Hazardous Substance, NON-Dangerous Goods

1. MATERIAL AND SUPPLY COMPANY IDENTIFICATION

Product name: # Preschem Polesaver Rods & Bioguard

Recommended use: A wood preservative to protect timber structures from wood decay.

Supplier: Preschem Pty Ltd
ACN: 006 867 929
Street Address: 147-149 Herald Street
Cheltenham 3192
Australia
Telephone: 03 9532 0679
Facsimile: 03 9532 1041
Telephone (International): +613 9532 0679
Fax (International): +613 9532 1041

Emergency telephone number: **03 5974 2792 OR 0419 900 452**
International emergency number: **+613 5974 2792 OR +613 419 900 452**

2. HAZARDS IDENTIFICATION

This material is hazardous according to health criteria of Safe Work Australia.

Hazard Pictograms



Signal Word: Warning

Hazard Statement(s):

H302:	Harmful if swallowed.
H315:	Causes Skin Irritation.
H319:	Causes Serious Eye Irritation.
H361:	Suspected of damaging fertility or the unborn child.

Precautionary Statement(s)

P202:	Do not handle until all safety precautions have been read and understood.
P270:	Do not eat, drink or smoke when using this product.
P280:	Wear protective gloves/protective clothing.
P301/P310:	IF SWALLOWED: Immediately call a POISON CENTRE or doctor/physician.

Not classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by Road and Rail.

Poisons Schedule (Australia): S6

This material is a Scheduled Poison S6 and must be stored, maintained and used in accordance with the relevant regulations.

3. COMPOSITION INFORMATION

CHEMICAL ENTITY	CAS NO.	PROPORTION
Disodium octaborate tetrahydrate	12280-03-4	30-60%
Sodium fluoride	7681-49-4	10-30%
Non-hazardous ingredients	-	Balance
		100%

4. FIRST AID MEASURES

If poisoning occurs, contact a doctor or Poisons Information Centre (Phone Australia 131 126, New Zealand 0800 764 766).

Inhalation: Remove victim from exposure - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. Seek medical advice if effects persist.

Skin contact: If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. If swelling, redness, blistering or irritation occurs seek medical assistance.

Eye contact: If in eyes, hold eyelids apart and flush the eyes continuously with running water. Continue flushing until advised to stop by the Poisons Information Centre or a Doctor; or for at least 15 minutes and transport to Doctor or Hospital

Ingestion: Immediately rinse mouth with water. If swallowed, 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 immediate medical advice.

Notes to physician: Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Specific hazards: Non-combustible material.

Fire fighting further advice: On decomposing 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.

Hazchem Code: Not applicable.

Suitable extinguishing media: Not combustible, however, if material is involved in a fire use water fog (or if unavailable fine water spray), foam, dry agent (carbon dioxide, dry chemical powder).

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILLS
Wear protective equipment to prevent skin and eye contamination. Avoid inhalation of dust. Collect and recycle if possible, otherwise seal in properly labelled containers or drums for disposal.

LARGE SPILLS

Wear protective equipment to prevent skin and eye contamination and the inhalation of dust. Work up wind or increase ventilation. Sweep or vacuum up, but avoid generating dust. Collect and seal in properly labelled containers or drums for disposal. If contamination of sewers or waterways has occurred advise local emergency services.

Dangerous Goods – Initial Emergency Response Guide No: Not applicable.

7. HANDLING AND STORAGE

Handling: Avoid eye contact and repeated or prolonged skin contact.

Storage: Store in a cool, dry, well-ventilated place and out of direct sunlight. Store away from incompatible materials described in Section 10. Keep containers closed when not in use - check regularly for spills.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

National occupational exposure limits:
No value assigned for this specific material by the Hazardous Chemical Information System (HCIS).

However for:

	TWA		STEL		CARCINOGEN	NOTICES
	ppm	mg/m3	ppm	mg/m3	CATEGORY	
Fluorides (as F)	-	2.5	-	-	-	-
Borates (Dust not otherwise classified)	-	10.0	-	-	-	-

As published by the Hazardous Chemical Information System (HCIS).

TWA - The time-weighted average airborne concentration over an eight-hour working day, for a five-day working week over an entire working life.

STEL (Short Term Exposure Limit) - the average airborne concentration over a 15 minute period which should not be exceeded at any time during a normal eight-hour workday.

These Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept too as low a level as is workable. These exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

If the directions for use on the product label are followed, exposure of individuals using the product should not exceed the above standard. The standard was created for workers who are routinely, potentially exposed during product manufacture.

