

SECTION 1: IDENTIFICATION: PRODUCT IDENTIFIER AND CHEMICAL IDENTITY

Product identifier

Product Name BioGuard Spa Armour

Product Code 20021805

Other means of identification

UN Number 3077

Recommended use of the chemical and restrictions on use

Recommended Use Swimming pool chemical

Uses advised against Do not mix with other chemicals

Details of manufacturer or importer

Supplier

BIOLAB AUSTRALIA PTY LTD
86 King William Road
Goodwood, SA 5034, Australia
Telephone: +61 (8) 8274 6800 Fax: +61 (8) 8271 0612

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 - (H302)
Serious eye damage/eye irritation	Category 2 - (H319)
Specific target organ toxicity (single exposure)	Category 3 - (H335)

Label elements



Signal word Warning

Hazard statements

H302 - Harmful if swallowed
H319 - Causes serious eye irritation

H335 - May cause respiratory irritation

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Wear protective gloves/protective clothing/eye protection/face protection

Avoid breathing dust/fume/gas/mist/vapours/spray

Use only outdoors or in a well-ventilated area

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

If eye irritation persists: Get medical advice/attention

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Call a POISON CENTRE or doctor/physician if you feel unwell

IF SWALLOWED: Call a POISON CENTRE or doctor/physician if you feel unwell

Rinse mouth

Precautionary Statements - Storage

Store in a well-ventilated place. Keep container tightly closed

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-%
Sodium dichloro-s-triazinetrione dihydrate	51580-86-0	>60
sodium bromide	7647-15-6	10-30

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 stopped, administer artificial respiration. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Artificial respiration and/or oxygen may be necessary. Immediate medical attention is not required. Move to fresh air in case of accidental inhalation of vapours. If symptoms persist, call a doctor.

Skin contact

Consult a doctor if necessary. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing before re-use. Wash off immediately with plenty of water. If skin irritation persists, call a doctor. Immediate medical attention is not required.

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. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Call a doctor.

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

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Flood fire area with water from a distance.

Unsuitable extinguishing media

Risk of violent reaction. ABC-powder Dry chemical

Specific hazards arising from the chemical

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

Special protective actions for fire-fighters

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

Hazchem code 2Z.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions

Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Avoid contact with skin, eyes or clothing.

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. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

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

Do not add water to spilled material. Pick up and transfer to properly labelled containers. Cover liquid spill with sand, earth or other non-combustible absorbent material. Cover powder spill with plastic sheet or tarp to minimise spreading. Soak up with inert absorbent material. Dam up. Do not close containers containing wet or damp material. They should be left open to disperse any hazardous gases that may form. Do not transport wet or damp material. Contact supplier in Section 1 for instructions, especially for damp or contaminated material.

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**

Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. 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. Use with local exhaust ventilation.

General Hygiene Considerations

When using do not eat, drink or smoke. Wash contaminated clothing before re-use. Regular cleaning of equipment, work area and clothing is recommended.

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. Keep containers tightly closed in a cool, well-ventilated place. Keep in properly labelled containers.

Incompatible materials

Oxidising agent. Alkali. Ammonia. Urea. Nitrogen containing compounds. Calcium hypochlorite. Do not mix with other swimming pool/spa chemicals in their concentrated forms. Floor sweeping compounds. Inorganic reducing compounds. Do not mix with other chemicals. Avoid contact with water on concentrated material in the container.

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. Wear personal protective equipment.

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

Tight sealing safety goggles. Face protection shield.

Hand Protection

Wear protective gloves. Rubber gloves.

Skin and body protection

Suitable protective clothing. Apron. Gloves made of plastic or rubber. Wash contaminated clothing before re-use.

