SECTION 1 – STATEMENT OF CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Trade Name:	**“PROTEX” SEALER**		
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:**	Solvent borne fluoro based sealer.
Creation Date:	May 2023	**Revision Date:**	May 2028

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 3.2
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. • **Flammable liquids - Category 2** • **Skin Corrosion/Irritation Category 2** • **Eye Irritation Category 2A**
Label elements	
GHS label pictograms	 GHS02  GHS07
Signal word	**DANGER**
Hazard statement(s)	
H225	Highly flammable liquid and vapour.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
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.
P264	Wash hands and skin thoroughly after handling.
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 alcohol resistant foam, water spray or fog, dry chemical powder or carbon dioxide to extinguish.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313	If eye irritation persists: Get medical advice/attention.
P302+P352	IF ON SKIN: Wash with plenty of 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.
Precautionary statement(s): Storage	
P403 + P235	Store in a well-ventilated place. Keep cool.
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:
Ethanol	64-17-5	> 60 % w/w
Distillates (petroleum), light fraction	64742-47-8	<10% w/w
Dipropylene Glycol Monomethyl Ether	34590-94-8	<10% w/w
Ethylene glycol monobutyl ether	111-76-2	<10% w/w
Fluoro acrylic	NA	<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 Safe Work Australia: Hazardous Chemical Information System (HCIS), European Chemicals Agency (ECHA), or have been found NOT to meet the criteria of a hazardous substance as defined in the Safe Work Australia 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 (GHS7). 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	Remove victim from exposure if safe to do so. If rapid recovery does not occur, transport to nearest medical facility for additional treatment. Remove contaminated clothing
Skin contact	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.
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	Highly flammable liquid. Product may form flammable/explosive vapour-air mixture during use.
Extinguishing Media	Alcohol resistant 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 ~15 °C

SECTION 6 – ACCIDENTAL RELEASE MEASURES	
Emergency Procedures	HAZCHEM code : •3YE 3 = use foam extinguisher to fight fires. Y = Yes – risk of violent reaction, recommend breathing apparatus, contain. • 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.
	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	• Ensure good ventilation. • Avoid inhalation of vapour. • Avoid contact with liquid. • Avoid contact with eyes.
Storage	• 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	National Occupational Exposure Limits, as published by SAFEWORK AUSTRALIA: **Time-weighted Average (TWA):** None established for product. For ingredients: • Ethanol: 1000ppm 1880mg/m3 • Dipropylene glycol (mono) methyl ether: 50ppm, 308 mg/m3. • Ethylene glycol monobutyl ether: 20ppm, (96.9 mg/m3) **Short Term Exposure Limit (STEL):** None established for product. • Ethylene glycol monobutyl ether: 50 ppm, (242 mg/m3)
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**	0.80 – 0.83 @ 25 ºC
Boiling Point	78 – 186 ºC	**Freezing Point**	Not available
Vapour Pressure	Not available	**Vapour Density**	Not available
Flash Point	~15 ºC	**Flammable Limits**	3.5 - 19.0 % v/v (ethanol)
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

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	Moderately irritating to respiratory system and mucous membranes. Inhalation of vapour may result in headaches, nausea and vomiting. High concentrations may be harmful.
Skin contact	Mild irritant. Prolonged contact may cause defatting of skin which can lead to dermatitis.
Eye contact	Vapours may irritate the eyes. Liquid or mists may severely irritate or damage the eyes.
Ingestion	Expected to be of low toxicity - LD50 ATE Oral (rat) > 5,000mg/kg. Low toxicity. Ingestion may result in gastrointestinal irritation, nausea, vomiting, abdominal pain, diarrhoea, headache, dizziness and drowsiness with large doses. This product containing 2-Butoxyethanol may cause headache, dizziness, light-headedness, confusion, and passing out, and may damage the liver and kidneys on ingestion.
Chronic exposure	Possible red blood cell changes (moderate exposure), kidney or liver damage (high exposure).
Toxicology Information	Not toxic, based on ingredients. Oral LD50: >5,000 mg/kg.
Carcinogen Status	
SAFEWORK	No significant ingredient is classified as carcinogenic by SAFEWORK.
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	Not expected to cause toxicity to a specific target organ.
STOT-repeated exposure	Not expected to cause toxicity to a specific target organ.
Aspiration Hazard	Not expected to be an aspiration hazard.

SECTION 12 – ECOLOGICAL INFORMATION

Acute Aquatic Toxicity Product (as sold)	No expected damaging effects to aquatic organisms. According to current knowledge adverse effects on water purification plants are not expected.
Persistence and degradability	Not available.
Bio accumulative potential	Has the potential to bioaccumulate.
Mobility in soil	Not available.
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.

SECTION 14 – TRANSPORT INFORMATION

Labels Required	
ADG	 CLASS 3 .2 FLAMMABLE
IMDG Marine Pollutant	No
HAZCHEM	•3YE
Land Transport (ADG)	
UN Number	1263
Proper Shipping Name	PAINTS
ADG Code	CLASS 3 FLAMMABLE
HAZCHEM Code	•3YE
Special Provisions	
Packing Group	II
Packaging Method	P001 IBC02

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 FLAMMABLE
AICS	All ingredients present on AICS.

SECTION 16 – OTHER INFORMATION	
Issue Date	8th May 2023
Version Number	V 4.0 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	**ADG Code**: Australian Code for the Transport of Dangerous Goods by Road and Rail. **AICS:** Australian Inventory of Chemical Substances. **CAS Number**: Chemical Abstracts Service Registry Number. **GHS**: Globally Harmonized System of Classification and Labelling of Chemicals **HAZCHEM:** An emergency action code of numbers and letters which gives information to emergency services. **HSIS:** Hazardous Substances Information System **IARC**: International Agency for Research on Cancer. **NOHSC**: National Occupational Health and Safety Commission. **NTP**: National Toxicology Program (USA). **SDS**: Safety Data Sheet **STEL**: Short Term Exposure Limit. **SUSMP**: Standard for the Uniform Scheduling of Medicines and Poisons. **TWA**: Time Weighted Average. **UN Number**: United Nations Number.
Literature references	Preparation of Safety Data Sheets for Hazardous Chemicals – Code of Practice (Safe Work Australia) GHS Hazardous Chemical Information List (Safe Work Australia) Guidance on the Classification of Hazardous Chemicals under the WHS Regulations. Global Harmonized System of Classification and Labelling of Chemicals (GHS) “Australian Exposure Standards”. Safework Australia Australian Code For The Transport Of Dangerous Goods By Road And Rail Standard for the Uniform Scheduling of Medicines and Poisons Safety Data Sheets – individual raw materials – Suppliers HSIS – Hazardous Substance Information System – National Safe Work Australia Data Base. HCIS – Hazardous Chemical Information System – National Safe Work Australia Data Base.

Disclaimer	This SDS 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 SDS 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