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OSPA BROMINE

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name	OSPA Bromine
Product Code	-
Other Names	Bromo Chloro Dimethyl Hydantoin, BCMDH, agribrom, aquabrom, aquabrome, bromicide
Product Use	Swimming pool and spa disinfectant.
Company Name	Focus Products Pty Ltd
Address	35 Moreton St Heathwood QLD 4110
Telephone Number	1300 1 36287
Emergency Telephone	0411 623 619 (A/H)

2. HAZARDS IDENTIFICATION

HAZARDOUS SUBSTANCE. DANGEROUS GOODS.

Classified as hazardous according to the criteria of Safe Work Australia.

Hazards	Xn – Harmful C – Corrosive O – Oxidising
Risk Phrases	R8 - Contact with combustible material may cause fire. R31 - Contact with acids liberates toxic gas. R22 - Harmful if swallowed. R23 - Toxic by inhalation. R34 - Causes burns. R43 - May cause sensitisation by skin contact. R50 - Very toxic to aquatic organisms.
Safety Phrases	S2 - Keep out of reach of children. S8 - Keep container dry. S17 - Keep away from combustible material. S20 - When using, do not eat or drink. S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection. S41 - In case of fire and/or explosion, do not breathe fumes. S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). S60 - This material and its container must be disposed of as hazardous waste.

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3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient (common name)	CAS Number	Proportion
1-bromo-3-chloro-5, 5-dimethylhydantoin (BCMDH)	32718-18-6	95.0%
Related impurities	Not applicable	5.0%

4. FIRST AID MEASURES

Inhalation	If inhaled remove victim to fresh air. Apply CPR if victim is not breathing. Administer oxygen if breathing is difficult. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Seek immediate medical attention.
Ingestion	Immediately rinse mouth with water. If swallowed, DO NOT induce vomiting. Give a glass of water to drink. Never give anything by mouth to an unconscious person. Seek immediate medical attention.
Skin	If skin contact occurs, immediately remove contaminated clothing and wash skin with running water and soap for at least 15 minutes. Seek medical attention if swelling, redness, blistering or irritation occurs.
Eyes	If eye contact occurs, hold eyelids apart and flush the eye continuously with large amounts of water for at least 15 minutes. Seek immediate medical attention.

5. FIRE FIGHTING MEASURES

	For major fires call the Fire Brigade. Ensure that an escape path is available from any fire.
Suitable Extinguishing Media	Water spray, carbon dioxide or dry powder.
Hazardous Combustion Products	Hydrogen bromide and/or bromine, oxides of nitrogen and carbon monoxide and carbon dioxide.
Firefighting Equipment	Wear Safe Work Australia approved self-contained breathing apparatus and full protective clothing.
Unusual Fire or Explosion Hazards	Non flammable solid. In large fires fueled by other materials, this product may smolder for prolonged periods emitting a dense black smoke.
Hazchem Code	1W

6. ACCIDENTAL RELEASE

Spills	Wearing appropriate protective equipment, carefully sweep material and place in suitable labeled containers for disposal. Avoid creating dust. Wipe up remaining spillage with damp rags and place rags in the container for disposal.
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7. HANDLING AND STORAGE

Handling	Wear protective clothing. Avoid breathing dust and skin and eye contact while handling the product. Wash exposed areas with soap and water. Ensure good industrial hygiene practice.
Storage	Store in a cool, dry, well ventilated place and out of direct sunlight. Recommended storage temperature for this material is 20°C. Keep containers sealed and dry. Store away from incompatible materials. Keep containers closed when not in use. Keep away from all sources of ignition and incompatible materials.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Standards (Safe Work Australia)	No exposure standards set.
Engineering Controls	When product is handles or used in a manufacturing or packaging facility, proper dust exhaustion is strictly required in order to minimise the potential for dust explosion. However, such electrostatic/dust hazard is applicable to the powdery material.
Respiratory Protection	Select respirator based on its suitability to provide adequate worker protection for given working conditions and level of airborne contamination. See Australian Standards AS/NZS 1715 and 1716 for more information.
Eye Protection	Use air-purifying respirator when airborne chemical dust or mist may be present. Eye and face protectors for protection against dust. See Australian/New Zealand Standard AS/NZS 1337.
Skin Protection	PVC, PVA, nitrile, neoprene, rubber or vinyl gloves. See Australian/New Zealand Standard AS/NZS 2161 for more information. When selecting gloves for use against certain chemicals, the degradation resistance, permeation rate and permeation breakthrough time should be considered.
Hygienic Practices	Occupational protective clothing (depending on conditions in which it has to be used, in particular as regards the period for which it is worn, which shall be determined on the basis of the seriousness of the risk, the frequency of exposure to the risk, the characteristics of the workstation of each worker and the performance of the protective clothing. See Australian/New Zealand Standard AS/NZS 4501 for more information. Food, beverages and tobacco products should not be stored or consumed where this material is in use. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use. Provide eyewash fountains and safety showers in close proximity to points of potential exposure.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	White tablets
Odour	Faint pungent halogen odour.
Solubility in water	Soluble (0.2g/0.1L @ 25°C)
Boiling Point	No information available

