

SECTION 1: IDENTIFICATION: PRODUCT IDENTIFIER AND CHEMICAL IDENTITY

Product identifier

Product Name ProGuard Dual Algaecide

Product Code 20023514

Other means of identification

UN Number 3265

Recommended use of the chemical and restrictions on use

Recommended Use Swimming pool algaecide

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 5 - (H303)
Skin corrosion/irritation	Category 1 - (H314)
Serious eye damage/eye irritation	Category 1 - (H318)
Acute aquatic toxicity	Not classified for acute
Chronic aquatic toxicity	Not classified chronic

Label elements



Signal word DANGER

Hazard statements

H303 - May be harmful if swallowed
 H314 - Causes severe skin burns and eye damage
 H410 - Very toxic to aquatic life with long lasting effects

Precautionary Statements - Prevention

Do not breathe dust/fume/gas/mist/vapours/spray
 Wash face, hands and any exposed skin thoroughly after handling
 Wear protective gloves/protective clothing/eye protection/face protection
 Avoid release to the environment

Precautionary Statements - Response

Immediately call a POISONS INFORMATION CENTRE or doctor
 Specific treatment (see .? on this label)
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
 Immediately call a POISONS INFORMATION CENTRE or doctor
 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
 Wash contaminated clothing before re-use
 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
 Immediately call a POISONS INFORMATION CENTRE or doctor
 IF SWALLOWED: Rinse mouth. DO NOT induce vomiting

Spill

Collect spillage

Precautionary Statements - Storage

Store locked up

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-%
Copper(II) sulfate, pentahydrate (1:1:5)	7758-99-8	10 - 30

Non-hazardous ingredients

Proprietary

Balance

Section 4: FIRST AID MEASURES

Description of first aid measures

Inhalation	Remove to fresh air. If symptoms persist, call a doctor.
Skin contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Call a doctor.
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required.
Ingestion	Clean mouth with water and drink afterwards plenty of water. Immediate medical attention is required.

Most important symptoms and effects, both acute and delayed

Symptoms No information available.

Indication of any immediate medical attention and special treatment needed

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. Water mist, dry powder, alcohol-resistant foam, CO₂, dry sand.

Unsuitable extinguishing media

No information available

Specific hazards arising from the chemical

Thermal decomposition can lead to release of irritating and toxic gases and vapours

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**

Ensure adequate ventilation, especially in confined areas.

For emergency responders

Use personal protection recommended in Section 8.

Environmental precautions

See Section 12 for additional ecological information.

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

Neutralize with chalk, alkali solution or ammonia. Wipe up with absorbent material (e.g. cloth, fleece). Take up mechanically, placing in appropriate containers for disposal.

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**

Ensure adequate ventilation, especially in confined areas.

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.

Incompatible materials

Strong acids. Strong bases. Strong oxidising agents.

SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION**Control parameters****Exposure Limits**

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Appropriate engineering controls**Engineering Controls**

Ensure adequate ventilation, especially in confined areas. Effective exhaust ventilation system. Eyewash stations.

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

Tight sealing safety goggles.

Hand Protection

polyvinyl alcohol or nitrile-butyl-rubber gloves. Before removing gloves clean them with soap and water. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

Skin and body protection

Wear protective gloves and protective clothing. Wear an impervious suit.

Environmental exposure controls

No information available.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES**Information on basic physical and chemical properties**

Physical state	liquid	Odour	No information available
Appearance	transparent	Odour threshold	No information available
Colour	Blue green		
Property	Values	Remarks • Method	
pH	2 - 3.2		
Melting point / freezing point			No information available
Boiling point/boiling range			No information available
Flash point			No information available
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

No information available

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

Other Information

VOC Content (%)

No information available

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**Incompatible materials**

Strong acids. Strong bases. Strong oxidising agents.

Hazardous Decomposition Products

None under normal use conditions.

Section 11: TOXICOLOGICAL INFORMATION**Acute toxicity****Information on likely routes of exposure****Product Information**

Product does not present an acute toxicity hazard based on known or supplied information.

Inhalation

May be harmful by inhalation.

Eye contact

Avoid contact with eyes. Corrosive to eyes.

Skin contact

Avoid contact with skin. Corrosive.

Ingestion May be 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) 2,127.00
ATEmix (dermal) 14,940.00

8.2% of the mixture consists of ingredient(s) of unknown toxicity

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Copper(II) sulfate, pentahydrate (1:1:5)	= 300 mg/kg (Rat) = 960 mg/kg (Rat)	> 2 g/kg (Rat) > 8 g/kg (Rabbit)	-

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

May cause adverse liver effects

Target Organ Effects

Eyes kidney liver Respiratory system Skin

STOT - repeated exposure

No information available.

Aspiration hazard

No information available.

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity

26.86 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Copper(II) sulfate, pentahydrate (1:1:5)	-	0.1478 - 0.165: 96 h <i>Oncorhynchus mykiss</i> mg/L LC50 flow-through 0.66 - 1.15: 96 h <i>Lepomis macrochirus</i> mg/L LC50 semi-static 0.09 - 0.19: 96 h <i>Oncorhynchus mykiss</i> mg/L LC50 static 0.96 - 1.8:	0.147 - 0.227: 48 h <i>Daphnia magna</i> mg/L EC50 Static

		96 h <i>Lepomis macrochirus</i> mg/L LC50 static 0.6752: 96 h <i>Pimephales promelas</i> mg/L LC50 static	
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Persistence and degradability

No information available.

Bioaccumulative potential

No information available.

Mobility**Mobility in soil**

No information available.

Mobility

No information available.

Other adverse effects

No information available.

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.

Contaminated packaging

Do not re-use container. Disposal should be in accordance with applicable regional, national and local laws and regulations.

Section 14: TRANSPORT INFORMATION

Note: Limited quantity (LQ) exception is possible**ADG**

UN Number	3265
Proper shipping name	Corrosive liquid, acidic, organic, n.o.s. (contains Copper Sulphate Pentahydrate)
Hazard Class	Class 8
Packing Group	III
Description	UN3265, CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S (contains COPPER SULPHATE PENTAHYDRATE), 8, III

IATA

UN/ID no	3265
Proper shipping name	Corrosive liquid, acidic, organic, n.o.s. (contains Copper Sulphate Pentahydrate)
Hazard Class	8
Packing Group	III
Description	UN3265, CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S (contains COPPER SULPHATE PENTAHYDRATE), 8, III

IMDG

Proper shipping name	Corrosive liquid, acidic, organic, n.o.s. (contains Copper Sulphate Pentahydrate)
Hazard Class	8
Packing Group	III
EmS-No	F-A, S-B
Description	UN3265, CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S (contains COPPER SULPHATE PENTAHYDRATE), 8, III

Marine pollutant Yes

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 5

International Inventories

TSCA	Does not comply
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 27-Jul-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