Bioldb A KIK Custom Products Company

SAFETY DATA SHEET

Revision Date 23-Aug-2022 Version 16

Section 1: Identification

Product identifier

Product Name Armour

Product Code A-0924

Other means of identification

Pure substance/mixture Mixture

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 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

Acute toxicity - Oral	Category 4
Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Serious eye damage/eye irritation	Category 2
Specific target organ toxicity (single exposure)	Category 3

Label elements



Signal word DANGER

Hazard statements

Harmful if swallowed Causes serious eye irritation May cause respiratory irritation May be harmful if inhaled Contact with acids liberates toxic gas

Precautionary Statements - Prevention

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

Wear eye/face protection

Precautionary Statements - Response

Specific treatment is urgent (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 If eye irritation persists: Get medical advice/attention

IF INHALED: Remove person to fresh air and keep comfortable for breathing

Immediately call a doctor Call a doctor if you feel unwell

IF SWALLOWED: Call a POISONS CENTRE or doctor 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 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-%
Sodium Dichloro-S-Triazinetrione	2893-78-9	>60
Non-hazardous ingredients	Proprietary	Balance

Section 4: First aid measures

Description of first aid measures

General advice Show this safety data sheet to the doctor in attendance. Immediate medical attention is

required.

Inhalation If breathing has stopped, give artificial respiration. Get medical attention immediately.

Remove to fresh air. Do not breathe dust. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If breathing is

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difficult, (trained personnel should) give oxygen. IF exposed or concerned: Get medical

advice/attention.

Eve contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

> Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. Get medical attention if irritation develops and

persists.

Skin contact Wash skin with soap and water.

Ingestion Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious

person. Call a doctor or poisons information centre immediately.

Ensure that medical personnel are aware of the material(s) involved, take precautions to Self-protection of the first aider

protect themselves and prevent spread of contamination. Do not breathe dust. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Use personal protective equipment as required. See section 8 for more

information. Avoid contact with skin, eyes or clothing.

Most important symptoms and effects, both acute and delayed

Symptoms Coughing and/or wheezing. Difficulty in breathing. May cause redness and tearing of the

eyes. Burning sensation.

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.

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

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

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.

Section 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. Avoid generation of Personal precautions

dust. Do not breathe dust. Use personal protective equipment as required. Evacuate

personnel to safe areas. Keep people away from and upwind of spill/leak.

Other information Refer to protective measures listed in Sections 7 and 8.

Use personal protection recommended in Section 8. For emergency responders

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Environmental precautions

Prevent further leakage or spillage if safe to do so. Should not be released into the **Environmental precautions**

environment. Do not allow to enter into soil/subsoil. 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.

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

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

skin, eyes or clothing. In case of insufficient ventilation, wear suitable respiratory equipment. Handle product only in closed system or provide appropriate exhaust ventilation. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before

re-use. Avoid breathing vapours or mists.

Avoid contact with skin, eyes or clothing. Do not breathe dust. Wear suitable gloves and **General hygiene considerations**

> eye/face protection. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before re-use. Contaminated work clothing must not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product.

Conditions for safe storage, including any incompatibilities

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

of children. Store locked up.

Incompatible materials None known based on information supplied.

Section 8: Exposure controls and personal protection

Control parameters

This product, as supplied, does not contain any hazardous materials with occupational **Exposure Limits**

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

Showers **Engineering controls**

Eyewash stations Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection If splashes are likely to occur, wear safety glasses with side-shields.

Wear suitable protective clothing. Skin and body protection

Hand protection Wear suitable gloves.

Respiratory protection When workers are facing concentrations above the exposure limit they must use appropriate

certified respirators.

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 stateSolidAppearancegranulesColourwhite

Odour faint halogen.

Odour threshold No information available

PropertyValuesRemarks • MethodpH4.5Saturated aqueous solution

Melting point / freezing point 240 °C Decomposes Boiling point/boiling range No data available None known Flash point No data available None known No data available **Evaporation rate** None known Flammability (solid, gas) None known Flammability Limit in Air None known

Upper flammability limit:No information availableLower flammability limit:No information available

 Vapour pressure
 No data available
 None known

 Vapour density
 No data available
 None known

Relative density

None known

Water solubility No data available 250 g/L

Solubility(ies) No data available None known **Partition coefficient** No data available None known **Auto-ignition temperature** No data available None known No information available **Decomposition temperature** None known Kinematic viscosity None known **Dynamic viscosity** No data available None known

Explosive properties

Oxidising properties

No information available
No information available

Other information

Softening point
Molecular weight
VOC content
Density
Bulk density
No information available

Section 10: Stability and reactivity

Reactivity

ReactivityDo not mix with other chemicals. Do not mix with different types of chlorinating chemicals.

Do not allow contact with combustible material such as paper, fabric, saw dust and

kerosene. May explode with combustibles.

