Safety Data Sheet

Review Date: 25 August 2021

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name:	**HY-CLOR SPA SANITISER TABLETS 1.3kg**
Shipping Name:	Bromochloro-5,5- Dimethylhydrantoin
Product Code:	HYCSPA01-600g
UN Number:	UN1479
APVMA Product Number:	56160
Recommended Use of the Chemical and Restrictions on Use:	Disinfectant for Spas and heated pool
Chemical Formula:	N/A
Supplier:	HY-CLOR AUSTRALIA PTY LTD
Street Address:	178 Power Street Glendenning NSW 2761
Telephone Number:	02 8805 2400
After Hours Contact:	0404 859 515
Facsimile:	02 8805 2401
Email Contact:	help@hyclor.com.au
Emergency Telephone:	**13 11 26 (Australia Poisons Information Centre)** **New Zealand 0800 764 766**

2. HAZARDS IDENTIFICATION

Classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for Transport by Road and Rail; DANGEROUS GOODS.
Poison Schedule: 6
This material is hazardous according to Safe Work Australia; HAZARDOUS SUBSTANCE.

Classification of the substance or mixture:
Oxidising Solids – Category 2
Acute Toxicity – Category 4
Skin Corrison /Irritation – Cat 1B
Acute Hazard to Aquatic Environment – Category 1

Hazard pictograms

SIGNAL WORD: DANGER

Hazard Statement(s):

This material is hazardous

H272: Oxidiser, May intensify Fire
H302: Harmful if swallowed
H314: Causes Skin Burn and Eye Damage
H400: Very Toxic to Aquatic Life

Precautionary Statement(s) :

P210: Keep away from Sparks, No Smoking
P220: Store Away from Combustible Material
P264: Wash Hands properly after using
P270: Do not eat, drink or smoke while using this product
P260: Do no breathe Dust, smoke etc.

Response:

P370+P378: In case of fire; Use appropriate extinguisher
P301+P312: If Swallowed Call poison centre
P301, P330, P331 : If swallowed, rinse mouth, do not induce vomiting
P304+P340: If inhaled, remove victim to fresh air, keep at rest in a comfortable position
P305+P351+P338: If in eyes; Rinse cautiously with water for several minutes. Remove contact lenses

Related Information	
DG Class	**5.1**
Packaging Group	**III**
Hazchem Code	**1Y**

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients Proportion	**CAS**
1-Bromo-3-Chloro-5,5-Dimethylimidazolidine-2,40dione	16079-88-2

Percentage > 96 % (89-97%) Inert Ingredients

4. FIRST AID MEASURES

General	Keep Victim warm and quiet. Obtain immediate medical care. Ensure that attending medical personnel are aware of the identity and nature of the product involved, and take precautionary measures to protect themselves.
Ingestion	DO NOT INDUCE VOMITING. Rinse mouth with water and then give plenty of water to drink. Seek medical attention if large amounts ingested. Call Poison Centre 13 11 26
Eye	If in eye(s) wash with large amounts of water for approximately 15 minutes holding eyelid(s) open. Seek medical attention immediately.
Skin	Remove contaminated clothing and wash skin thoroughly decontaminate clothing before re-use or discard. If swelling, redness, blistering or irritation occurs seek medical advice.
Inhalation	Remove the source of contamination or move the victim to fresh air. Ensure airways are clear and have qualified person give oxygen through mask if breathing is difficult. If victim has stopped breathing begin artificial respiration, or if heart has stopped, cardiopulmonary resuscitation. Seek immediate medical attention.
First Aid Facilities	Eye wash and normal washroom facilities. First Aid Kit.
Advice to Doctor	Treat symptomatically

Medical Conditions that may Be Aggravated by Exposure	Asthma and respiratory and cardiovascular disease

5. FIRE FIGHTING MEASURES

Hazchem Code	1Y
Extinguishers	Use flooding amounts of water from a distance. Take care as contact with water will release toxic chlorine gas. Do not use foam or dry agent.
Fire Fighting Procedures	Wear self-contained breathing apparatus (SCBA) and protective clothing.
Hazardous Decomposition Products	Decomposes on heating emitting toxic fumes of chlorine as well as liberating oxygen.
Other precautions	Not combustible, however (oxidizer) ignites combustible or organic materials when in contact. Emits toxic fumes of chlorine as well as liberating oxygen, therefore dangerous in a fire situation. Keep away from heat, sparks or naked flames. Heating may cause explosion. Contact with acids or strong alkalis may generate heat.

