

Revision Date 01-Sep-2020

Version 1

SECTION 1: IDENTIFICATION: PRODUCT IDENTIFIER AND CHEMICAL IDENTITY

Product identifier

Product Name ProGuard Bromine Tablets

Product Code 20023526

Other means of identification

UN Number UN3085

Recommended use of the chemical and restrictions on use

Recommended Use Swimming pool chemical

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

Oxidising solids	Category 3
Acute toxicity - Oral	Category 4
Acute toxicity - Dermal	Category 5
Skin corrosion/irritation	Category 1
Serious eye damage/eye irritation	Category 1

Label elements



Signal word

DANGER

Hazard statements

H272 - May intensify fire; oxidiser
 H302 - Harmful if swallowed
 H314 - Causes severe skin burns and eye damage
 H318 - Causes serious eye damage
 H401 - Toxic to aquatic life

Precautionary Statements - Prevention

Take any precaution to avoid mixing with combustibles
 Keep away from heat/sparks/open flames/hot surfaces. - No smoking
 Wear protective gloves/protective clothing/eye protection/face protection
 Avoid breathing (dust, vapour, mist, gas)
 Avoid release to the environment
 Keep out of reach of children

Precautionary Statements - Response

IF exposed or if you feel unwell: Call a POISONS INFORMATION CENTRE or doctor
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
 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
 Wash contaminated clothing before re-use
 IF SWALLOWED: Rinse mouth. DO NOT induce vomiting

Fire

In case of fire: Evacuate area
 Fight fire with normal precautions from a reasonable distance
 High volume water jet

Precautionary Statements - Storage

Store in a well-ventilated place
 Keep out of reach of children
 Store locked up
 Keep cool. Protect from sunlight

Precautionary Statements - Disposal

Dispose of contents/containers in accordance with local regulations

Other hazards

May be harmful in contact with skin
 No information available

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

Substance

Chemical Name	CAS No	Weight-%
1-bromo-3-chloro-5,5-dimethylhydantoin	16079-88-2	>90

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.

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.
Eye contact	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a doctor.
Ingestion	Rinse mouth. Drink plenty of water. If symptoms persist, call a doctor. Do NOT induce vomiting.
Self-protection of the first aider	Use personal protective equipment as 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**

Flood fire area with water from a distance. Foam.

Unsuitable extinguishing media

Do not use dry chemicals, carbon dioxide, or halogenated extinguishing agents ABC-powder

Specific hazards arising from the chemical

During heating or in case of fire poisonous gases are produced. Hydrogen bromide. Hydrogen chloride. Nitrogen oxides (NOx). Carbon monoxide.

Special protective actions for firefighters

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

Hazchem code 1W.

Section 6: ACCIDENTAL RELEASE MEASURES**Personal precautions, protective equipment and emergency procedures****Personal precautions**

Avoid creating dust. Ensure adequate ventilation, especially in confined areas. Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Keep people away from and upwind of spill/leak.

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.

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.

General Hygiene Considerations

Handle in accordance with good industrial hygiene and safety practice.

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

Keep out of the reach of children. Keep container tightly closed in a dry and well-ventilated place.

Incompatible materials

Reducing agents. Heavy metals. Acids. Alkali.

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.

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

Tight sealing safety goggles.

Hand Protection

Gloves made of plastic or rubber.

Skin and body protection

Suitable protective clothing.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

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	Solid	Odour	faint halogen
Appearance	tablet	Odour threshold	No information available
Colour	white to off white		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	3.5 - 4.5	
Melting point / freezing point	152-163 °C	Decomposes on heating
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	1.8 -2.0	
Water solubility	1.5 g/L	
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
Density	0.87 - 0.92 g/cm ³
Bulk density	No information available

Section 10: STABILITY AND REACTIVITY

Reactivity

May produce chlorine in the presence of strong oxidizers or pool treatment chemicals. Do not allow contact with combustible material such as paper, fabric, saw dust and kerosene.

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

Heat, flames and sparks. Protect from moisture. Extremes of temperature and direct sunlight. Avoid contact with combustible

material. Direct sunlight. Heat.

Incompatible materials

Reducing agents. Heavy metals. Acids. Alkali.

Hazardous Decomposition Products

Nitrogen oxides (NOx). Hydrogen chloride. Chlorine. Hydrogen bromide. Bromine gas.

Section 11: TOXICOLOGICAL INFORMATION

Acute toxicity

Information on likely routes of exposure

Product Information

Inhalation	Irritating to respiratory system.
Eye contact	Risk of serious damage to eyes.
Skin contact	Irritating to skin. Contact with moist skin may cause skin burns. Causes burns.
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 (dermal)	2,002.00
100 % of the mixture consists of ingredient(s) of unknown acute oral toxicity	
0 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity	
100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)	
100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapour)	
100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)	

100% of the mixture consists of ingredient(s) of unknown toxicity

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
1-bromo-3-chloro-5,5-dimethylhydantoin	= 1390 mg/kg (Rat)	> 2 g/kg (Rabbit) > 2000 mg/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.

STOT - repeated exposure

No information available.

Aspiration hazard

No information available.

Section 12: ECOLOGICAL INFORMATION**Ecotoxicity**

100 % of the mixture consists of components(s) of unknown hazards to the aquatic environment

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. Dispose of in accordance with federal, state and local regulations.

Section 14: TRANSPORT INFORMATION**Note:**

Limited quantity (LQ) exception is possible

ADG

UN Number	UN3085
Proper shipping name	Oxidizing solid, corrosive, n.o.s. (Bromochloro-5,5-dimethylimidazolidine-2,4-dione)
Hazard Class	5.1
Subsidiary hazard class	8
Packing Group	III
Description	UN3085 Oxidizing solid, corrosive, n.o.s. (Bromochloro-5,5-dimethylimidazolidine-2,4-dione), 5.1 (8), III

Hazchem code	1W
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IATA

UN/ID no	UN3085
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Proper shipping name	Oxidizing solid, corrosive, n.o.s. (Bromochloro-5,5-dimethylimidazolidine-2,4-dione)
Hazard Class	5.1
Subsidiary hazard class	8
Packing Group	III
Description	UN3085 Oxidizing solid, corrosive, n.o.s. (Bromochloro-5,5-dimethylimidazolidine-2,4-dione), 5.1 (8), III

IMDG

UN/ID no	UN3085
Proper shipping name	Oxidizing solid, corrosive, n.o.s. (Bromochloro-5,5-dimethylimidazolidine-2,4-dione)
Hazard Class	5.1
Subsidiary hazard class	8
Packing Group	III
EmS-No	F-A, S-Q
Description	UN3085 Oxidizing solid, corrosive, n.o.s. (Bromochloro-5,5-dimethylimidazolidine-2,4-dione), 5.1 (8), III

Marine pollutant This material meets the definition of a marine pollutant

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	Does not comply
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 01-Sep-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