Environmental exposure controls Do not allow into any sewer, on the ground or into any body of water. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state	Solid	Odour	faint halogen
Appearance	granules	Odour threshold	No information available
Colour	white		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	4.5	Saturated aqueous solution
Melting point/freezing point	240 °C	Decomposes
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:	No information available	
Lower flammability limit:	No information available	
Vapour pressure		No information available
Vapour density		No information available
Specific Gravity		No information available
Water solubility	250 g/L	No information available
Solubility(ies)		No information available
Partition coefficient		No information available
Autoignition 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	0.90 - 0.93 g/cm ³
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

Protect from moisture. Contamination. Poor ventilation. High temperatures.

Incompatible materials

Oxidising agent. Alkali. Ammonia. Urea. Nitrogen containing compounds. Calcium hypochlorite. Do not mix with other swimming pool/spa chemicals in their concentrated forms. Floor sweeping compounds. Inorganic reducing compounds. Do not mix with other chemicals. Avoid contact with water on concentrated material in the container.

Hazardous Decomposition Products

Halogen containing gases. Carbon oxides.

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 cause irritation of respiratory tract.
Eye contact	Causes serious eye irritation.
Skin contact	May be harmful in contact with skin.
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)	573.00
ATEmix (dermal)	13,347.00

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

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
sodium bromide	= 3400 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.

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

Avoid repeated exposure

STOT - repeated exposure

No information available.

Aspiration hazard

No information available.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

0 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

Chemical Name	Algae/aquatic plants	Fish	Crustacea
sodium bromide	5800 - 24000: 96 h <i>Scenedesmus pannonicus</i> mg/L EC50	24000 - 96000: 96 h <i>Oryzias latipes</i> mg/L LC50 flow-through 24000: 96 h <i>Oryzias latipes</i> mg/L LC50 semi-static 16000 - 24000: 96 h <i>Poecilia reticulata</i> mg/L LC50 flow-through 16000: 96 h <i>Poecilia reticulata</i> mg/L LC50 semi-static 15614 - 17428: 96 h <i>Pimephales promelas</i> mg/L LC50 static 1000: 96 h <i>Lepomis macrochirus</i> mg/L LC50 static 0.054 - 0.081: 96 h <i>Oncorhynchus mykiss</i> mg/L LC50 flow-through 1000: 96 h <i>Oncorhynchus mykiss</i> mg/L LC50 static	5800 - 48000: 48 h <i>Daphnia magna</i> mg/L EC50 5700 - 10800: 48 h <i>Daphnia magna</i> mg/L EC50 Static

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.

Endocrine Disruptor Information .

Chemical Name	EU - Endocrine Disruptors Candidate List	EU - Endocrine Disruptors - Evaluated Substances	Endocrine disrupting potential
Sodium dichloro-s-triazinetrione dihydrate	Group III Chemical	-	-

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. The product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches with chemical or used container. Contact with incompatible materials could cause a reaction or fire.

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: Product classified as UN 3077 or UN 3082 that are shipped in containers not exceeding 5 kg or 5 L may ship as Not Subject to the provisions of the IMDG Code and Not Restricted under IATA. Refer to IMDG Ch 2.10 and IATA SP-197. Limited quantity (LQ) exception is possible

ADG
UN Number Not regulated
3077

IATA
UN/ID no 3077
Proper shipping name Environmentally Hazardous Substance, Solid, n.o.s., (Sodium Dichloro-s-triazinetrione)
Hazard Class 9
Packing Group III
Description UN3077 Environmentally hazardous substances, solid, n.o.s. (Sodium dichloro-s-triazinetrione), 9, III

IMDG
UN/ID no 3077
Proper shipping name Environmentally Hazardous Substance, Solid, n.o.s., (Sodium Dichloro-s-triazinetrione)
Hazard Class 9
Packing Group III
EmS-No F-A, S-F
Description UN3077 Environmentally hazardous substances, solid, n.o.s. (Sodium dichloro-s-triazinetrione), 9, III

Marine pollutant This material meets the definition of a marine pollutant

Transport in bulk according to Annex II of MARPOL 73/78 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 14-Jun-2016

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