

Safety Data Sheet

Section 1: IDENTIFICATION

POOL ALGAECIDE

Recommended Use: ALGAECIDE

Product Code: See Manufacturers Code

Company:	MICHALIS GROUP PTY LTD TRADING AS ALL-PRO CHEMICAL AND CLEANING SUPPLIES
Address:	3/7 AYRSHIRE CRESCENT, SANDGATE N.S.W 2304
Telephone Number:	(02) 4968 2000
Emergency Telephone Number:	Poisons Information Centre: Westmead NSW Australia 131126

Manufacturers Product Code:	POOLALGAECIDE	(1L)
	POOLALGAECIDE	(5L)
	POOLALGAECIDE	(25L)
	POOLALGAECIDE	(205L)

Section 2: HAZARDS

Classified as hazardous according to criteria of NOHSC.

R34:	Causes burns.
S36/37/39:	Wear suitable protective clothing, gloves and eye/face protection.
S45:	In case of accident or if you feel unwell, seek medical advice immediately (show the label wherever possible).
S61:	Avoid release to the environment.
S24/25:	When using, do not eat or drink. Avoid contact with skin and eyes.

Section 3: COMPOSITION INFORMATION

Ingredient	CAS No	Proportion
Ingredients deemed not to be hazardous	Not Applicable	To 100%
Benzalkonium chloride	68424-85-1	10-20%

Section 4: FIRST AID

If poisoning occurs, contact a Doctor or Poisons Information Centre.

Eye: If this product comes into contact with eyes, hold open and wash with running water for at least 15 minutes. Ensure irrigation under eyelids by occasionally lifting them. Do not try to remove contact lenses unless trained.

Skin: If this product comes into contact with skin, wash skin for at least 15 minutes with soap and water. Remove contaminated clothing and footwear. Ensure contaminated clothing is thoroughly washed before using again.

Inhalation: If mists, dusts or combustion products are inhaled, remove to fresh air. Lay victim down & keep warm and rested. If breathing is shallow, or has stopped, ensure clear airway and apply resuscitation or oxygen if available. Transport to hospital or doctor immediately.

Eye wash stations or baths and deluge showers should be available where product is being used.

Advice to doctor: Treat symptomatically. Note the nature of this product.

Section 5: FIREFIGHTING MEASURE

There is no explosion hazard from this material under normal circumstances.

Flashpoint: Does not burn.

Extinguishing Media: Use media suited to burning material.

Special Fire fighting procedures: As a minimum, wear overalls, goggles and gloves.

Unusual fire & Explosion hazards: Decomposition products are toxic and corrosive. There is little or no risk of an explosion from this product if involved in a fire.

Stability: Stable.

Polymerisation: Will not polymerise.

Decomposition Products: carbon dioxide, carbon monoxide and smoke (if combustion is incomplete), nitrogen oxides, water. Likely to decompose only after heating to dryness, followed by further strong heating.

Materials to avoid: No particular incompatibilities.

Section 6: ACCIDENTAL RELEASE MEASURES

Emergency Procedure	SAA/SNZ HB76: Dangerous Goods – Initial Emergency Response Guide- Not applicable.
Spills / Clean up	Slippery when spilled. Personal protective equipment should be worn when cleaning up spills. Restrict access to area until completion of cleanup. Stop leak if safe to do so. Contain spill with absorbent material, such as sand, vermiculite or other inert material. Prevent spill entering sewers or waterways. Collect and dispose of spilled material according to local regulations. Wash away remnants with copious amounts of cold water. Clean area by working from the periphery to the centre of spill or from the edge of the room to the centre.

Section 7: HANDLING AND STORAGE

Precautions for Safe Handling	Contact ALL-PRO sales representative for advice when using this product for any application other than that outlined on the label or technical bulletin. Any non-authorised use of this product may result in damage or personal injury. Store product in original container. Wash hands and face thoroughly after handling and before work breaks, eating, drinking, smoking and using toilet facilities.
Conditions for Safe Storage	No special storage and transport requirements. This material has no UN Classification. This material is classed as a S5 Poison. Observe appropriate state regulations for storage, transport and sale. Containers should be kept closed in order to minimise contamination. Keep from extreme heat and open flames, and make sure the material does not come into contact with products listed under “Materials to avoid” below.

Section 8: EXPOSURE CONTROL/ PERSONAL PROTECTION

Exposure Standards:

A time weighted average (TWA) concentration for an 8 hour day, and 5 day week has not been established by Worksafe Australia for any of the significant ingredients in this product. There is a blanket recommendation of 10mg/m³ for inspirable dusts or mists when limits have not otherwise been established. The nature of this product makes it unlikely that this level will be approached in normal use. See ingredients section on page 1 of this data sheet.