6. ACCIDENTAL RELEASE MEASURES

Spills	Evacuate all unnecessary personnel. Wear protective clothing as specified in the Personnel Protection section of the SDS. Sweep up material and place into a suitable labelled container. Collect with spark free tools, avoid the creation of dust. Mop up the remaining material and place into the same container. If large quantities of the material enter the waterways contact the Environmental Protection Authority, or your local Waste Management Authority

7. HANDLING AND STORAGE

Handling	Avoid skin and eye contact and inhalation of dust. Wear appropriate protective equipment and clothing. Use in a well ventilated area. Avoid spillage onto floor. Keep containers closed when not in use. Maintain personal hygiene by washing hands prior to eating, drinking, smoking or using toilet.
Storage	Store in a cool, dry, well ventilated area, out of direct sunlight. Store in suitable, labelled containers. Avoid any dust build-up by frequent cleaning and suitable construction of storage area. Keep storage separated from work areas. Inspect periodically for deficiencies such as damage or leaks.
Incompatibilities	Store away from organic and/or combustible agents.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Standards	No ingredients in this product have exposure standards, as outlined in the standard *Exposure Standards for Atmospheric Contaminants in the Occupational Environment* third edition, published by the National Occupational health and Safety Commissions/AGPS,1995.
Engineering Measures	Avoid generating and inhaling dusts. Use in a well ventilated area only. Keep containers in a well ventilated area. Local exhaust ventilations system may be required, especially if chlorine gas evolved.

Personal Protection Equipment

Clothing	Suitable protective clothing should be worn e.g. cotton overalls and safety shoes.
Skin Protection	Impervious PVC or rubber gloves should be worn.
Eye Protection	Safety glasses with side shields or goggles should be worn.

Respiratory Protection	If dust exists, wear respirator meeting the requirements of AS/NZS 1716.
Personal Hygiene	Ensure a high level of personal hygiene is maintained when using this product. Always wash hands before eating, drinking, smoking or using the toilet.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Solid, Odourless White
Boiling Point	N/A
Freezing/Melting Point N/A	
Vapour Pressure	N/A
Specific Gravity	N/A
Flash Point	N/A
Upper Flammability Limit	N/A
Lower Flammability Limit	N/A
Solubility in Water	Appreciable
pH	3.5 0.15 % w/w

10. STABILITY AND REACTIVITY

Chemical Stability	Rapidly decomposes on exposure to air. May decompose violently if exposed to heat or direct sunlight. Thermally unstable.
Conditions to Avoid	Avoid high temperatures and high humidity.
Incompatible Material	Reactive or incompatible with the following materials, oxidising materials, reducing materials, combustible materials, acids, aklais and moisture. Contact with acids liberates toxic gas.
Hazardous Decomposition Products	Thermal decomposition products include toxic chlorine gas.

11. TOXICOLOGICAL INFORMATION

Toxicology Information	Dermal LD 50 (rabbit) > 2000 mg/kg Oral LD 50 (rat) = 485 mg/kg
Acute Effects	
Swallowed	Harmful or fatal if swallowed. Ingestion may cause nausea, vomiting, shock and coma. Corrosive. Will cause severe damage to the mucous membranes, including irritation and/or burns to the entire gastrointestinal tract. This is characterised by nausea, vomiting, diarrhea, abdominal pain, bleeding and/or tissue ulceration. May also cause circulatory collapse, cyanosis, shock, confusion, delirium and swelling of the throat or tongue resulting in obstruction of the airway.
Skin	Harmful in contact with skin. Corrosive to skin – causes burns. Dermal exposure can cause severe irritation and/or burns characterised by redness, swelling and scab formation. Skin contact may also cause eruptions and eczema.
Eye	Causes burns and is a severe eye irritant. Contact may cause impairment of vision or corneal damage.
Inhaled	The vapour is an irritant to the mucous membranes and respiratory tract. Inhalation of dust will result in respiratory irritation. Inhalation may result in headaches, dizziness and possible nausea. May also cause burns to the

respiratory tract with the production of lung edema which can result in shortness of breath, wheezing, choking, chest pain and impairment of lung

	function. Inhalation of high concentrations can result in permanent lung damage.
Long Term Effects	Prolonged skin exposure may cause destruction of the dermis with impairment of the skin at site of contact to regenerate.

