

Rutec Pty Ltd

ABN 91 002 846 988

Material Safety Data Sheet

01/1/2019

PRODUCT NAME POTSIL

1 IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Supplier Name	Rutec Pty Ltd
Address	23 Hargrave St, Tamworth NSW 2340
Telephone	07 3385 6222
Fax	07 3385 6333
Emergency Contacts	0428 667 633 0418 667 633
Website	www.rutec.com
Poison Information Centre	13 11 26
Synonym(s)	Aqueous solution of potassium silicate
Use(s)	Fertilizer

2 HAZARDS IDENTIFICATION

Poisons
System Schedule (Aust) 5
Globally Harmonised

Hazardous according to the criteria of the Globally Harmonised System of Classification and Labelling of Chemicals (GHS)

Hazard Categories Skin Corrosion/Irritation - Category 2
Serious Eye Damage/Irritation - Category 2A



Signal Word	Warning
Hazard Statements	H315 Causes skin irritation. H319 Causes serious eye irritation.
Precautionary Statements	Prevention P264 Wash contacted areas thoroughly after handling. P280 Wear protective gloves/eye protection/face protection.
	Response P302 + P352 IF ON SKIN: Wash with plenty of soap and water. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P332 + P313 If skin irritation occurs: Get medical advice/attention. P337 + P313 If eye irritation persists: Get medical advice/attention.

	P362	Take off contaminated clothing and wash before reuse.
Disposal	P501	Dispose of contents/container in accordance with local / regional / national / international regulations.

National Transport Commission (Australia)
Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

Dangerous Goods Classification NOT Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

3 COMPOSITION / INFORMATION ON INGREDIENTS

	formula	Cas no.	Proportion
Potassium silicate	No data available	1312-76-1	30-60%
	No data available	7732-18-5	Balance %

4 FIRST AID MEASURES

Description of necessary measures according to routes of exposure

Swallowed	Rinse mouth. Drink 1 or 2 glasses of water. Never give anything by mouth to an unconscious person. Only induce vomiting at the instruction of medical personnel. Get medical attention if any discomfort continues.
Eye	Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyelids wide apart. Get medical attention if irritation persists after washing.
Skin	Immediately wash contaminated skin with plenty of water. Soaked clothing should be removed while under the safety shower and skin washed with running water for a minimum of 30 minutes. No attempt should be made to neutralize the alkali with acid solutions, as this could aggravate the burns. Get medical attention if health effects develop or persist.
Inhaled	Remove victim from exposure to fresh air. If not breathing, apply artificial respiration. If breathing is difficult, give oxygen. Seek medical attention.
Advice to Doctor	Treat symptomatically based on judgement of doctor and individual reactions of patient. Treat symptomatically as for strong alkalis.
Medical Conditions Aggravated by Exposure	Prolonged or repeated skin contact may cause dry skin. Deflating of the skin can result in irritation and dermatitis (inflammation of the skin).

1 FIRE FIGHTING MEASURES

General Measures	Clear fire area of all non-emergency personnel. Stay upwind. Keep out of low areas. Eliminate ignition sources. Move fire exposed containers from fire area if it can be done without risk.
Flammability Conditions	Aqueous solution, not flammable under normal conditions of use. Flammable hydrogen gas may be produced on prolonged contact with metals such as aluminium, tin, lead, and zinc.
Extinguishing Media	In case of fire, appropriate extinguishing media include dry chemical, water spray, regular foam and carbon dioxide.
Fire and Explosion Hazard	Non-combustible liquid. Aqueous solution, not flammable under normal conditions of use. Flammable hydrogen gas may be produced on prolonged contact with metals such as aluminium, tin, lead, and zinc. Flammable hydrogen gas may be produced on prolonged contact with metals such as aluminium, tin, lead, and zinc.
Hazardous Products of Combustion	
Special Fire Fighting Instructions	Clear fire area of all non-emergency personnel. Stay upwind. Keep out of low areas. Eliminate ignition sources. All combustion residues and contaminated water from fire-fighting should be disposed of according to regulations.
Personal Protective Equipment	Fire fighters should wear a positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots and gloves).
Flash Point	No Data Available
Lower Explosion Limit	No Data Available

