TECH-DRY BUILDING PROTECTION SYSTEMS PTY. LTD.
ABN 62 922 836 289
177-179 Coventry Street,
South Melbourne, Victoria, 3205, Australia
Telephone: 61 3 9699 8202 (all hours)
Facsimile: 61 3 9696 3362
Web: www.techdry.com.au

MATERIAL SAFETY DATA SHEET

Date of issue: 01/01/2023

1. Identification of material and supplier

Product name SOLID SILANE

Product code RPSS80

Recommended use Water repellent penetrating sealer for masonry.

Manufacturer's details

Manufacturer:	Tech-Dry Building Protection Systems Pty. Ltd.
Address:	177-179 Coventry Street South Melbourne, Victoria 3205, Australia
Telephone:	61 3 9699 8202
Facsimile:	61 3 9696 3362
Website:	www.techdry.com.au
E-mail:	admin@techdry.com.au

Emergency phone number: 61 3 9699 8202 (all hours)

2. Hazards identification

Classification

Classified as hazardous according to the criteria of Safe Work Australia.

Class	Category	Route of exposure
Flammable liquids	4	
Skin irritation	2	

Label content

Signal word Warning

Hazard Code	Hazard Statements
H227	Combustible liquid.
H315	Causes skin irritation.
H319	Causes eye irritation.

Precautionary Code	Precautionary Statements
P210	Keep away from heat, hot surfaces, sparks, flamers and ignition sources
P280	Wear protective gloves/protective clothing/eye protection.
P261	Avoid breathing spray
P264	Wash skin thoroughly after handing.
P271	Use only outdoors or in a well-ventilated area.
P403+P235	Store in a well ventilated place. Keep cool.
P501	Dispose of contents/container to waste disposal.

Other hazards

Product may contain small amount of ethanol from either existing in the product or the hydrolysis of silanes contained in this product during storage, transport and application. Ethanol are flammable (F R11, Xn R20, Xi R36/37) and the vapours may form explosive mixture with air.

3. Composition and ingredients

Substances: not applicable

Mixtures: Alkyl silanes and siloxane in water.

Ingredients

Chemical name	CAS number	Proportion (% w/w)
Alkyl silanes/siloxane	n/a	<90%
Ethanol	64-17-5	>=0 - <=5%

Note: The material consists of further ingredients determined not to be hazardous or below their cut-off limits may not be listed in the above table.

4. First-aid measures

General information:
In case of accident or if you feel unwell, contact a doctor or Poisons Information Centre (Phone Australia 131 126). When symptoms persist or in all cases of doubt, seek medical advice.

Inhalation
If inhaled, remove patient to fresh air. Remove contaminated clothing and loosen remaining clothing. Seek prompt medical advice if symptoms occur.

Skin contact
If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water for at least 15 minutes. Rinse with plenty of water with soap if required. Seek medical advice if irritation persists. Wash clothing before reuse.

Eye contact
If in eyes, rinse immediately with plenty of water. Seek medical advice if irritation develops and persists.

Ingestion
If swallowed, rinse mouth with water. Do not induce vomiting. Give a glass of water to drink. Never give anything by the mouth to an unconscious patient. If vomiting occurs give further water. Seek prompt medical advice.

Most important symptoms and effects, both acute and delayed
Causes skin irritation.

Protection of first-aiders
Fist aid responders should pay attention to self-protection and use the recommended personal protective equipment when the potential for exposure exists.

Notes to physician
Treat symptomatically and supportively.

5. Fire-fighting measures

Fire fighting further advice:
If safe to do so, remove containers from path of fire. Keep containers cool with water spray. On burning, it may emit toxic fumes. Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to vapour or products of combustion.

Suitable extinguishing media
If material is involved in a fire, use water fog (or if unavailable, use fine water spray), alcohol-resistant foam, carbon dioxide, dry chemical powder, or sand.

Unsuitable extinguishing media for safe reasons
Water jet.

Specific hazards during fire fighting
Vapours may form explosive mixtures with air.
Exposure to combustion products may be a hazard to health.

Hazardous combustion products
Carbon oxides
Silicone oxides
Formaldehyde

Special protective equipment for fire fighting
In the event of fire, wear self-contained breathing apparatus.
Use personal protective equipment.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures
Remove all sources of ignition. Keep unprotected persons away.
Use personal protective equipment. Follow safe handling advice and personal protective equipment recommendations.
Avoid contact with eyes and skin.
Avoid inhaling mists and vapours.
If material is released, indicate risk of slipping.

