

This SDS has been amended to comply with EPA NZ SDS Notice 2017 (as amended) Section Part B Clause 9.

**1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER**

<b>Product Name:</b>	HY-CLOR SPA SANITISER SPA TABLETS
<b>Chemical Name:</b>	1-bromo-3-chloro-5,5-dimethylimidazolidine-2,4-dione
<b>Alternative Chemical Name:</b>	1-Bromo-3-chloro-5,5-dimethylhydantoin Bromochloro-5,5-dimethylhydantoin
<b>Product Code</b>	HYCSPA01-600g, HYCSPA13, HYCSPA01NZ
<b>UN Number:</b>	UN3085
<b>APVMA Product Number:</b>	56160
<b>Recommended Use of the Chemical and Restriction</b>	
<b>On Use:</b>	Disinfectant for Spas and heated pool
<b>Supplier:</b>	Hy-Chlor (Australia) Pty Ltd
<b>Street Address:</b>	Suite A, Floor 8 Harbourview Building, 152, Quay Street, Auckland Central, Auckland 1010, NZ.
<b>Telephone Number:</b>	+6499732477 8.30 – 4.30 pm Monday to Friday
<b>After Hours Contact:</b>	0404 859 515 (Aus)
<b>Email Contact:</b>	<a href="mailto:help@hyclor.com.au">help@hyclor.com.au</a>
<b>Emergency Telephone:</b>	<b>0800764766</b> New Zealand National Poisons Centre: (24 hours) <b>111</b> (Transport, fire, ambulance only)

**2. HAZARDS IDENTIFICATION**

Classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code Edition 7.8)

**Poison Schedule: 6 Signal Word: POISON**

**GHS Classification of the substance or mixture:**

**Hazard pictograms**



**GHS SIGNAL WORD: DANGER**

**Hazard Statement(s):**

Oxidising Solid

Category 2

H272

May Intensify fire: oxidizer



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Acute Oral Toxicity	Category 4	H302	Harmful if swallowed
Skin irritation/corrosion	Category 1B	H314	Causes severe skin burns and eye damage
Aquatic acute toxicity	Category 1	H400	Very Toxic to the aquatic life

## Prevention

<b>P210:</b>	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
<b>P220</b>	Keep away from clothing and other combustible materials.
<b>P280</b>	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection
<b>P264</b>	Wash hands thoroughly after using
<b>P270</b>	Do not eat, drink or smoke when using this product
<b>P273</b>	Avoid release to the environment

## Response:

<b>P370+P378</b>	In case of fire Use appropriate extinguisher see section 5.
<b>P301+P312</b>	IF SWALLOWED: Call a POISON CENTER/doctor/...if you feel unwell.
<b>P330</b>	Rinse mouth.
<b>P301, P330, P331</b>	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
<b>P363</b>	Wash contaminated clothing before reuse.
<b>P304+P340</b>	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
<b>P310</b>	Wash contaminated clothing before reuse
<b>P305+P351+P338</b>	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
<b>P391</b>	Collect Spillage

## Disposal:

<b>P501</b>	In case of fire Use appropriate extinguisher see section 5.
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## Storage:

<b>P405</b>	Dispose of contents/container in accordance with local & regional waste disposal legislation
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## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	Percent	CAS Number
1-bromo-3-chloro-5,5-dimethylimidazolidine-2,4-dione	96-99%	16079-88-2

## 4. FIRST AID MEASURES

<b>General</b>	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.
<b>Ingestion</b>	DO NOT INDUCE VOMITING. Rinse mouth with water and then give plenty of water to drink. Call Poison Centre 13 11 26
<b>Eye</b>	If in eye(s) wash with large amounts of water for approximately 15 minutes holding eyelid(s) open. Seek medical attention immediately.
<b>Skin</b>	Remove contaminated clothing and wash skin thoroughly decontaminate clothing before re-use or discard. If swelling, redness, blistering or irritation occurs seek medical advice.



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<b>Inhalation</b>	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.
<b>First Aid Facilities</b>	Eye wash and normal washroom facilities. First Aid Kit.
<b>Advice to Doctor</b>	Treat symptomatically
<b>Medical Conditions that may Be Aggravated by Exposure</b>	Asthma and respiratory and cardiovascular disease

### 5. FIRE FIGHTING MEASURES

<b>Suitable extinguishing equipment</b>	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.
<b>Special protective equipment and precautions for firefighters</b>	Wear self-contained breathing apparatus (SCBA) and protective clothing.
<b>Specific hazards arising from the chemical</b>	Decomposes on heating emitting toxic fumes of chlorine as well as liberating oxygen. 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.
<b>Hazchem Code</b>	1W

### 6. ACCIDENTAL RELEASE MEASURES

<b>Personal precautions, protective equipment and emergency procedures</b>	Evacuate all unnecessary personnel. Avoid contact with eyes, skin and clothing. Do not inhale dust. Do not allow product to come into contact with other chemicals, especially acids, or with combustible materials such as paper, fabric, sawdust or kerosene. Do not allow to get damp. Use clean containers for dispensing. Do not mix with other chemicals. Do not mix with different types of chlorinating chemicals. Mix with water only. Do not add water to product - add the product to water, but in case of fire drench with water.
<b>Environmental precautions</b>	Keep spilt products out of drains, sewers and waterways. If large quantities of this material enter the waterways contact the Environmental Protection Authority, or your local Waste Management Authority.



