

MATERIAL SAFETY DATA SHEET (NOHSC: 2011)

SHOWER PLUG

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1. Identification of material and supplier

Product name	SHOWER PLUG
Product code	RPSP
Recommended use	Penetrating water repellent sealer for masonry.
Manufacturer's details	
Manufacturer:	CPC Concrete Protection Company
Address:	PO Box 3248, Nth.Turramurra 2074 Australia
Telephone:	61 2 94408800
Facsimile:	61 2 94408800
Website:	www.cpcproducts.com.au
E-mail:	info@cpcproducts.com.au
Emergency phone number:	61 2 94408800 (all hours)

2. Hazards identification

Classification

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

Not classified as Dangerous Goods by the criteria of the "Australian Code of the Transports of Dangerous Goods by Road & Rail".

Classified as a C1 (Combustible Liquid) for the purpose of storage and handling in accordance with the requirement of AS 1940. Refer to State Regulations for storage and transport requirements.

Label content

Pictograms



Hazard category

Xn	Harmful.
H227	Combustible liquid.
H315	Causes skin irritation.

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Risk phrases

R65

Harmful; May cause lung damage if swallowed.

Safety phrases

S36/37/39
S62

Wear suitable protective clothing, gloves and eye/face protections.
If swallowed, do not induce vomiting; Seek medical advice immediately.

Precautionary statements

Preventions:

P102: Keep out of reach of children.
P103: Read label before use.
P210: Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P261: Avoid breathing spray.
P264: Wash skin thoroughly after handling.
P271: Use only outdoors or in a well-ventilated area.
P280: Wear protective gloves/eye protection/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 reuse.

Storage:

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 (F, R11).

3. Composition and ingredients

Chemical nature: Alkyl alkoxy silane/siloxane in solvent.

Ingredients

Chemical name	CAS number	Proportion (% w/w)
Alkyl alkoxy silane/siloxane	n/a	<50%
Ethanol	64-17-5	<1%
Solvent naphtha (petroleum), medium aliphatic	64742-88-7	>50%

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.

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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

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:

Combustible 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 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.

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

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 C1 combustible 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 specific material by Safe Work Australian. However, ethanol may release from the hydrolysis of silane contained in this product. The standard exposure of ethanol 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/m ³	NIOSH REL
		TWA	1,000 ppm 1,900 mg/m ³	OSHA Z-1
		STEL	1,000 ppm	ACGIH

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:	colourless to pale yellow liquid
Odour:	alcoholic-like
pH value:	n/a
Melting point/range:	n/a (≤ 0 °C)
Initial boiling point/range:	>62 °C
Flash point:	>62 °C
Evaporation rate:	n/a
Flammability:	n/a
Upper explosion limit:	n/a
Lower explosion limit:	n/a
Relative density (20 °C):	c.a. 0.80 g/ml
Solubility in water:	insoluble
Auto-ignition point:	n/a
Decomposition temperature:	n/a
Viscosity (20 °C):	n/a
Total VOC (g/litre):	>640g/litre

10. Stability and reactivity

Reactivity and chemical stability

Not classified as a reactivity hazard. Stable under normal conditions.

Possible of hazardous reactions

Combustible 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: 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. 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 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:	SHOWER PLUG
Proper shipping name:	Combustible liquid N.O.S.
Manufacturer's code:	RPSP
UN number:	Not allocated
D.G. class:	Not allocated
Subsidiary risk:	Not allocated
Hazchem code:	Not allocated
Poisons schedule no:	5
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:

EINECS – Europe

ECI – Korea

ENCS – Japan

AICS – Australia

IECSC – China

DSI - Canada PICCS

Philippines TSCA

USA

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

Product may contain small amount of ethanol due to the hydrolysis of silane contained in this product. At elevated temperature or extreme conditions, the product may release more ethanol (CAS: 64-17-5) which is flammable (F, R11).

Further information and contact

For further information please contact CPC on: 61 2 94408800 (all hours).