Environmental precautions
Prevent material from entering surface waters, drains or sewers and soil. Contain any fluid using suitable material (e.g. earth). Retain contaminated water/extinguishing water. Dispose of the material in prescribed and marked containers according to local regulations.

Methods for cleaning up
Shut off all possible sources of ignition. Do not flush away with water. For small amounts of spills, absorb with a liquid binding material such as diatomaceous earth, and collect and seal in properly labeled containers and dispose of according to local/state/federal regulations. For large spills, if possible, pump up the material into suitable container for disposal to prevent run off into drains and waterways. Clean up any slippery liquid that remains using a detergent/soap solution or biodegradable cleaner. If contamination of sewers or waterways has occurred, advise local emergency services.

7. Handling and storage

General information
Refer to exposure controls /personal protection section.
Always stir well before use.

Local and total ventilation
Use with adequate ventilation.

Advice on safe handling
Handle in accordance with good industrial hygiene and safety practice. Do not get on skin or clothing. Avoid inhalation of vapour or mist. Do not swallow. Avoid contact with eyes.
Keep container tightly closed. Keep away from water and protect from moisture.
Keep away from heat and sources of ignition. Take precautionary measures against static discharges.
Take care to prevent spills, waste and minimise release to the environment.

Conditions for safe storage
Consult AS1940 and relevant state or territory regulations on safe storage and handling. Store in a cool and well-ventilated area away from heat, fire and ignition sources. Store out of direct sunlight and store sway from incompatible materials described in Section 10. Keep containers closed when not in use. Check regularly for leaks.

Regulation and standards (Australia)
The product contains up to 90% or more organic materials which are combustible. Product may also contain small amount of ethanol which are flammable materials. Product should be stored in accordance with AS 1940 Storage & Handling of Flammable & Combustible Liquids.

Precautions against fire and explosion
Product may contain small amount of ethanol which are flammable materials. Flammable vapours may accumulate or form explosive mixtures with air in containers including partial, empty or unclean containers or vessels or any enclosed spaces. Keep away from sources of ignition and do not smoke. Take precautionary measures against electrostatic charging. Cool endangered containers with water.

8. Exposure controls/personal protection

Exposure limits
There is no value assigned for this specific material by Safe Work Australian. However, small amount of ethanol may exist in the product.

The standard exposure of ethanol and according to the occupational exposure limits are:

Ingredients	CAS number	Value (Form of exposure)	Control parameters & permissible concentration	Basis
Ethanol	64-17-5	TWA	1,000 ppm 1,900 mg/m3	NIOSH REL

Biological limit values
There is no value allocated for this material as per the “National Model Regulations for the Control of Workplace Hazardous Substances (Safe Work Australia)”.

Engineering measures
Processing may form hazardous compounds (refer section 10). Use with adequate ventilation.

Personal protection equipment:
Use with adequate ventilation. Do not inhale mist/vapours/aerosols. Do not eat, drink or smoke when handling this material. Wear chemical and solvent resistant safety glasses or goggles, impervious gloves and protective clothing. Wear approved respiratory protection according to AS1715/1716 if there is a risk of exposure to mist or intensive vapour concentrations. Wash hands after handling.

Exposure to the environment limited and controlled
Prevent material from entering surface water, sewer and soil.

9. Physical and chemical properties

General information

Appearance:	cream(emulsion)
Colour:	white
Odour:	faint
pH value:	approx. 7-9
Melting point/range:	0 °C
Initial boiling point/range:	n/a
Flash point:	n/a
Evaporation rate:	n/a
Flammability:	n/a
Upper explosion limit:	n/a
Lower explosion limit	n/a
Relative density (20 °C):	approx.0.90 g/ml
Solubility in water:	miscible
Autoignition point:	n/a
Decomposition temperature	n/a
Viscosity (20 °C):	n/a
Total VOC (g/litre);	n/a

10. Stability and reactivity

Reactivity and chemical stability
Not classified as a reactivity hazard. Stable under normal conditions.

Possible of hazardous reactions
The product contains up to 90% or more organic materials which are combustible. Vapours may form explosive mixture with air. Use at elevated temperatures may form highly hazardous compounds. Can react with strong oxidizing agents. When heated to a temperature above 150°C in the presence of air, product can form formaldehyde vapours. Hazardous decomposition products will be formed upon contact with water or humid air. Hazardous decomposition products will be formed at elevated temperature.

