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MATERIAL SAFETY DATA SHEET

PROTECTASEAL S

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1. Identification of material and supplier

Product name	PROTECTASEAL S
Product code	RPPSS
Recommended use	Penetrating oil and water repellent 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
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Emergency phone number:	61 3 9699 8202 (all hours)

2. Hazards identification

Classification

Classified as dangerous good & hazardous substance according to the criteria of Safe Work Australia.

Class	Category	Route of exposure
Flammable liquids	Category 2	
Skin irritation	Category 2	
Specific target organ toxicity – single exposure	Category 3	

Label content

Pictograms



Hazard Code	Hazard Statements
H226	Flammable liquid
H319	Causes eye irritation.

H315	Causes skin irritation.
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Precautionary Code	Precautionary Statements
Preventions	
P102	Keep out of reach of children
P103	Read label before use.
P210	Keep away from heat, sparks, open flames and hot surfaces. No smoking.
P261	Avoid breathing spray.
P264	Wash skin thoroughly after handling.
P270	Do not eat, drink, or smoke when using this product
P271	Use only outdoors or in a well ventilated area.
P280	Wear protective gloves, eye protection and face protections.
Response	
P302 + P352	If on skin, wash with plenty of water with soap.
P332 + P313	If skin irritation occurs, seek medical advice/attention.
P362 + P364	Take off contaminated clothing and wash it before re-use.
P304 + P340	If inhaled, remove person to fresh air and keep comfortable for breathing
P305 + P351	If in eyes, rinse cautiously with water for several minutes
P352	If exposed or concerned, get medical advice/attention
Storage	
P404	Store in a closed container
P403 + P235	Store in a well ventilated place. Keep cool.
Disposal	
P501	Dispose of contents/containers to an approved waste disposal place.

Other hazards

Vapours may form explosive mixture with air.

Product may hydrolyse during storage or at elevated temperature or under extreme conditions to release ethanol (CAS: 64-17-5) which is flammable.

3. Composition and ingredients

Substance: N/A

Mixture: This product is a mixture

The following components in this product are considered hazardous

Chemical name	CAS number	Proportion (% w/w)
n-octyltriethoxysilane	2943-75-1	<20%
Ethanol	64-17-5	<20%
n-Butyl acetate	123-86-4	<20%
iso-Propanol	67-63-0	<70%

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 eye or skin irritation.

Protection of first-aiders

First 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

Specific hazards:

Flammable liquid.

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.

Unsuitable extinguishing media

High volume water jet.

Specific hazards during fire fighting

Vapours may form explosive mixtures with air.

Exposure to flammable and combustion products may be a hazard to health.

Hazardous combustion products

Carbon oxides

Silicone oxides

Formaldehyde

Fluorinated oxides

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.

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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.

Local and total ventilation

Use with exhaust 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

The product is a flammable liquid. 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 away 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 more than 50% organic solvent which is classified as a flammable liquid. Product should be stored in accordance with AS 1940 Storage & Handling of Flammable & Combustible Liquids.

Precautions against fire and explosion

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 material as a whole by Safe Work Australian. However, ingredients used in this product have standard exposure limits according to NOHSC:

Ingredients	CAS number	Value (form of exposure)	Control parameters & permissible concentration
Ethanol	64-17-5	TWA	1,000 ppm 1,900 mg/m ³
n-Butyl acetate	123-86-4	TWA	150 ppm

			720 mg/m ³
iso-Propanol	67-63-0	TWA	400 ppm 983 mg/m ³

Biological limit values

There is no value allocated for this material as a whole according to the "National Model Regulations for the Control of Workplace Hazardous Substances (Safe Work Australia)".

Engineering measures

Flammable liquid. 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:	colourless to pale yellow liquid
Odour:	characteristic
Boiling point:	not determined
Vapour pressures (20 °C):	not determined
Density (20 °C):	approx. 0.809 g/ml
Flash point:	12 °C
Flammability limits (%):	not determined
Solubility in water:	insoluble
Autoignition point:	not determined
Vapour density (air=1):	not determined
pH:	n/a
Viscosity (20 °C):	n/a

10. Stability and reactivity

Reactivity and chemical stability

Not classified as a reactivity hazard. Material is stable under normal conditions.

Possible of hazardous reactions

Flammable liquid. 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 moisture, heat, flames and sparks.

Incompatible materials

Oxidizing agents and water.

Hazardous decomposition products

Contact with water or humid air: ethanol

Thermal decomposition product:

Carbon oxides
Silicone oxides
Formaldehyde
Fluorinated oxides

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11. Toxicological information

General information

To the best of our knowledge, the toxicity of this product as a whole has not been determined. Individual ingredients may have adverse health effects. However, 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: No information available. 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: No information available. Swallowing may 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. The part of hydrolysis product is ethanol which is readily biologically degradable. Other hydrolysis products such as silanol or siloxanol can form polysiloxane. Elimination 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 no other known harmful and ecological effects 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.

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14. Transportation information

General information

Product name:	PROTECTASEAL S
Proper shipping name:	Flammable liquid mixture N.O.S.
Manufacturer's code:	RPPSS
UN number:	1993
D.G. class:	3
Subsidiary risk:	Not allocated
Hazchem code:	3(Y)
Poisons schedule no:	5
Package group:	III

Road and rail transport

Classified as Dangerous Goods (flammable liquid) by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail"

Marine transport

Classified as Dangerous Goods (flammable liquid) by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

Air transport

Classified as Dangerous Goods (flammable liquid) 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:

EINECS - Europe
AICS - Australia

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 data sheet or from the manufacturer.

Further information

No information available

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