

Revision Date 29-Oct-2024

Version 4

Section 1: Identification

Product identifier

Product Name ProGuard Bromine Tablets
Product Code 20023526

Other means of identification

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: 0 800 441 662 (NZ)
Customer Service: 1800 635 743 (AU)

E-mail address BiolabAU@biolabinc.com

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 Harmonized System (GHS)

GHS Classification

Oxidising solids	Category 2
Acute toxicity - Oral	Category 4
Skin corrosion/irritation	Category 1 Sub-category B
Acute aquatic toxicity	Category 1

Label elements



Signal word
DANGER

Hazard statements

May intensify fire; oxidiser
Harmful if swallowed
Causes severe skin burns and eye damage
Very toxic to aquatic life with long lasting effects

Precautionary Statements - Prevention

Wear protective gloves/eye protection/face protection
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
Take any precaution to avoid mixing with combustibles
Keep/Store away from clothing/combustible materials
Wash hands thoroughly after handling
Wear protective gloves/clothing and eye/face protection
Avoid release to the environment
Read carefully and follow all instructions
Keep out of reach of children
Do not eat, drink or smoke when using this product

Precautionary Statements - Response

IF exposed or if you feel unwell: Call a POISONS INFORMATION CENTRE or doctor
IF IN EYES: Immediately rinse 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
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
IF SWALLOWED: Rinse mouth. DO NOT induce vomiting
IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
In case of fire: Evacuate area
Fight fire with normal precautions from a reasonable distance
High volume water jet
Collect spillage

Precautionary Statements - Storage

Store in a well-ventilated place
Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Other hazards which do not result in classification

May be harmful in contact with skin.

Section 3: Composition and information on ingredients

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

Section 4: First aid measures

Description of first aid measures

Inhalation

Remove to fresh air.

Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a doctor.
Skin contact	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediate medical attention is required.
Ingestion	Rinse mouth.

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

Large Fire CAUTION: Use of water spray when fighting fire may be inefficient.

Unsuitable extinguishing media Do not scatter spilled material with high pressure water streams.

Specific hazards arising from the chemical

Specific hazards arising from the chemical No information available.

Special protective actions for firefighters

Special protective equipment and precautions for fire-fighters Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

Hazchem code 1W

Section 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation.

For emergency responders Use personal protection recommended in Section 8.

Environmental precautions

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 Avoid breathing dust or spray mist. Soak up with inert absorbent material. Use clean non-sparking tools to collect absorbed material.

Precautions to prevent secondary hazards

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

Section 7: Handling and storage**Precautions for safe handling**

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place.

Incompatible materials Organic material. Reducing agent. Heavy metals. Iron and 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.

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

Appropriate engineering controls

Engineering controls Showers
Eyewash stations
Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection No special protective equipment required.

Skin and body protection No special protective equipment required.

Respiratory protection No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

Environmental exposure controls No information available.

Thermal hazards No information available.

Section 9: Physical and chemical properties**Information on basic physical and chemical properties**

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

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	3.5	
Melting point / freezing point	152-163 °C	Decomposes on heating
Boiling point/boiling range	No data available	None known
Flash point	No data available	None known
Evaporation rate	No data available	None known
Flammability (solid, gas)	No data available	None known
Flammability Limit in Air		None known
Upper flammability limit:	No data available	
Lower flammability limit:	No data available	
Vapour pressure	No data available	None known
Vapour density	No data available	None known
Relative density	1.8 -2.0	
Water solubility	No data available 1.5 g/L	
Solubility(ies)	No data available	None known
Partition coefficient	No data available	None known
Auto-ignition temperature	No data available	None known
Decomposition temperature	No information available	None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	No data available	None known
Explosive properties	No information available	
Oxidising properties	No information available	

Other information

Softening point	Not available
Molecular weight	No data available
VOC content	No information available
Density	0.87 - 0.92 g/cm ³
Bulk density	No data available
Particle characteristics	No information available

Section 10: Stability and reactivityReactivity

Reactivity No information available.