Chemical stability

Stability Stable under normal conditions.

Explosion data

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Sensitivity to mechanical impact None. Sensitivity to static discharge

Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

Conditions to avoid

Excessive heat. Conditions to avoid

Incompatible materials

Incompatible materials None known based on information supplied.

Hazardous decomposition products

Hazardous Decomposition Products Halogen containing gases. Carbon oxides. Chlorine gas. Bromine gas.

Section 11: Toxicological information

Acute toxicity

Information on likely routes of exposure

Product Information

Inhalation Irritating to respiratory system. Specific test data for the substance or mixture is not

available. Fatal if inhaled. (based on components). May cause irritation of respiratory tract.

Eve contact Risk of serious damage to eyes. Specific test data for the substance or mixture is not

available. Causes serious eye irritation. (based on components). May cause redness,

itching, and pain.

Skin contact Irritating to skin. Contact with moist skin may cause skin burns. Causes burns. May be

harmful in contact with skin. Specific test data for the substance or mixture is not available. May cause irritation. Prolonged contact may cause redness and irritation. May be harmful in

contact with skin.

Ingestion Harmful if swallowed. Specific test data for the substance or mixture is not available.

Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea. Harmful if

swallowed. (based on components).

Symptoms Coughing and/or wheezing. Difficulty in breathing. May cause redness and tearing of the

eyes.

Numerical measures of toxicity - Product Information

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

ATEmix (oral) 500.00 mg/kg ATEmix (dermal) 4,081.60 mg/kg ATEmix (inhalation-dust/mist) 0.270 mg/l

Unknown acute toxicity

15 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

15 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Sodium	= 1823 mg/kg (Rat)	> 5000 mg/kg (Rat)	0.27 - 1.17 mg/L (Rat, dust) 4
Dichloro-S-Triazinetrione			l h l

See section 16 for terms and abbreviations

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Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation May cause skin irritation.

Serious eye damage/eye irritation Classification based on data available for ingredients. Causes serious eye irritation.

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 May cause respiratory irritation.

STOT - repeated exposure No information available.

Aspiration hazard No information available.

Section 12: Ecological information

Ecotoxicity

Aquatic ecotoxicity

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

environment.

Chemical name	Algae/aquatic plants	Fish	Toxicity to	Crustacea
			microorganisms	
Sodium	-	LC50: 0.13 - 0.36mg/L	-	EC50: 0.00018 -
Dichloro-S-Triazinetrione		(96h, Oncorhynchus		0.00021mg/L (48h,
		mykiss)		Daphnia magna)
		LC50: 0.176 - 0.267mg/L		EC50: 0.093 - 0.16mg/L
		(96h, Oncorhynchus		(48h, Daphnia magna)
		mykiss)		
		LC50: 0.207 - 0.389mg/L		
		(96h, Lepomis		
		macrochirus)		
		LC50: 0.25 - 1mg/L (96h,		
		Lepomis macrochirus)		
		LC50: =0.29mg/L (96h,		
		Oncorhynchus mykiss)		

Terrestrial ecotoxicty There is no data for this product.

Persistence and degradability

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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

Dispose of waste in accordance with environmental legislation. Dispose of in accordance

with local regulations.

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

products

UN Number UN1759

Proper shipping name Corrosive solids, n.o.s. (Sodium dichloro-s-triazinetrione)

Transport hazard class(es) 8
Packing Group III

IATA

UN number or ID number UN1759

Proper shipping name Corrosive solid, n.o.s. (Sodium dichloro-s-triazinetrione)

Transport hazard class(es) 8
Packing group | | | |

Description UN1759, Corrosive solids, n.o.s. (Sodium dichloro-s-triazinetrione), 8, III

IMDG

UN number or ID number UN1759

Proper shipping name Corrosive solid, n.o.s. (Sodium dichloro-s-triazinetrione)

Transport hazard class(es) 8
Packing Group III
EmS-No F-A. S-E

Description UN1759, Corrosive solids, n.o.s. (Sodium dichloro-s-triazinetrione), 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

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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)

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

Poison Schedule Number

Australian Industrial Chemicals Introduction Scheme (AICIS)

	Australian Industrial Chemicals Introduction Scheme (AICIS)	Additional information
Sodium Dichloro-S-Triazinetrione - 2893-78-9	Present	-

Illicit Drug Precursors/Reagents

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

Major hazard (accident/incident planning) regulation

Verify that license requirements are met

Hazardous chemical

Materials that meet the criteria for Toxic in table 15.3

Threshold quantity (T)

200

International Inventories

AICS Complies. NZIoC Complies.

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.

ECSC Contact supplier for inventory compliance status.

KECL Contact supplier for inventory compliance status.

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 23-Aug-2022

Revision Note

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) EPA (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)

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

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End of Safety Data Sheet

^{***}Indicates updated data since last publication.