

SAFETY DATA SHEET

Product Name: Bromine Tablets

1. Chemical product and company identification

Product name	Bromine Tablets
Chemical name	BCDMH
Product type and use	Swimming pools
Company identification	Swimmingpoolchemicals
Address and telephone number	Unit 5, Pool Bank Park High Street, Tarvin, Chester CH3 8JH
Emergency telephone number	01829 740290

2. Composition/Information on ingredients

Chemical Name	CAS No	Content (%)	Symbol	R-phrase(s)
Bromochloro-5,5-dimethylimidazolidine-2,4-dione (BCDMH)	32718-18-6	96%	O, C, N	R8 Contact with Combustible material may cause fire. R22 Harmful by ingestion R31 Contact with acids liberates toxic gas. R34 Causes burns. R43 May cause skin to be sensitive R50 Very toxic to aquatic organisms

3. Hazards identification

Skin Contact	May cause skin sensitivity. Causes burns.
Ingestion	Harmful if ingested.
Environmental risks	Contact with acids liberates toxic gas. Very toxic to aquatic organisms. Contact with combustible material may cause fire.

Product Name: Bromine Tablets

4. First-aid measures

Inhalation:

Move to fresh air. If breathing is irregular or stopped, administer artificial respiration. Give oxygen. First aider needs to protect himself. Call a physician immediately.

Skin contact:

Take off all contaminated clothing immediately. After contact with skin, wash immediately with plenty of soap and water. Call a physician immediately.

Contact with eyes:

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Call a physician immediately.

Ingestion:

Call a physician immediately. Clean mouth with water and drink afterwards plenty of water. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.

5. Fire-fighting measures

- Suitable
- Specific hazards arising
- Protective equipment
- Additional advice

Water spray, dry powder, foam.
Heating or fire can release toxic gas.
In the event of fire, wear self-contained breathing apparatus
Water mist may be used to cool closed containers.

6. Accidental release measure

Personal precautions:

In the case of respirable dust, use self-contained breathing apparatus and dust impervious protective suit.

Environmental precautions:

Keep spill out of sewers and open bodies of water.

Methods for cleaning up:

Keep spill out of sewers and open bodies of water. Sweep up spills into appropriate containers for recovery or disposal.

7. Handling and Storage

Handling

Provide sufficient air exchange and/or exhaust in work rooms. Avoid contact with skin and eyes. Avoid formation of respirable particles.
Incompatible with oxidising agents. Keep away from combustible material. Avoid dust formation.

Storage

Keep container tightly closed. To maintain product quality, do not store in heat or direct sunlight. Keep in a dry, cool and well-ventilated place.

Keep away from combustible material.
Incompatible with oxidising agents.

Product Name: Bromine Tablets

8. Exposure controls/Personal Protection

Hygiene measures:	Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing and gloves, including the inside, before re-use.
Respiratory protection:	Use respirator when performing operations involving potential exposure to particulates of the product.
Hand protection:	Rubber or plastic gloves.
Eye protection:	Wear eye/face protection.
Skin and body protection:	Wear suitable protective clothing and gloves.

9. Physical and Chemical Properties

Appearance:	Solid
Form	Tablet
Colour	White
Odour	Weakly stringent
Relevant data for safety:	
Melting point/range	156 – 162°C Decomposition: yes Method: OECD TG 102
Boiling point/range	Decomposition: yes Not applicable
Vapour pressure	3,8 mPa (25°C) Method: OECD TG 104
Relative Density	1,87 (23°C) Method: OECD TG 109
Water solubility	Hydrolyses Method: OECD TG 105

10. Stability and Reactivity

Conditions to avoid	No data available
Hazardous reactions	Stable under normal conditions