Engineering Controls:

In industrial situations, concentration values below the TWA value should be maintained. Values may be reduced by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods. If you believe air borne concentrations of mists, dusts or vapours are high, you are advised to modify the process or environment to reduce the problem.

Personal Protection:

The following instructions are meant for people coming into frequent and lengthy contact with this product. For occasional use, take precautions suitable for the conditions under which the product is being used.

Respiratory Protection: It is usually safe to not use respiratory protection. However, there may be circumstances where use of a mask or other device is preferred. Use judgement. For help in selecting suitable equipment consult AS/NZS 1715.

Protective Gloves: Rubber, PVC or other protective gloves should be used other than for brief use. Failure to use gloves may result in skin irritation and symptoms ranging from redness and itching to blisters and even burns. For help in selecting suitable gloves consult AS 2161.

Eye Protection: Goggles or full face shield should be used when using this product. Failure to do so may result in eye damage if an accident occurs. Consult AS 1336 and AS/NZS 1337 for information about eye protection.

Clothing: Clean overalls should be worn, preferably with an apron. Consult AS 2919 for advice on Industrial Clothing. All skin areas must be covered.

Safety Boots: Wearing safety boots is advisory. Consult AS/NZS 2210 for advice on Occupational Protective Footwear.

Flammability Limits: Does not burn.

Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point/Melting Point: APPROXIMATELY 100°C

Odour: BLAND

Ignition Temperature: NOT APPLICABLE

pH: 8.5-9.0

Freezing point: APPROXIMATELY 0°C

Vapour Density: NOT AVAILABLE

Specific Gravity: 1.0

Flashpoint (°C): NOT APPLICABLE

Vapour Pressure: (pascals pr mm of Hg at 25°C): NOT AVAILABLE

Appearance: CLEAR LIQUID

Upper and Lower Flammability limits (in air): NOT APPLICABLE

Solubility (g/l): NOT AVAILABLE
(DILUTABLE)

Section 10: STABILITY AND REACTIVITY

Chemical Stability	Stable under normal ambient storage conditions.
Conditions to avoid	Avoid high temperatures (store below 30°C). Protect against physical damage.
Incompatible materials	None known. Do not mix with other chemicals.
Hazardous decomposition products	None known.
Hazardous reactions	None known.

Section 11: TOXICOLOGICAL INFORMATION

Health Effects:

No specific data is available for the product for chronic exposure symptoms. The ingredients are not listed as carcinogenic in Worksafe's document "Exposure Standards for Atmospheric Contaminants in the Occupational Environment" (May 1995).

Acute Effects:

Swallowed:	Data suggests that the product should be considered to be harmful by ingestion.
Eye:	Data suggests that this product should be classified as irritating to the eyes. May cause problems including corneal damage or transient blindness if contact is not treated promptly.
Skin:	Data suggests that the product should be classified as irritating in contact with the skin. May cause symptoms ranging from itching to redness and blisters if not treated promptly.
Inhalation:	Data suggests that the product should be considered to be non irritating and non toxic by inhalation.

Primary route of exposure is inhalation and skin and eye contact.

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity	Not available.
Persistence and degradability	Not available.
Mobility	Not available.

Section 13: DISPOSAL CONSIDERATIONS

Disposable method	Refer to State/ Territory Land Waste Management Authority. Dispose of material through a licensed waste contractor. Rinse empty containers thoroughly before recycling or disposing to an authorised landfill.
Special precautions	Normally suitable for incineration by approved agent.

Section 14: TRANSPORT INFORMATION

UN Number:	Not applicable.
UN Proper Shipping Name:	Not applicable.
Class and subsidiary risk:	Not applicable
Packing Group:	Not applicable
Special Precautions for user:	Not applicable.
Hazchem code:	Not applicable.

Section 15: REGULATORY INFORMATION

Poisons Schedule (SUSDP): Schedule 5 – POISON.

All ingredients are listed in the Australia Inventory of Chemical Substances (AICS).

Section 16: OTHER INFORMATION

Prepared By: Ian Barkley
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Date of preparation: 1st July 2014

Legend to Abbreviations and Acronyms

AICS Australian Inventory of Chemical Substances

CAS Chemical Abstracts Service (Registry Number)

deg C ('C) degrees Celsius

G gram

g/l grams per litre

Ltr (L) Litre

m3 cubic metre

mg milligram

mg/m3 milligrams per cubic metre

Mm millimetre

NOHSC National Occupational Health and Safety Commission

SUSDP Standard for the Uniform Scheduling of Drugs and Poisons

TWA Time Weighted Average

UN United Nations (number)