



SAFETY DATA SHEET

1 Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product Name: **Bromine Tablets**
Datasheet Number: SP142 1. 0. 0
Product Part Number: SP142
Chemical Name: Bromochloro-5,5-dimethylimidazolidine-2,4-dione
CAS No.: 32718-18-6

1.2 Relevant identified uses of the substance or mixture and uses advised against

Pool / spa treatment

1.3 Details of the supplier of the safety data sheet

Name of Supplier: Total Pool Chemicals Ltd
Address of Supplier: Unit 1, Pool Bank Business Park
High Street, Tarvin
Chester CH3 8JH
UK
Telephone: +44 (0)1829 740290
Fax: +44 (0)1829 741855
Responsible Person: Steve Carder
Email: sales@totalpool.co.uk

1.4 Emergency telephone number

+44 (0)1829 740290 (Office Hours)

2 Hazards identification

2.1 Classification of the substance or mixture

- Classification (REGULATION (EC) No 1272/2008) [CLP/GHS]
- Ox. Sol. 2, H272
- Acute Tox. 4, H302
- Skin Corr. 1B, H314
- Skin Sens. 1, H317
- Aquatic Acute 1, H400
- EUH031
- Classification (67/548/EEC, 1999/45/EC)
- O; R8
- Xn; R22
- R31
- C: R34
- Xi; R43
- N; R50
- Additional information: For full text of R-phrases and Hazard- and EU Hazard-statements: see section 16

2.2 Label elements



2 Hazards identification (....)



- Signal Word: Danger
- Symbols: GHS03, GHS07, GHS05, GHS09

Hazard phrases

- May intensify fire; oxidizer.
- Harmful if swallowed.
- Causes severe skin burns and eye damage.
- May cause an allergic skin reaction.
- Very toxic to aquatic life.
- Contact with acids liberates toxic gas.
- Warning! Do not use together with other products. May release dangerous gases (chlorine).

Precautionary Phrases

- Store in a dry place.
- Wear protective gloves/protective clothing/eye protection/face protection.
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- IF ON SKIN: Wash with plenty of soap and water.
- IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
- Avoid release to the environment.

2.3 Other hazards

- Marine pollutant

3 Composition/information on ingredients

3.1 Mixtures

Chemical Name	Concentration	CAS Number	EC Number	R/H Phrases*	Symbols	Index No.
Bromochloro-5,5-dimethylimidazolidine-2,4-dione	98	32718-18-6	251-171-5	H272, H302 H314, H317, H400 R8, R22, R31 R34, R43, R50	GH303, GHS07 GHS05, GHS09 O, C, N	

*See Section 16

4 First aid measures

4.1 Description of first aid measures

- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- If breathing is difficult, oxygen should be given by a trained person
- IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
- Wash with plenty of soap and water.



4 First aid measures (....)

- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- Get immediate medical advice/attention.
- IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
- Give plenty of water to drink
- Mucosal damage may contraindicate the use of gastric lavage

4.2 Most important symptoms and effects, both acute and delayed

- Can cause damage to the eyes
- Can cause damage to the skin
- In cases of severe exposure, breathing difficulty may develop
- In cases of severe exposure, gastro-intestinal disturbances may develop

4.3 Indication of immediate medical attention and special treatment needed

- Treat symptomatically

5 Fire-fighting measures

5.1 Extinguishing media

- In case of fire: use water for extinction
- DO NOT USE dry extinguishers containing ammonium compounds such as dry powder.

5.2 Special hazards arising from the substance or mixture

- See Section 10.6
- Oxidising and Corrosive

5.3 Advice for firefighters

- Wear protective clothing as per section 8
- In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion.
- Wear full protective clothing including chemical protection suit
- Use water to cool containers exposed to fire.

6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- Avoid raising dust
- Wear protective clothing as per section 8
- Evacuate the area and keep personnel upwind

6.2 Environmental Precautions

- Avoid release to the environment.
- Do not allow to enter public sewers and watercourses
- If contamination of drainage systems or water courses is unavoidable, immediately inform appropriate authorities

6.3 Methods and material for containment and cleaning up

- Collect as much as possible in clean container for reuse or disposal
- Do not absorb spillage in sawdust or other combustible material
- Seek expert advice for removal and disposal of all contaminated materials and wastes

6.4 Reference to other sections

- See Section 7 & 8



7 Handling and storage

7.1 Precautions for safe handling

- Avoid raising dust
- Ensure adequate ventilation
- Avoid contact with combustible material
- Avoid breathing dust/fume/gas/mist/vapours/spray.
- Do not eat, drink or smoke when using this product.
- Wash thoroughly after handling.

7.2 Conditions for safe storage, including any incompatibilities

- Store away from other materials.
- Keep/Store away from clothing/.../combustible materials.
- Store in a dry place. Store in a closed container.
- Store in a well-ventilated place. Keep cool.
- Do not store above 25 °C
- Keep only in original container.

7.3 Specific end use(s)

- No information available.

