS 1715, Selection, Use and Maintenance of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Protective Devices, in order to make any necessary changes for individual circumstances.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Non-viscous liquid	Colour	Clear
Odour	characteristic odour	Specific Gravity	0.78 – 0.83 @ 25 °C
Boiling Point	149 – 194 °C	Freezing Point	Not available
Vapour Pressure	Typical 0.37	Vapour Density	4.35
Flash Point	~42 °C	Flammable Limits	0.7 - 6.5 % v/v
Water Solubility	Miscible	pH	Not available
Volatile Organic Compounds (VOC)	~95 % v/v	Per Cent Volatile	~95 % v/v
Viscosity	Not available	Odour Threshold	Not available

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SECTION 10 – STABILITY AND REACTIVITY	
Reactivity	Stable at normal temperatures and pressure.
Conditions to Avoid	Avoid heat, sparks, open flames and other ignition sources.
Incompatibilities	Avoid contact with strong oxidizing agents (ie: Chlorine, Pool chlorine, Nitric Acid, etc).
Hazardous Decomposition	Thermal decomposition is highly dependent on conditions. A complex mixture of airborne solids, liquids, gases, including carbon monoxide, carbon dioxide and other organic compounds will be evolved when this material undergoes combustion or thermal or oxidative degradation.

SECTION 11 – TOXICOLOGICAL INFORMATION	
POTENTIAL HEALTH EFFECTS	
No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:	
Inhalation	Breathing of high vapour concentrations may cause central nervous system depression resulting in dizziness, light-headedness, headache, nausea and loss of coordination. Continuous inhalation may result in unconsciousness and death.
Skin contact	May include redness and cracking. Skin irritant category 2.
Eye contact	Vapours and liquid may be irritating to eyes.
Ingestion	Expected to be of low toxicity - LD50 ATE Oral (rat) > 2,000mg/kg. May cause irritation to the mouth, throat, oesophagus and stomach with symptoms of nausea, abdominal discomfort, vomiting and diarrhoea, coughing, choking, wheezing, difficulty in breathing, chest congestion, shortness of breath, and/or fever.
Chronic exposure	No known effects.
Toxicology Information	Not toxic, based on ingredients. Oral LD50 : >2,000 mg/kg.
Carcinogen Status	
NOHSC	No significant ingredient is classified as carcinogenic by NOHSC.
NTP	No significant ingredient is classified as carcinogenic by NTP.
IARC	No significant ingredient is classified as carcinogenic by IARC.
Respiratory sensitisation	Not expected to be a respiratory sensitizer.
Skin Sensitisation	Not expected to be a skin sensitizer.
Germ cell mutagenicity	Not considered to be a mutagenic hazard.
Reproductive Toxicity	Not considered to be toxic to reproduction.
STOT-single exposure	Inhalation of vapours or mists may cause irritation to the respiratory system.
STOT-repeated exposure	Central nervous system: repeated exposure affects the nervous system. Effects seen at high doses only. Auditory system: prolonged and repeated exposures to high concentrations have resulted in hearing loss in rats. Solvent abuse and noise interaction in the work environment may cause hearing loss.
Aspiration Hazard	This product is rated as an aspiration hazard - May be fatal if swallowed and enters airways. Small amounts of liquid aspirated into the lungs during ingestion or from vomiting may cause

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chemical pneumonitis or pulmonary oedema. This can be fatal. As the product is hydrocarbon based, if the product has been ingested or vomiting has occurred after ingestion, the patient must seek urgent medical attention and should be monitored for adverse effects.

SECTION 12 – ECOLOGICAL INFORMATION

Acute Aquatic Toxicity Product (as sold)

Acute Aquatic Toxicity - Category 3 /Chronic Aquatic Toxicity - Category 3
H402 / H412: Harmful to aquatic life with long-lasting effects.

Persistence and degradability

Acute Aquatic Toxicity (ATE Calculated) LC50 fish: 10 - 100 mg/L.
Biodegradable, based on ingredients. Hydrocarbon solvents would be expected to evaporate largely to the atmosphere. Hydrocarbon solvents are expected to be moderately toxic to aquatic organisms.

Bio accumulative potential

Has the potential to bioaccumulate.

Mobility in soil

Spillages are unlikely to penetrate the soil. Floats on water.