Upper Explosion Limit	No Data Available
Auto Ignition Temperature	No Data Available
Hazchem Code	No Data Available

Personal Protective Equipment	Fire fighters should wear a positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots and gloves).
Flash Point	No Data Available
Lower Explosion Limit	No Data Available
Upper Explosion Limit	No Data Available
Auto Ignition Temperature	No Data Available
Hazchem Code	No Data Available

2 ACCIDENTAL RELEASE MEASURES

Spill Response	This product is moderately acidic. Wear protective gear as outlined in Section 8 while cleaning spillage. Confine spillage, do not let it run into drains. Neutralize with soda ash or lime. Soak up with inert material.
Waste Disposal	Comply with procedures laid down by local, state and federal governments.

3 HANDLING AND STORAGE

Handling	Do not mix this product with any other product except under specific advice from the manufacturer. Carefully read the product label before using. Always wash hands, eyes and exposed parts after handling this product. Do not eat, drink or smoke when handling this product.
Storage	Do not store in direct sunlight – containers are likely to become brittle. Do not store close to food or food cartons. Store in a cool, dry place. Do not store near strong oxidising substances, acids and alkalis. Keep out of reach of children and pets. Seek medical advice upon exposure.

4 EXPOSURE CONTROLS / PERSONAL PROTECTION

Ventilation	When pouring or spraying this product, avoid inhalation of mists and aerosols. Wear gloves and goggles when pouring this product. When exposure to spray mists containing this product can not be avoided, wear a good quality respirator suitable for this application.
PPE	When spraying this product, wear appropriate equipment protective for eyes, lungs and skin. Wash contaminated equipment including clothing before reuse.

5 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Viscous clear yellow liquid	Solubility in water	miscible
Odour	none	Specific gravity	1.37 approx
pH	8.20 approx	% volatiles	Not applicable
Vapour pressure	Not known	Flammability	not flammable
Vapour density	Not known	Flash Point	not applicable
Melting point	no data	Upper explosion limit	not applicable
Boiling point	unknown	Lower explosion limit	not applicable
Evaporation rate	no data	Autoignition temperature	not applicable
Bulk density	not applicable	Decomposition temperature	no data

6 STABILITY AND REACTIVITY

Reactivity	This product will react with a variety of alkalies and salts to form non-dangerous precipitates.
Decomposition Products	Various depending on heat and/or exposure to other mixtures.

7 TOXICOLOGICAL INFORMATION

Health Hazard Summary	This product is an irritant with moderate to high toxicity.
Eye	Irritant. Exposure may result in pain and redness.
Inhalation	Irritant. Exposure may result in nausea, headache, pain and gastrointestinal irritation.
Skin	Irritant. Prolonged and repeated contact may result in skin rash and dermatitis.
Ingestion	Moderate toxicity. Ingestion may result in nausea, vomiting, gastrointestinal irritation and diarrhoea.
Toxicity Data	No specific data.

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8 ECOLOGICAL INFORMATION

Environment

Do not let this product enter drains, water bodies and sewerage systems. This product may be toxic to aquatic life. Undergoes ionic dissociation. This product contains nitrogen and other nutrients and should be kept out of drains.

9 DISPOSAL CONSIDERATIONS

Waste Disposal

Reuse or recycle cleaned containers where possible.

Special precautions for landfill or incineration

Dispose of in accordance with relevant local legislation.

10 TRANSPORT INFORMATION

Shipping Name Non-dangerous goods

UN No. None allocated **Hazchem Code** None allocated **Packaging Group** None allocated

DG Class None allocated **Subsidiary Risk(s)** None allocated

11 REGULATORY INFORMATION

AICS All chemicals listed on the Australian Inventory of Chemical Substances (AICS).

12 OTHER INFORMATION

This Material Safety Data Sheet conforms with Safe Work Australia Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice February 2016

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