11.	Toxicological Information	<p>Acute oral toxicity LD50 485 mg/kg, Species: rat, Method: FIFRA</p> <p>Acute dermal toxicity LD50 >2000 mg/kg, Species: rabbit, Exposure time: 24 hr, Method: FIFRA</p> <p>Eye irritation Corrosive, Species: rabbit, Method: FIFRA</p> <p>Skin irritation Corrosive, Species: rabbit, Exposure time: 24 hr, Method: FIFRA</p> <p>Sensitisation Sensitising, Species: guinea pig, Buehler Test</p>
12	Ecological Information	<p>Ecotoxicity effects</p> <p>Toxicity to fish LC50 0,65 mg/l. Species: Rainbow trout. Acute toxicity. Exposure time:96 hr. Method: US-EPA</p> <p>Toxicity to fish LC50 1,17 mg/l. Species: Bluegill sunfish. Acute toxicity. Exposure time: 96 hr. Method US-EPA</p> <p>Toxicity to daphnia EC50 0,87 mg/l. Species: Daphnia magna. Immobilisation. Exposure time: 48 hr. Method:US-EPA</p> <p>Persistence and degradability</p> <p>Stability in water Abiotic degradation. Hydrolytically degradable. Halflive value t1/2: <10 min. pH: 4.9. Method: OECD Test Guideline 111</p>

Product Name: Bromine Tablets

13. Disposal Considerations

Waste from residues: The organic ingredients can be incinerated in a suitable installation when in accordance with local regulations.

Contaminated Packaging: Where possible recycling is preferred to disposal or incineration.

14. Transport Information

ADR, RID
UN/ID No
Proper shipping name
Class: 5.1. Packaging Group II
Labels: Oxidising Agent No 5.1. Corrosive No 8
Risk No: 58
3085
Oxidising solid, corrosive, n.o.s.
Bromochloro-5,5-dimethylimidazoline-2,4-dione (BCDMH)

IATA Cargo
UN/ID No
Proper shipping name
Class: 5.1. Packaging Group II
Labels: Oxidising Agent No 5.1. Corrosive No 8
Cargo Aircraft only
3085
Oxidising solid, corrosive, n.o.s.
Bromochloro-5,5-dimethylimidazoline-2,4-dione (BCDMH)

IATA Passenger
UN/ID No
Proper shipping name
Class: 5.1. Packaging Group II
Labels: Oxidising Agent No 5.1. Corrosive No 8
Packing instruction (passenger aircraft): 508
3085
Oxidising solid, corrosive, n.o.s.
Bromochloro-5,5-dimethylimidazoline-2,4-dione (BCDMH)

IMDG-Code
UN/ID No
Proper shipping name
Class: 5.1. Packaging Group II
Labels: Oxidising Agent No 5.1. Corrosive No 8
EmS: 5.1-05. Marine pollutant: yes
3085
Oxidising solid, corrosive, n.o.s.
Bromochloro-5,5-dimethylimidazoline-2,4-dione (BCDMH)

Product Name: Bromine Tablets

15. Regulatory information	Symbol	O C D	Oxidising Corrosive Dangerous for the Environment
	R-phrase	R8 R22 R31 R34 R43 R50	Contact with combustible material may cause fire Harmful if swallowed Contact with acids liberates toxic gas Causes burns May cause sensitisation by skin contact Very toxic to aquatic organisms
National legislation Water contaminating class (Germany)	S-phrase	S8 S26	Keep container dry 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
		S45	In case of accident or if you feel unwell, seek medical advice immediately (show label where possible)
		S61	Avoid release to the environment. Refer to special instructions/safety data sheets.
			WGK 2: Water endangering

16. Other information			
Inventories		EINECS: yes, 251-171-5 Toxic Substances Control Act (TSCA) Inventory: yes, EPA No:P94-34 Canadian Domestic Substances List (DSL):no Canadian Non-Domestic Substances List (NDSL):no Japanese Handbook of Chemical Substances (MITI):no Inventaire Koreen des produits chimiques (KECI): no Australian Inventory of Chem. Substances: no Phillippine Inventory of Chem. Substances (PICCS): yes Swiss Poison List 1 (Substances): no	
Other regulations		For this product the following CAS-number is also applicable 16070-88-2	

The statements made herein are based on our best present experience and are intended to describe product safety requirements. They should not therefore be considered as a warranty of specific properties.