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Melting point	Not applicable (decomposes on temperature >160°C)
Vapour Pressure (mm of Hg @ 25°C)	No information available
Vapour Density (Air = 1)	No information available
Specific Gravity	No information available
pH	No information available
Flash Point	Not applicable
Flammable Limit – Lower	Not applicable

10. STABILITY AND REACTIVITY

Chemical Stability	Stable under normal conditions of handling and use.
Incompatible Materials	Oxidising and reducing agents, organic chemicals.
Hazardous Decomposition Products	Thermal decomposition may produce hydrogen bromide and/or bromine, oxides of nitrogen and carbon monoxide and carbon dioxide.
Hazardous Polymerization Conditions to Avoid	Will not occur. High temperature, moisture/high humidity.

11. TOXICOLOGICAL INFORMATION

Toxicity	Oral LD ₅₀ (rat) = 1500mg/kg Dermal LD ₅₀ (rat) < 2.0g/kg Inhalation LC ₅₀ (rat) > 0.53 mg/L / 4 hours
Routes of Exposure	Inhalation, ingestion, eye and skin
Health effects from likely routes of exposure	Inhalation: Harmful if inhaled. Irritating to the respiratory system. Ingestion: Harmful if swallowed. May be fatal. Eye: Direct eye contact causes severe eye irritation. Can cause irreversible eye damage. Skin: Corrosive to tissues. May cause burns to skin.
Effects of Overexposure	No information available.
Existing Conditions	Excessive dust inhalation in a confined area may aggravate pre-existing conditions of the respiratory system.
Aggravated by Exposure	
Carcinogenicity	This product does NOT contain any IARC listed chemicals.

12. ECOLOGICAL INFORMATION

Ecotoxicity	This product is toxic to fish and aquatic organisms. Do not discharge this product into lakes, streams or ponds. LC ₅₀ in water flea (48 hrs) = 0.48mg/L LC ₅₀ in rainbow trout (96 hrs) = 0.87mg/L LC ₅₀ in fathead minnow (96 hrs) = 2.25mg/L LC ₅₀ in grass shrimp (96 hrs) = 13mg/L LC ₅₀ in sheepshead minnow (96 hrs) = 20mg/L LC ₅₀ in American oyster (96 hrs) > 640 mg/L
Mobility	No information available

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13. DISPOSAL CONSIDERATIONS

Disposal methods and containers	Dispose according to applicable local and state government regulations.
Special precautions for landfill or incineration	Please consult your state Land Waste Management Authority for more information

14. TRANSPORT INFORMATION

Classified as a dangerous good according to the Australian Code for the Transport of Dangerous goods by road or rail (ADG 7).

UN Number	3085
Proper Shipping Name	OXIDIZING SOLID, CORROSIVE, N.O.S. (1-bromo-3-chloro-5, 5-dimethylhydantoin)
Dangerous Goods Class	5.1
Subsidiary Risk	Not applicable
Hazchem Code	1W
Packing Group	III
Special Provisions	223, 274
Limited Quantities	5 kg
Packagings & IBCs - Packing Instruction	P002, IBC08
Packagings & IBCs - Special Packing Provisions	B3
Portable Tanks & Bulk Containers – Instructions	T1
Portable Tanks & Bulk Containers – Special Provisions	TP33

15. REGULATORY INFORMATION

1-bromo-3-chloro-5, 5-dimethylhydantoin is not listed in the Australian Inventory of Chemical Substances (AICS).

16. OTHER INFORMATION

Last Revision of MSDS Rev 3.0 (25/06/2014)
Prepared by MSDS.COM.AU Pty Ltd

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Abbreviations Used

IARC: International Agency for Research on Cancer

STEL: Short term exposure limit

TWA: Time weighted average

Emergency Contacts

Focus Products Pty Ltd

1300 1 36287

Focus Products Pty Ltd – Emergency Number

0411 623 619 (A/H)

Police and Fire Brigade

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Poisons Information Centre

13 11 26

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Please read instructions / label before using product.

This MSDS is prepared in accord with the Safe Work Australia document "National Code of Practice for the Preparation of Material Safety Data Sheets" 2nd Edition [NOHSC:2011(2003)]