SAFETY DATA SHEET



1. Identification of the substance/preparation and of the company/undertaking

1.1 Product Identifier Bromine Tablets

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

Uses: For disinfection of pool and spa water.

1.3 Details of the supplier of the safety data sheet

Company: Complete Pool Controls Ltd

Unit 2, The Park Stoke Orchard Bishops Cleeve Gloucestershire GL52 7RS

Telephone: +44 (0) 8712 229081 Fax: +44 (0) 8712 229083

E-mail: <u>sales@cpc-chemicals.co.uk</u>

1.4 Emergency Telephone

Tel: +44 (0) 8712 229081 (office hours) +44 (0) 1242 300271 (outside of office hours)

2. Hazard Identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

 Hazard Class
 Hazard Statements

 Ox. Sol.2
 H272

 Skin Irrit.2
 H315

 Eye Irrit.2
 H319

 STOTSE 3
 H335

 Aquatic Acute 1
 H400

 Acute Tox. 4 *
 H302

EUH031

For the full text of the H statements mentioned in this section see Section 16.

Classification according to EU Directives 67/548/EEC or 1999/45/EC

Hazard Symbol/Category of danger Risk phrases

Harmful R22
Irritant R31
R36/37
Dangerous for the environment R50/53

For the full text of the R phrases mentioned in this section see Section 16.

Most important adverse effects

Human Health: See section 11 for toxicological information. Physical & Chemical Hazards: See section 9 for toxicological information. Potential environmental effects: See section 12 for toxicological information.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

Hazard symbols:









Signal word: Danger

(continued on Page 2)

2. Hazard Identification...cont

Hazard statements:

H272 May intensify fire; oxidiser
 H314 Harmful if swallowed.
 H400 Causes skin irritation
 H410 Causes serious eye irritation
 H302 May cause respiratory irritation
 H317 Very toxic to aquatic life.

EUH031 Contact with acid liberates toxic gas

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

Precautionary statements:

P101 If medical advice is needed, have product container or label at hand

P102 Keep out of reach of children

P103 Read label before use.

P210 Keep away from heat. - No smoking

P221 Take any precaution to avoid mixing with combustibles

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse

skin with water / shower

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do so. Continue rinsing.

P310 Immediately call a POISON CENTER or doctor/physician

P405 Store locked up.

Hazardous components which must be listed on the label

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

2.3 Other Hazards

Use biocides safely. Always read the label and product information before use.

Marine pollutant

3. Composition/information on ingredients

3.1 Substances

Chemical nature: Granules

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

CAS No EC No % H & S

32718-18-6 251-171-5 98% H272,H302,H315,H319,H335,H400

4. First Aid measures

4.1 Description of first aid measures

General Advice: Take off all contaminated clothing immediately.

If inhaled: Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

If breathing stops, provide artificial respiration.

At first remove dust mechanically. Drench the skin with plenty of water. Remove

In case of skin contact: contaminated clothing and wash before reuse. If large areas of the skin is damaged or

if irritation persists seek medical attention

In case of eye contact:

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

Remove contact lenses. Protect unharmed eye. Call a doctor immediately

If swallowed: Clean mouth with water and drink afterwards plenty of water. Never give anything by

mouth to an unconscious person. Do NOT induce vomiting. Call a physician

(continued on Page 3)

4. First Aid measures continued

4.2 Most important symptoms and effects, both acute and delayed

Symptoms: See Section 11 for more detailed information
Effects: See Section 11 for more detailed information

4.3 Indication of immediate medical attention and special treatment needed

Treatment Symptomatic treatment (decontamination, vital functions).

5. Fire fighting measures

5.1 Extinguishing media:

Suitable extinguishing media: Water Spray, Foam Unsuitable extinguishing media: ABC powder

5.2 Special hazards arising from the substance or mixture

Specific Hazards during fire fighting: In case of fire, the following can be released:

Hydrogen chloride (HCI) Nitrogen oxides (NOx)

5.3 Advice for fire-fighters

Special protective equipment Do not inhale explosion gases or combustion gases.

Wear fully protective suit.

Further Information: Cool endangered receptacles with water spray

Collect contaminated fire extinguishing water separately.

6. Accidental release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal Precautions:

Use personal protective equipment. Keep people away from and upwind of

spill. Provide adequate ventilation. Avoid raising dust...

6.2 Environmental precautions

Environmental precautions: Avoid release to the environment

Do not allow to enter public sewers and watercourses.

Inform appropriate authorities in case of seepage into water course or

sewage system.

6.3 Methods and materials for containment and cleaning up

Methods and materials for Collect as much as possible in clean container for re-use or disposal. Do not

containment and cleaning up: absorb spillage in sawdust or other combustible material.

Further Information: Dispose of contaminated material as waste according to item 13.

6.4 Reference to other sections See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment

See Section 13 for disposal information

7. Handling and storage

7.1 Precautions for safe handling

Strong oxidising agent. DO NOT MIX WITH OTHER CHEMICALS. Mix only with

Advice on safe handling: water. Never add water to product. Always add product to water. Use clean dry

dispensing equipment. Avoid contact with skin and eyes

Keep away from food, drink and animal feeding stuffs. Smoking, eating and drinking

Hygiene measures: should be prohibited in the application area. Wash hands before breaks and at the end

of the work day. Take off all contaminated clothing immediately. Provide adequate

ventilation.