Other adverse effects

Not available

Environmental Protection

Do not discharge this material into waterways.

SECTION 13 – DISPOSAL CONSIDERATIONS

'EMPTY' container warning: 'empty' containers retain residue (liquid and/or vapour) and can be dangerous.

DO NOT PRESSURISE CUT, WELD, BRAZE, SOLDER, DRILL, GRIND OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, AND OTHER SOURCES OF IGNITION, THEY MAY EXPLODE AND CAUSE INJURY OR DEATH.

Refer to State And Waste Management Authority.

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SECTION 14 – TRANSPORT INFORMATION

Labels Required

ADG	 CLASS 3 .3 FLAMMABLE
IMDG Marine Pollutant	No
HAZCHEM	•3Y
Land Transport (ADG)	
UN Number	1263
Proper Shipping Name	PAINTS
ADG Code	CLASS 3 .3 FLAMMABLE
HAZCHEM Code	•3Y
Special Provisions	
Packing Group	III
Packaging Method	None allocated
Segregation	Segregation Class 3 – Flammable liquid shall not be loaded in the same vehicle or packed in the same freight container with: Class 1, Explosives Class 2.1, Flammable Gases, if both the Class 3 and Class 2.1 dangerous goods are in bulk Class 2.3, Toxic Gases Class 4.2 Spontaneously Combustible Substances Class 5.1 Oxidising Agents and Class 5.2, Organic Peroxides Class 6 Toxic Substances (where the flammable liquid is nitromethane) Class 7 Radioactive Substances. Foodstuff and foodstuff empties.

SECTION 15 – REGULATORY INFORMATION

GHS Classification	Classified as Hazardous according to the Globally Harmonised System of Classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia.
SUSMP	S5 (PAINTS – EXEMPT)
ADG Code	CLASS 3.3 FLAMMABLE
AICS	All ingredients present on AICS.



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SECTION 16 – OTHER INFORMATION

Issue Date	27 th November 2021
Version Number	V 3.0 GHS7 classification
Prepared by	This Safety Data Sheet has been prepared by Tuwai Specialties on behalf of its client. tuwai.wt@bigpond.com
Abbreviations and acronyms	<p>ADG Code: Australian Code for the Transport of Dangerous Goods by Road and Rail.</p> <p>AICS: Australian Inventory of Chemical Substances.</p> <p>CAS Number: Chemical Abstracts Service Registry Number.</p> <p>GHS: Globally Harmonized System of Classification and Labelling of Chemicals</p> <p>HAZCHEM: An emergency action code of numbers and letters which gives information to emergency services.</p> <p>HSIS: Hazardous Substances Information System</p> <p>IARC: International Agency for Research on Cancer.</p> <p>NOHSC: National Occupational Health and Safety Commission.</p> <p>NTP: National Toxicology Program (USA).</p> <p>SDS: Safety Data Sheet</p> <p>STEL: Short Term Exposure Limit.</p> <p>SUSMP: Standard for the Uniform Scheduling of Medicines and Poisons.</p> <p>TWA: Time Weighted Average.</p> <p>UN Number: United Nations Number.</p>
Literature references	<p>Preparation of Safety Data Sheets for Hazardous Chemicals – Code of Practice (Safe Work Australia)</p> <p>GHS Hazardous Chemical Information List (Safe Work Australia)</p> <p>Guidance on the Classification of Hazardous Chemicals under the WHS Regulations.</p> <p>Global Harmonized System of Classification and Labelling of Chemicals (GHS)</p> <p>“Australian Exposure Standards”. Safework Australia</p> <p>Australian Code For The Transport Of Dangerous Goods By Road And Rail</p> <p>Standard for the Uniform Scheduling of Medicines and Poisons</p> <p>Material Safety Data Sheets – individual raw materials – Suppliers</p> <p>HSIS – Hazardous Substance Information System – National Safe Work Australia Data Base.</p> <p>HCIS – Hazardous Chemical Information System – National Safe Work Australia Data Base.</p>
Disclaimer	This MSDS summarizes at the date of issue our best knowledge of the health and safety hazard information of this product, and in particular how to safely handle and use this product in the workplace. Since the supplier cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, review this MSDS in the context of how the user intends to handle and use the product in the workplace. If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact this supplier.

End of SDS