Biological Limit Values: As per the “National Model Regulations for the Control of Workplace Hazardous Substances (Safe Work Australia)” the ingredients in this material do not have a Biological Limit Allocated.

Engineering measures: Ensure ventilation is adequate to maintain air concentrations below Exposure Standards. Natural ventilation should be adequate under normal use conditions.

Personal protection equipment: PROTECTIVE CLOTHING, SAFETY SHOES, GLOVES.

Wear suitable protective clothing (eg overalls or similar) and impervious gloves. Available information suggests that gloves made from nitrile rubber should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make a final assessment. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

Under normal use, this product will not generate dust. But if the product is crushed for example, it could create dust. In that event wear a P2 rated dust mask (as per AS 1716) and use in well ventilated areas.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form / Colour / Odour: Preschem Polesaver Rods - White, solid chalk-like rods.
Preschem Bioguard – White solid discs preformed in a clear LD/degradable LD polyethylene sheet (diameter = 15mm, depth = 8mm)
Low odour, no odour threshold established

pH (10% solution):	**7.6**
Melting Point/Range (°C):	**Not Applicable**
Boiling Point/Range (°C):	**Not Applicable**
Flash Point (°C):	**Not Applicable**
Evaporation Rate:	**Not Applicable**
Flammability Limits (%):	**Not Applicable**
Vapour Pressure (20 °C):	**Not Applicable**
Relative Vapour Density (air=1):	**Not Applicable**
Specific Gravity (20 °C):	**1.30 - 1.45**
Solubility:	**~6.9% @ 20 ºC**
Partial coefficient: n-octanol/water:	**Not Available**
Autoignition Temperature (°C):	**Not Applicable**
Decomposition Temperature (°C):	**Not Available**
Viscosity (cP):	**Not Applicable**

(Typical values only - consult specification sheet)
N Av = Not available N App = Not applicable

10. STABILITY AND REACTIVITY

Chemical stability: This material is thermally stable when stored and used as directed.

Conditions to avoid: Contact with water will result in the product deteriorating.

Incompatible Materials: No information available.

Hazardous decomposition products: Oxides of carbon and nitrogen, smoke and other toxic fumes.

Hazardous reactions: Contact with acids will result in the evolution of toxic gases.

11. TOXICOLOGICAL INFORMATION

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:

Acute Effects

Inhalation: Not applicable when stored and handled as directed. The product is a solid rod or disc like pellet, however, if it has been crushed the resulting dust may be irritating to mucous membranes and respiratory tract.

Skin contact: Due to the products structure, short-term exposure is unlikely to cause irritation. Repeated or prolonged skin contact may lead to irritation.

Eye contact: Exposure to dust will cause eye irritation, however this is unlikely if the product is stored and handled as directed.

Ingestion: Harmful if swallowed. Swallowing can result in nausea, vomiting and irritation of the gastrointestinal tract. However, this product is *not* intended for ingestion.

Long Term Effects: No information available for product.

Acute toxicity / Chronic toxicity
No LD50 data available for the product. However, for the constituent (Accute inhalation toxicity study - OECD Guideline 403):
Fluoride
Oral LD50 (rat): 52 mg/kg
Boron
Oral LD50 (rat): 2,000 mg/kg

12. ECOLOGICAL INFORMATION

Avoid contaminating waterways.

Ecotoxicity: No information available.

Persistence and degradability: Biodegradation is not an applicable endpoint since the product is an inorganic substance.

Bioaccumulation potential: This product will undergo hydrolysis in water to form undissociated boric acid and dissociated Fluoride ions. Neither Boric Acid or Fluoride will biomagnify through the foodchain.

Mobility in soil: This product is soluble in water and is leachable through normal soil. adsorbtion to soils or sediments is insignificant.

13. DISPOSAL CONSIDERATIONS

Refer to State/Territory Land Waste Management Authority.

14. TRANSPORT INFORMATION

ROAD AND RAIL TRANSPORT
Not classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by Road and 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

Poisons Schedule (Aust): S6

All the constituents of this material are listed on the Australian Inventory of Chemical Substances (AICS).

16. OTHER INFORMATION

Literary reference

This Safety Data Sheet has been updated and prepared by Preschem Pty Ltd.

Reason(s) For Issue: Data revision

Supersedes version issued: May 19

This Safety Data Sheet is valid for 5 years from the date of issue and may be withdrawn and revised any time prior to that date. Please ensure that you are using the latest issue.

This Safety Data Sheet summarises at the date of issue our best knowledge of the health and safety hazard information of the product, and in particular how to safely handle and use the product in the workplace. Since Preschem Pty Ltd cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, review this Safety Data Sheet 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 company.

Our responsibility for product as sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available upon request.