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<b>Methods and materials for containment and cleaning up</b>	For <b>minor spills</b> , Sweep up avoiding generation of dust, place in a sealed container and place in garbage. Wash area down with excess water. DO NOT return spilled material to original container for re-use. For <b>major spills</b> Evacuate all unnecessary personnel. Wear protective clothing as specified in the Personnel Protection section of this SDS. Sweep up material avoiding generation of dust, and place into a suitable labelled container. Flush spillage area with large quantities of water. Do not allow wash water to enter waterways, sewers or drains. If large quantities of the material enter the waterways contact the Environmental Protection Authority.
<b>Safe storage, including any incompatibilities</b>	Store in a cool, dry well-ventilated area, out of direct sunlight. Store in labelled, original containers. Keep containers tightly closed and upright. Avoid spillage onto the floor

### 7. HANDLING AND STORAGE

Keep out of the reach of children.

<b>Handling</b>	Avoid skin and eye contact and inhalation of dust. Wear appropriate protective equipment and clothing. Use in a well ventilated area. Avoid spillage onto the floor. Keep containers closed when not in use. Maintain personal hygiene by washing hands prior to eating, drinking, smoking or using toilet.
<b>Storage</b>	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.
<b>Incompatibilities</b>	Store away from organic and/or combustible agents

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>Exposure Standards</b>	No ingredients in this product have exposure standards, as published by Safe Work Australia Hazardous Chemical Information System
<b>Engineering Measures</b>	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
<b>Personal Protection Equipment Clothing</b>	Suitable protective clothing should be worn e.g. cotton overalls and safety shoes.
<b>Skin Protection</b>	Impervious PVC or rubber gloves should be worn.
<b>Eye Protection</b>	Safety glasses with side shields or goggles should be worn.
<b>Respiratory Protection</b>	If dust exists, wear respirator meeting the requirements of AS/NZS 1716.
<b>Personal Hygiene</b>	Ensure a high level of personal hygiene is maintained when using this product. Always wash hands before eating, drinking, smoking or using the toilet.



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### 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Solid, Odourless White
<b>Molecular weight</b>	241.47 g/mol
<b>Melting Point</b>	120 °C
<b>Freezing/Melting Point</b>	No information available
<b>Vapour Pressure</b>	No information available
<b>Flash Point</b>	No information available
<b>Flammability Limit</b>	No information available
<b>Solubility in Water</b>	Slightly soluble
<b>pH</b>	3.5 in 0.15% solution
<b>Density</b>	0.87 – 0.92

### 10. STABILITY AND REACTIVITY

<b>Reactivity</b>	May react with strong bases or oxidizing agents.
<b>Chemical Stability</b>	Material is stable under normal conditions. Rapidly decomposes on exposure to air. May decompose violently if exposed to heat or direct sunlight. Thermally unstable.
<b>Conditions to Avoid</b>	Avoid high temperatures and high humidity
<b>Possibility of hazardous reactions</b>	No dangerous reaction known under conditions of normal use.
<b>Conditions to avoid</b>	Contact with incompatible materials. Excessive heat.
<b>Incompatible materials</b>	Combustible materials. Strong oxidizing agents. Bases. Contact with acids liberates toxic gas
<b>Hazardous Decomposition Products</b>	May include and are not limited to: Oxides of nitrogen. Hydrogen chloride. Hydrogen bromide.

### 11. TOXICOLOGICAL INFORMATION

<b>Toxicology Information</b>	Oral LD 50 (rat) = 578 - 1390 mg/kg Dermal LD 50 (rabbit) > 2000 mg/kg
<b>Routes of exposure</b>	Eye, Skin contact, Skin absorption, Inhalation, Ingestion.
<b>Information on likely routes of exposure</b> <b>Ingestion</b> <b>Inhalation</b> <b>Skin contact</b> <b>Eye contact</b>	Causes digestive tract burns. Harmful if swallowed. May cause irritation to the respiratory system Causes severe skin burns Causes serious eye damage.
<b>Symptoms related to the physical, chemical and toxicological characteristics</b>	Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.