12. ECOLOGICAL INFORMATION

Ecotoxicity Highly toxic to aquatic life. Avoid contaminating waterways.

13. DISPOSAL CONSIDERATIONS

Disposal Methods and Containers Dispose of according to relevant local, state and federal government regulations.

Special Precautions for Landfill Contact a specialist disposal company for landfill.

14. TRANSPORT INFORMATION

UN Number	1479
Land Transport	ADG
UN Proper Shipping Name	Bromochloro-5-5 Dimethyhydantoin
Dangerous Goods Class	5.1 Oxidising Substance
Packing Group	III
Hazchem Code	1Y

Special Precaution to User This material is classified as a Class 5.1 Dangerous Good according to the Australian Code for the Transport of Dangerous Goods. Class 5.1 oxidising agents shall not be loaded or packed in the same vehicle or freight as

Class 1	Explosives
Class 2.1	Flammable Gases
Class 2.3	Toxic Gases
Class 3	Flammable Liquids
Class 4.1	Flammable Solids
Class 4.2	Spontaneously Combustible Substances
Class 4.3	Dangerous when Wet Substances
Class 5.2	Organic Peroxides
Class 6	Toxic Substances (where the toxic substances are fire risk substances)
Class 7	Radioactive Substances
Class 8	Corrosive Substances (Certain Exemptions Apply)
Class 9	Miscellaneous Dangerous Goods (where the miscellaneous dangerous goods are fire risk substances or Combustible Liquids).

15. REGULATORY INFORMATION

Poisons Standard (Scheduling):	Schedule 6
APVMA Product Number:	56160
ListingintheAustralian InventoryofChemical Substances(AICS)	Not applicable for APVMA registered products

16. OTHER INFORMATION

ADG	Australian Code for the Transport of Dangerous Goods by Road & Rail Edition 7.5, 2017
AS/NZS	Australian Standard/New Zealand Standard
CAS Number:	Unique Chemical Abstracts Service Registry Number
EC_{50}:	Ecotoxic Concentration 50% – concentration in water which is fatal to 50% of a test population (e.g. daphnia, fish species).
GHS:	Globally Harmonized System of classification and labelling of chemicals (GHS)
Hazchem Code:	Emergency action code of numbers and letters that provide information to emergency services, especially fire fighters
HCIS:	Hazardous Chemical Information System (http://hcis.safeworkaustralia.gov.au/HazardousChemical)
IARC:	International Agency for Research on Cancer
LD_{50}:	Lethal Dose 50% – dose which is fatal to 50% of a test population (usually rats).
IDLH:	Immediately dangerous to life or health (**IDLH**) is **defined** by the US National Institute for Occupational Safety and Health (NIOSH)
LC_{50}:	Lethal Concentration 50% – concentration in air which is fatal to 50% of a test population.
NTP:	National Toxicology Program (USA)
SDS:	Safety Data Sheet
STEL:	Short term exposure limit (STEL) means the time-weighted average maximum airborne concentration of a substance calculated over a 15 minute period.
TWA:	8-hour Time-weighted average (TWA) means the maximum average airborne concentration of a substance when calculated over an eight-hour working day, for a five-day working week.
WES:	Workplace exposure standard
UN Number:	United Nations Dangerous Goods Number

References:
Work Safe Australia Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice (February 2016). The exposure standards comply with the New Zealand and Australian Workplace Exposure Standards for Airborne Contaminants. The Dangerous Goods Classification complies with the Australian Code for the Transport of Dangerous Goods by Road & Rail Edition 7.5, 2017. Other information from ChemIDPlus and linked databases. European Chemicals Agency Classification and Labelling database. OECD SIDS.

Sections Revised: All

Replaces revision: August 2016

Disclaimer
This Safety Data Sheet (SDS) has been prepared in compliance with the Work Safe Australia Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice (February 2016). The information in this SDS should be provided to all who will use, handle, store, transport, or otherwise be exposed to this product. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. HY-CLOR Australia Pty. Limited shall not be held liable for any damage resulting from handling or from contact with the above product.

Mr Mark Sheridan
Technical Regulations Manager
Telephone: Australia + 61 2 8805 2400
New Zealand + 64 9 973 2477