Conditions to avoid
Exposure to heat, flames and sparks.

Incompatible materials
Oxidizing agents and water.

Hazardous decomposition products
Hydrolyse to release ethanol particularly at elevated temperature or in contact with masonry or alkaline substances.
Thermal decomposition product: formaldehyde

11. Toxicological information

General information
No damaging effect is expected when treated in accordance with standard industrial practices and local regulations according to the present knowledge.

Toxicological tests
There is no toxicological test data allocated to this specific material.

Acute effects
Inhalation: Material may be irritant to mucous membranes and respiratory tract.

Skin contact: Contact with skin will result in irritation.

Eye contact: May be an eye irritant.

Ingestion: Swallowing can result in nausea, vomiting and irritation of the gastrointestinal tract. May cause lung damage if swallowed. Small amounts of liquid aspirated into the respiratory system during ingestion or vomiting may cause bronchopneumonia or pulmonary oedema.

Long term effects: No information available for this specific material.

Acute toxicity/chronic toxicity: No LD50 data available for this product.

12. Ecological information

General information
Avoid contaminating waterways

Ecotoxicity
No information available for this specific material.

Persistence and degradability
Silicone ingredients are not readily biodegradable. Ethanol are readily biologically degradable. Other hydrolysis products such as silanol or siloxanol can form polysiloxane. Elimination of polymers is by adsorption to activated sludge.

Mobility:
Silicone content can be absorbed by floating particles and separated by sedimentation.

Bio-accumulation potential
Bioaccumulation is not expected to occur according to current knowledge.

Other harmful effects
Under current knowledge there are none other known harmful and ecological effects are expected if handled and treated in accordance with standard industrial practices and regulations.

13. Disposal considerations

Material
Dispose of according to regulations by incineration in a special waste incinerator. Observe local/state/federal regulations.

Unclean packaging
It is recommended to completely discharge containers. Containers may be recycled or re-used. Observe local/state/federal regulations.

14. Transportation information

General information

Product name:	SOLID SILANE
Proper shipping name:	Combustible liquid N.O.S.
Manufacturer's code:	RPSS80
UN number:	Not allocated
D.G. class:	Not allocated
Subsidiary risk:	Not allocated
Hazchem code:	Not allocated
Poisons schedule no:	Not allocated
Package group:	Not allocated

Road and rail transport
Not classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail"

Marine transport
Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

Air transport
Not classified as Dangerous Goods by the criteria of the international Air Transport Association (IATA) Dangerous Goods Regulations for transport by air

15. Regulatory information

National and local regulations
National/local regulations must be observed accordingly for labeling, handling, transport and storage.

Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP) Australia
Not allocated

Other international regulations
Ingredients containing in this product are listed on or in accordance with the following inventories but not limited to:

South Korea:	ECL (Existing Chemical Lost) This product is listed in or complies with the substance inventory.
Japan:	ENCS (Handbook of Existing and New Chemical substances) This product is listed in or complies with the substance inventory.
Australia:	AICS (Australian Inventory of Chemical substances) This product is listed in or complies with the substance inventory.
China:	IECS (Inventory of Existing Chemical Substances in China) This product is listed in or complies with the substance inventory.
Canada:	DSL (Domestic Substance List) This product is listed in or complies with the substance inventory.
Philippines:	PICCS (Philippine Inventory of Chemicals and Chemical Substances) This product is listed in or complies with the substance inventory.
USA	TSCA (Toxic Substance Control Act Chemical Substance Inventory) This product is listed in or complies with the substance inventory.
Taiwan	TCSI (Taiwan Chemical substance Inventory) This product is listed in or complies with the substance inventory.
Europe (EEA)	REACH (Regulation (EC) No 1907/2006 This product is listed in or complies with the substance inventory.

16. Additional information

Product and material safety information
To the best of our knowledge, the information sources for the product were correct and complete at the time of preparing this document. The information is therefore subject to update from time to time and is not guaranteed. This document is taken as a safety guide for the product and its recommended uses but is in no way an absolute authority. Consult the relevant legislation and regulations governing the use and storage of this type of product or any material existing within the product. More product information can be found in the product date sheet or from the manufacturer.

Further information
Product may contain small amount of ethanol from either existing in the product or the hydrolysis of silanes contained in this product. Ethanol (F R11, Xn R20, Xi R36/37) are flammable and the vapours may form explosive mixture with air.

Further information and contact
For further information please contact Tech-Dry on: 61-3-9699 8202 (all hours).