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### Information on toxicological effects

<b>Acute toxicity</b>	Harmful if swallowed. May cause respiratory irritation.
<b>Skin corrosion/irritation</b>	Causes severe skin burns and eye damage
<b>Serious eye damage/eye irritation</b>	Causes serious eye damage.
<b>Respiratory or skin sensitisation</b>	Not expected to cause respiratory or skin sensitisation
<b>Mutagenicity</b>	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
<b>Carcinogenicity</b>	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.
<b>Reproductive toxicity</b>	This product is not expected to cause reproductive or developmental effects.
<b>Teratogenicity</b>	This product is not expected to cause teratogenicity effects.
<b>Specific target organ toxicity - single exposure</b>	Respiratory tract irritation
<b>Specific target organ toxicity – repeated exposure</b>	Not classified
<b>Aspiration hazard</b>	Not expected to be an aspiration hazard
<b>Chronic effects</b>	Not classified
<b>Name of Toxicologically Synergistic Products</b>	No information available

### 12. ECOLOGICAL INFORMATION

<b>Ecotoxicity</b>	Highly toxic to aquatic life. Avoid contaminating waterways. Rainbow Trout LC <sub>50</sub> 0.4 mg/l, 96 Hours
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<b>Persistence and degradability</b>	No data found
<b>Bioaccumulative potential</b>	No data found
<b>Mobility in soil</b>	No data found
<b>Other adverse effects</b>	No other adverse environmental effects are expected from this component.

### 13. DISPOSAL CONSIDERATIONS

<b>Disposal Methods</b>	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This material and its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national regulations.
<b>Container Disposal</b>	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.



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### 14. TRANSPORT INFORMATION

Consult the ADG 7.8, IMDG and ICAO/IATA Codes for all the transport requirements for the specified UN Number.

	Land Transport (ADG 7.5)	Sea Transport (IMDG)	Air Transport (ICAO/IATA)
UN Number	3085	3085	3085
UN proper shipping name	OXIDIZING SOLID CORROSIVE N.O.S. (1-bromo-3-chloro-5,5-dimethylimidazolidine-2,4-dione)	OXIDIZING SOLID CORROSIVE N.O.S. (1-bromo-3-chloro-5,5-dimethylimidazolidine-2,4-dione)	OXIDIZING SOLID CORROSIVE N.O.S. (1-bromo-3-chloro-5,5-dimethylimidazolidine-2,4-dione)
Transport Hazard Class	5.1	5.1	5.1
Subsidiary Hazard Class	8	8	8
Packaging Group	II	II (see IMDG Code for details)	II (see IATA Code for details)
Marine Pollutant	Yes	Yes	Yes
Special Provisions*	223		
Packaging Instruction*	P002		

- See ADG 7.8 for details

**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

EPA NZ Approval	Water Treatment Chemicals (Oxidising Liquids and Solids) Group Standard 2020 – HSR002683
Listed in NZ NZIoC	May be used under an appropriate Group Standard
Poisons Standard (Scheduling):	Schedule 6 (Chlorinating Compounds)



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<b>APVMA Product Number:</b>	56160
<b>Listing in the Australian Inventory of Chemical Substances (AICS)</b>	Not applicable for APVMA registered products

## 16. OTHER INFORMATION

<b>ADG</b>	Australian Code for the Transport of Dangerous Goods by Road & Rail Edition 7.8, 2023
<b>AS/NZS</b>	Australian Standard/New Zealand Standard
<b>CAS Number</b>	Unique Chemical Abstracts Service Registry Number
<b>EC<sub>50</sub>:</b>	Ecotoxic Concentration 50% – concentration in water which is fatal to 50% of a test population (e.g. daphnia, fish species).
<b>GHS</b>	Globally Harmonized System of classification and labelling of chemicals (GHS)
<b>Hazchem Code</b>	Emergency action code of numbers and letters that provide information to emergency services, especially fire fighters
<b>HCIS</b>	Hazardous Chemical Information System ( <a href="http://hcis.safeworkaustralia.gov.au/HazardousChemical">http://hcis.safeworkaustralia.gov.au/HazardousChemical</a> )
<b>IARC</b>	International Agency for Research on Cancer
<b>LD<sub>50</sub></b>	Lethal Dose 50% – dose which is fatal to 50% of a test population (usually rats).
<b>IDLH</b>	Immediately dangerous to life or health ( <b>IDLH</b> ) is <b>defined</b> by the US National Institute for Occupational Safety and Health (NIOSH)
<b>LC<sub>50</sub></b>	Lethal Concentration 50% – concentration in air which is fatal to 50% of a test population
<b>SDS</b>	Safety Data Sheet
<b>UN Number</b>	United Nations Dangerous Goods Number

### References:

Work Safe Australia Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice (June 2023). Hazardous Substances SDS Notice 2017 as consolidated Sept 2022. EPA NZ Inventory of Industrial Chemicals. 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 7.8, 2023. Other information from ChemIDPlus and linked databases. European Chemicals Agency Classification and Labelling database. SDS for active constituent.

### Sections Revised: All

Replaces revision: June 2023

### Disclaimer

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.





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