

Revision Date 09-Mar-2020

Version 25

SECTION 1: IDENTIFICATION: PRODUCT IDENTIFIER AND CHEMICAL IDENTITY

Product identifier

Product Name Bioguard Algiguard

Product Code 20020079

Other means of identification

UN Number UN1903

Recommended use of the chemical and restrictions on use

Recommended Use Swimming pool algacide

Uses advised against No information available

Details of manufacturer or importer

Supplier

BIOLAB AUSTRALIA PTY LTD
1 Susan Street
Hindmarsh SA 5007
AUSTRALIA
PHONE: (AU) 1800 635 743

For further information, please contact

Contact Point Customer Service: 1800 635 743 (AU)

Emergency telephone number

Emergency telephone number In an Emergency: Dial 000 (AU)
For SPECIALIST advice in an EMERGENCY ONLY phone CHEMCALL - FREE CALL ALL HOURS: AU 1800 127 406

SECTION 2: HAZARD(S) IDENTIFICATION

Classified as a hazardous substance in accordance with the criteria of Safe Work Australia - Globally Harmonised System (GHS)

GHS Classification

Acute toxicity - Oral	Category 4
Skin corrosion/irritation	Category 1
Serious eye damage/eye irritation	Category 1

Label elements



Signal word

Warning

Hazard statements

H302 - Harmful if swallowed

H312 - Harmful in contact with skin
 H314 - Causes severe skin burns and eye damage
 H317 - May cause an allergic skin reaction
 H319 - Causes serious eye irritation
 H332 - Harmful if inhaled
 H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled
 H373 - May cause damage to organs through prolonged or repeated exposure if swallowed

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling
 Do not eat, drink or smoke when using this product
 Avoid breathing dust/fume/gas/mist/vapours/spray
 Use only outdoors or in a well-ventilated area
 Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements - Response

If swallowed, call a poisons information centre or doctor immediately
 IF ON SKIN: Wash with plenty of water and soap
 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
 Call a POISONS INFORMATION CENTRE or doctor if you feel unwell
 Rinse mouth
 If skin irritation occurs: Get medical advice/attention
 If eye irritation persists: Get medical advice/attention
 Take off all contaminated clothing and wash it before reuse
 "

Rinse mouth

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Other hazards

No information available

SECTION 3: COMPOSITION AND INFORMATION ON INGREDIENTS, IN ACCORDANCE WITH SCHEDULE 8

Substance

Chemical Name	CAS No	Weight-%
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	68424-85-1	30 - 60
ethanol (Denaturated)	64-17-5	<10

Non-hazardous ingredients

Proprietary

Balance

Section 4: FIRST AID MEASURES

Description of first aid measures**General advice**

If symptoms persist, call a doctor. Do not breathe dust/fume/gas/mist/vapours/spray. Do not get in eyes, on skin, or on clothing. Call a poison control centre or doctor for treatment advice.

Inhalation

Remove to fresh air. Call a doctor. If breathing is irregular or has stopped, administer artificial respiration. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation.

Skin contact

Consult a doctor if necessary. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty.

Eye contact	In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Continue rinsing eyes during transport to hospital. Remove contact lenses. Keep eye wide open while rinsing. If symptoms persist, call a doctor. Small amounts splashed into eyes can cause irreversible tissue damage and blindness. Protect unharmed eye. Keep eyes wide open while rinsing.
Ingestion	Rinse mouth. Drink plenty of water. If symptoms persist, call a doctor. Do NOT induce vomiting. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. Take victim immediately to hospital.
Self-protection of the first aider	Use personal protective equipment as required.
<u>Most important symptoms and effects, both acute and delayed</u>	
Symptoms	No information available.
<u>Indication of any immediate medical attention and special treatment needed</u>	
Note to doctors	Treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

Suitable Extinguishing Media

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media

No information available

Specific hazards arising from the chemical

Do not allow run-off from firefighting to enter drains or water courses Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations

Special protective actions for firefighters

Wear self-contained breathing apparatus and protective suit. Use personal protective equipment as required.

Hazchem code 2X.

Section 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions

Use personal protective equipment as required. Ensure adequate ventilation, especially in confined areas. Evacuate personnel to safe areas.