Chemical stability

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

Conditions to avoid None known based on information supplied.

Incompatible materials

Incompatible materials Organic material. Reducing agent. Heavy metals. Iron and heavy metals. Acids. Alkali.

Hazardous decomposition products

Hazardous Decomposition Products Nitrogen oxides (NO_x). 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.

Symptoms No information available.

Numerical measures of toxicity - Product Information

No information available

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

ATEmix (dermal) 2,002.00 mg/kg

- 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)

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
1-bromo-3-chloro-5,5-dimethylhydantoin	= 1390 mg/kg (Rat)	> 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.
Respiratory or skin 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

Aquatic ecotoxicity The environmental impact of this product has not been fully investigated.

Unknown aquatic toxicity 100 % of the mixture consists of component(s) of unknown hazards to the aquatic environment.

Terrestrial ecotoxicity There is no data for this product.

Persistence and degradability

Persistence and degradability No information available.

Bioaccumulative potential

Bioaccumulation There is no data for this product.

Mobility

Mobility No information available.

Other adverse effects

Other adverse effects No information available.

Section 13: Disposal considerations

Waste treatment methods

Waste from residues/unused products Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging Do not re-use empty containers.

See section 8 for more information

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)
Transport hazard class(es)	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
IATA	
UN number or ID number	UN3085
Proper shipping name	Oxidizing solid, corrosive, n.o.s. (Bromochloro-5,5-dimethylimidazolidine-2,4-dione)
Transport hazard class(es)	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 number or ID number	UN3085
Proper shipping name	Oxidizing solid, corrosive, n.o.s. (Bromochloro-5,5-dimethylimidazolidine-2,4-dione)
Transport hazard class(es)	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

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 Harmonized 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)

Australian Industrial Chemicals Introduction Scheme (AICIS)

Contact supplier for inventory compliance status

Chemical name	Australian Industrial Chemicals Introduction Scheme (AICIS)	Additional information
1-bromo-3-chloro-5,5-dimethylhydantoin - 16079-88-2	Present	-

Illicit Drug Precursors/Reagents

This product does not contain any substance(s) on the Illicit Drug Precursors/Reagents list.

International Inventories

AICS Complies.

NZIoC	Contact supplier for inventory compliance status.
TSCA	Contact supplier for inventory compliance status.
DSL/NDSL	Contact supplier for inventory compliance status.
EINECS/ELINCS	Contact supplier for inventory compliance status.
ENCS	Contact supplier for inventory compliance status.
IECSC	Contact supplier for inventory compliance status.
KECL	Contact supplier for inventory compliance status.
PICCS	Complies.

Legend:**AICS** - Australian Inventory of Chemical Substances**NZIoC** - New Zealand Inventory of Chemicals**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances**ENCS** - Japan Existing and New Chemical Substances**IECSC** - China Inventory of Existing Chemical Substances**KECL** - Korean Existing and Evaluated Chemical Substances**PICCS** - Philippines Inventory of Chemicals and Chemical Substances**International Regulations****The Montreal Protocol on Substances that Deplete the Ozone Layer** Not applicable**The Stockholm Convention on Persistent Organic Pollutants** Not applicable**The Rotterdam Convention** Not applicable**Section 16: Other information****Revision Date** 29-Oct-2024**Revision Note**

***Indicates updated data since last publication.

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		

Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)

U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA)

Environmental Protection Agency

Acute Exposure Guideline Level(s) (AEGl(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

National Institute of Technology and Evaluation (NITE)

Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

Australian Industrial Chemicals Introduction Scheme (AICIS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine's PubMed database (NLM PUBMED)

U.S. National Toxicology Program (NTP)
New Zealand's Chemical Classification and Information Database (CCID)
Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications
Organisation for Economic Co-operation and Development High Production Volume Chemicals Program
Organisation for Economic Co-operation and Development Screening Information Data Set
World Health Organization

Disclaimer

The information provided in this 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

Australia**Australia SDS version information - UGHS**

UL release:
GHS Revision 7
2022 Q1

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