8 Exposure controls/personal protection

8.1 Control parameters

Bromochloro-5,5-dimethylimidazolidine-2,4-dione

- WEL (long term) 0.5 ppm
- WEL (long term) 1.5 mg/m³
- WEL (short term) 1 ppm
- WEL (short term) 2.9 mg/m³

8.2 Exposure controls

- Engineering controls should be provided which maintain airborne concentrations below the relevant guidelines

Occupational exposure controls

- In case of inadequate ventilation wear respiratory protection.
- Wear suitable protective clothing, including eye/face protection and gloves (butyl rubber are recommended)
- When handling this substance, e.g. sampling, wear goggles giving complete eye protection



Respirator



Goggles



Gloves



Suit

9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

- Odour: Not available
- Appearance: Solid, white, tablets
- pH - not applicable
- Boiling point - not applicable
- Vapour pressure 3.8 mPa at 25 deg C



9 Physical and chemical properties (....)

- Vapour density - not applicable
- Melting point 156-162 deg C with decomposition
- Water solubility 0.2 mg/l
- Specific gravity 1.8-2.0 g/cm³
- Not flammable but will support combustion
- Oxidising
- Partition coefficient : n-Octanol/water - not known
- Evaporation rate - not known
- Viscosity - not applicable

9 .2 Other information

- Bulk density 60 lb/ft³

10 Stability and reactivity

10 .1 Reactivity

- Oxidising agent
- Warning! Do not use together with other products. May release dangerous gases (chlorine).

10 .2 Chemical stability

- No information available

10 .3 Possibility of hazardous reactions

- Contact with acids liberates toxic gas.

10 .4 Conditions to avoid

- Avoid contact with acids and alkalis
- Avoid contact with combustible material
- Avoid contact with foodstuffs
- Keep away from heat and sources of ignition
- Avoid contact with copper
- Avoid contact with oxidising substances

10 .5 Incompatible materials

- Incompatible with acids and alkalis
- Contact with acids liberates toxic gas.
- Incompatible with strong oxidizing substances

10 .6 Hazardous Decomposition Products

- Decomposition products include chlorine.
- Decomposition products may include halogen compounds
- Decomposition products may include nitrogen oxides

11 Toxicological information

11 .1 Information on toxicological effects

- LD50 (oral, rat) 485 mg/kg
- LC50 (inhalation, rat) 1.1 mg/l/4h
- LD50 (skin, rabbit) >2000 mg/kg
- Irritation to eyes (rabbit) : Corrosive
- Irritation to skin (rabbit) : Corrosive



11 Toxicological information (....)

- Sensitization (guinea pig) : Positive

Inhalation

- May cause breathing difficulty
- Can cause damage to the mucous membranes

Contact with skin

- Causes blistering of the skin
- Causes burning sensation
- In cases of severe exposure, dermatitis may develop

Contact with eyes

- Causes burning sensation
- Causes redness and swelling
- Can cause damage to the eyes

Ingestion

- Causes gastro-intestinal disturbances
- The ingestion of significant quantities may cause damage to digestive system
- The ingestion of significant quantities may cause burning sensation

Carcinogenicity

- No evidence of carcinogenic effects

Teratogenicity

- No information available

Mutagenicity

- No information available

12 Ecological information

12 .1 Toxicity

- Very toxic to aquatic life.
- LC50 (rainbow trout) 0.65 mg/l (96 hr)
- LC50 (bluegill sunfish) 1.17 mg/l (96 hr)
- EC50 (Daphnia magna) 0.87 mg/l (48 hr)

12 .2 Persistence and degradability

- Degrades by hydrolysis
- Degrades abiotically

12 .3 Bioaccumulation Potential

- No information available

12 .4 Mobility in soil

- Large volumes may penetrate soil and contaminate groundwater
- Marine pollutant

12 .5 Results of PBT and vPvB assessment

- Not a PBT according to REACH Annex XIII



12 Ecological information (....)

12.6 Other Adverse Effects

- No information available

13 Disposal considerations

13.1 Waste treatment methods

- Disposal should be in accordance with local, state or national legislation
- Do not reuse empty containers
- Uncontaminated material may be returnable. Contact supplier

Classification

- The waste must be identified according to the List of Wastes (2000/532/EC)

14 Transport information



Oxidizing Agent Corrosive Marine Pollutant

14.1 UN Number

3085

14.2 UN Proper Shipping Name

OXIDISING SOLID, CORROSIVE, N.O.S (Bromochloro-5,5-dimethylimidazoline-2,4-dione)

14.3 Transport hazard class(es)

5.1, 8

14.4 Packing group

II

14.5 Environmental hazards

- Marine pollutant

14.6 Special precautions for user

- See Section 7

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code

- Not applicable

Other information

Road/Rail (ADR/RID)

Proper Shipping Name:	OXIDISING SOLID, CORROSIVE, N.O.S (Bromochloro-5,5-dimethylimidazoline-2,4-dione)		
ADR UN No.:	3085		
ADR Hazard Class:	5.1, 8	ADR Packing Group:	II
Tunnel Code:	E		