For emergency responders

Use personal protection recommended in Section 8.

Environmental precautions

Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system. See Section 12 for additional ecological information. If the product contaminates rivers and lakes or drains inform respective authorities.

Methods and material for containment and cleaning up

Methods for containment

Prevent further leakage or spillage if safe to do so.

Methods for cleaning up

Cover liquid spill with sand, earth or other non-combustible absorbent material. Cover powder spill with plastic sheet or tarp to minimise spreading. Pick up and transfer to properly labelled containers.

Precautions to prevent secondary hazards**Prevention of secondary hazards**

Clean contaminated objects and areas thoroughly observing environmental regulations.

Reference to other sections

No information available.

SECTION 7: HANDLING AND STORAGE, INCLUDING HOW THE CHEMICAL MAY BE SAFELY USED

Precautions for safe handling**Advice on safe handling**

Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Wash contaminated clothing before re-use. Do not breathe dust/fume/gas/mist/vapours/spray. Do not eat, drink or smoke when using this product. When using do not eat, drink or smoke. Dispose of rinse water in accordance with the local and national regulations.

General Hygiene Considerations

Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities**Storage Conditions**

Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Incompatible materials

Acids. Bases. Oxidising agent.

Other Information

No decomposition if stored and applied as directed.

SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

Control parameters**Exposure Limits**

Chemical Name	Australia
ethanol (Denaturated) 64-17-5	1000 ppm 1880 mg/m ³

Appropriate engineering controls**Engineering Controls**

Ensure adequate ventilation, especially in confined areas.

Individual protection measures, such as personal protective equipment**Eye/face protection**

Tight sealing safety goggles. Eye wash bottle with pure water. Wear face-shield and protective suit for abnormal processing problems.

Skin and body protection	Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact. polyvinyl alcohol or nitrite-butyl-rubber gloves. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.
Respiratory protection	In the case of vapour formation use a respirator with an approved filter.
Environmental exposure controls	Do not allow into any sewer, on the ground or into any body of water.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state	liquid	Odour	Almond-like
Appearance	viscous	Odour threshold	No information available
Colour	blue		
Property	Values	Remarks • Method	
pH	6.5 - 8.2		
Melting point / freezing point		No information available	
Boiling point/boiling range		No information available	
Flash point		Product not flammable, as aqueous solution.	
Evaporation rate		No information available	
Flammability (solid, gas)		No information available	
Flammability Limit in Air			
Upper flammability limit:			
Lower flammability limit:			
Vapour pressure		No information available	
Vapour density		No information available	
Specific Gravity		No information available	
Water solubility	completely miscible		
Solubility(ies)		No information available	
Partition coefficient		No information available	
Auto-ignition temperature		No information available	
Decomposition temperature		No information available	
Kinematic viscosity		No information available	
Dynamic viscosity			
Explosive properties	No information available		
Oxidising properties	No information available		
<u>Other Information</u>			
VOC Content (%)	No information available		
Density	0.92		
Bulk density	No information available		

Section 10: STABILITY AND REACTIVITY

Reactivity

No data available.

Chemical stability

Stable under normal conditions.

Explosion data

Sensitivity to Mechanical Impact	None.
Sensitivity to Static Discharge	None.

Possibility of Hazardous Reactions

Possibility of Hazardous Reactions

None under normal processing.

Conditions to avoid

Extremes of temperature and direct sunlight. Contamination.

Incompatible materials

Acids. Bases. Oxidising agent.

Hazardous Decomposition ProductsCarbon oxides. Nitrogen oxides (NO_x).**Section 11: TOXICOLOGICAL INFORMATION****Acute toxicity****Information on likely routes of exposure****Product Information**

Inhalation	May cause irritation of respiratory tract.
Eye contact	Causes burns. Corrosive to eyes.
Skin contact	Extremely corrosive and destructive to tissue.
Ingestion	Harmful if swallowed.

Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral)	1,036.00
ATEmix (inhalation-dust/mist)	1,247.00

0% of the mixture consists of ingredient(s) of unknown toxicity

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	= 426 mg/kg (Rat)	-	-
ethanol (Denaturated)	= 7060 mg/kg (Rat)	-	= 124.7 mg/L (Rat) 4 h

See section 16 for terms and abbreviations

Delayed and immediate effects as well as chronic effects from short and long-term exposure**Skin corrosion/irritation**

No information available.

Serious eye damage/eye irritation

No information available.

Sensitisation

No information available.

Germ cell mutagenicity

No information available.

Carcinogenicity

No information available.

Reproductive toxicity

No information available.

STOT - single exposure

No information available.

Chronic toxicity

No information available

Target Organ Effects

No information available

STOT - repeated exposure

May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard

No information available.

Section 12: ECOLOGICAL INFORMATION**Ecotoxicity**

40.513 % of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical Name	Algae/aquatic plants	Fish	Crustacea
ethanol (Denaturated)	-	13400 - 15100: 96 h <i>Pimephales promelas</i> mg/L LC50 flow-through 100: 96 h <i>Pimephales promelas</i> mg/L LC50 static 12.0 - 16.0: 96 h <i>Oncorhynchus mykiss</i> mL/L LC50 static	9268 - 14221: 48 h <i>Daphnia magna</i> mg/L LC50 10800: 24 h <i>Daphnia magna</i> mg/L EC50 2: 48 h <i>Daphnia magna</i> mg/L EC50 Static

Persistence and degradability

No information available.

Bioaccumulative potential

Bioconcentration factor (BCF): 79.

Mobility**Mobility in soil**

No information available.

Mobility

No information available.

Chemical Name	Partition coefficient
ethanol (Denaturated)	-0.32

Other adverse effects

Very toxic to aquatic organisms. Harmful to terrestrial vertebrates.

Section 13: DISPOSAL CONSIDERATIONS**Waste treatment methods****Waste from residues/unused products**

Disposal should be in accordance with applicable regional, national and local laws and regulations. Should not be released into the environment. Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

Do not re-use container. Dispose of in accordance with federal, state and local regulations.

Section 14: TRANSPORT INFORMATION

Note: Limited quantity (LQ) exception is possible

ADG

UN Number	UN1903
Proper shipping name	Disinfectant, Liquid, Corrosive, N.O.S. (Quaternary ammonium compounds)
Hazard Class	8
Packing Group	III
Description	UN1903 Disinfectant, liquid, corrosive, n.o.s. (Quaternary ammonium compounds), 8, III
Hazchem code	2X

IATA

UN/ID no	UN1903
Proper shipping name	Disinfectant, Liquid, Corrosive, N.O.S. (Quaternary ammonium compounds)
Hazard Class	8
Packing Group	III
Description	UN1903 Disinfectant, liquid, corrosive, n.o.s. (Quaternary ammonium compounds), 8, III

IMDG

UN/ID no	UN1903
Proper shipping name	Disinfectant, Liquid, Corrosive, N.O.S. (Quaternary ammonium compounds)
Hazard Class	8
Packing Group	III
EmS-No	F-A, S-B
Description	UN1903 Disinfectant, liquid, corrosive, n.o.s. (Quaternary ammonium compounds), 8, III
Marine pollutant	No

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

No information available

Section 15: REGULATORY INFORMATION

Regulatory information

National regulations

Australia

Classified as a hazardous substance in accordance with the criteria of Safe Work Australia - Globally Harmonised System (GHS)

See section 8 for national exposure control parameters

Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP)

Classified as a scheduled poison according to the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP)

Poison Schedule Number 6

International Inventories

TSCA	Complies
NZIoC	Complies
AICS	Complies

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

NZIoC - New Zealand Inventory of Chemicals
AICS - Australian Inventory of Chemical Substances

International Regulations

Ozone-depleting substances (ODS) Not applicable

Persistent Organic Pollutants Not applicable

Export Notification requirements Not applicable

SECTION 16: ANY OTHER RELEVANT INFORMATION

Revision Date 09-Mar-2020

Revision Note

The symbol (*) in the margin of this SDS indicates that this line has been revised.

Key or legend to abbreviations and acronyms used in the safety data sheet

Legend SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation
C	Carcinogen		

Disclaimer

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of Safety Data Sheet