7. Handling and storage

7.2 Conditions for safe storage, including any incompatibilities.

Storage: Keep this product in original, sealed container when not in use. Store in a cool, dry, well-

ventilated area.

Fire and explosion: Substance/product is oxidizing when dry.

Keep respiratory protective device available.

Further information: Do not seal receptacle gas tight. Sore only in original containers.

Storage Temperature: 5 °C up to 35 °C.

Common storage:

Do not store together with reducing agents, heavy-metal compounds, acids and alkalis.

Store away from flammable substances.

7.3 Specific end uses

Specific use(s) No information is available.

8. Exposure control/personal protection

8.1 Control parameters

Regulatory List: EH40 (8 hour TWA) EH40 (15 min TWA)

Value: 1.5 mg/m³ 2.9 mg/m³

8.2 Exposure controls

Engineering measures Fume cupboard required when vapours/aerosol are generated.

Personal protective equipment

Respiratory protection If vapours or aerosols occur wear suitable respiratory device.

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Hand protection Protective Gloves

The glove material has to be impermeable to the product/the substance/preparation.

Material: Nitrile rubber, NBR

Thickness: ≥ 0.6 mm Breakthrough: ≥ 8 h

Eye protection Tightly fitting safety goggles.

Skin and body protection Plastic apron, sleeves, boots-if handling large quantities

Environmental exposure controls

General room ventilation plus local exhaust should be used to maintain exposure below

General advice: TLV. Eyewash and emergency shower facilities recommended. Remove and wash

contaminated clothing before reuse.

Local authorities should be advised if significant spillages cannot be contained

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form: Solid
Colour: Yellowish
Odour: Characteristic
Odour Threshold: No information

pH @ 20°C: (1 g/l) at 20°C: 3.5
Melting Point 158 - 162°C
Boiling point/boiling range: Not determined
Flash point: Not applicable

Flammability (solid, gas) Contact with combustible material may cause fire.

Danger of explosion Product does not present an explosion hazard.

Density @ 20°C: 1.8 - 2.0 g/cm³

(Continued on Page 5)

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Water solubility: Soluble
Organic Solvents 0.00%
VOC (EC) 0.00%
Solids content 100%

Oxidising properties: Oxidizer - may intensify fire

9.2 Other Information No further information

10. Stability and reactivity

10.1 Reactivity

Reactivity Stable under recommended transport or storage conditions

10.2 Chemical stability

Chemical stability No information available

10.3 Possibility of hazardous reactions

Hazardous reactions: Contact with acids releases toxic gases.

10.4 Conditions to avoid

Conditions to avoid

Damp or slightly wet conditions may slowly liberate hazardous gases. (will gradually

degenerate to Nitrogen Trichloride).

10.5 Incompatible materials

Materials to avoid Avoid contact with Acids, metal, metal oxides, alloys, inflammable substances.

10.6 Hazardous decomposition products

Haz. Decomp. products: Hydrogen chloride (HCI), Chlorine, Hydrochloric Acid and Bromine

11. Toxilogical Information

11.1 Information on toxilogical effects

Component: Bromochloro-5-5, dimethylimidazolidine-2,4-dione **CAS No:** 32718-18-6

Route	Species	Test	Value	Units
Oral	Rat	LD50	578	mg/kg

Primary Irritant effect:

On the skin: Caustic effect on skin and mucous membranes.

On the eyes: Strong caustic effect.

Sensitization: May cause sensitizing by skin contact.

Carcinogenic There is no evidence that this substance has any carcinogenic properties.

Mutagenic No information available Teratogenicity No information available

Further information No further information available

12. Ecological Information

12.1 Toxicity Acute Toxicity

Test	Species	Value	Units	Time
EC50	Onchorhynus mykiss	0.65	mg/l	96 hrs
LC50	Daphnia Magna	0.87	mg/l	48 hrs

12.2 Persistence and degradability

Persistence no data available

Biogradability The product is decomposed by hydrolysis in water or moist air.

12.3 Bioaccumlative potential

Due to the distribution coefficient n-octanol/water an accumulation in organisms is not Bioaccumlative potential

expected.

12.4 Mobility in soil

Mobility in soil No information available

12.5 Results of PBT and PvB assessment

PBT and PvB assessment: Not applicable

12.6 Other adverse effects

Remarks: Water hazard Class 2 (German regulation)(Self assessment):hazardous for water

Do not allow product to reach ground water, water course or sewage system

Danger to drinking water if even small quantities leak into the ground.

13. Disposal Considerations

13.1 Waste treatment methods

Disposal together with normal waste is not allowed. Special disposal is required

Product: according to local regulations. Do not let product enter drains. Contact waste disposal

services.

Empty contaminated packaging thoroughly. They can be re-cycled after thorough and

Contaminated packaging: proper cleaning. Packaging that cannot be cleaned is to be disposed of in the same

manner as the product

14. Transport Information

14.1 UN Number 3085

3085 OXIDIZING SOLID, CORROSIVE, N.O.S. (Bromochloro-5,5-dimethyl 14.2 UN proper shipping name

idine-2,4dione) ENVIRONMENTALLY HAZARDOUS

14.3 Transport hazard class(es)

5.1 Class Classification Code OC2 5.1 + 8Hazard label Transport Category 3 Tunnel Code Ε

F-A,S-Q EMS Number: Symbol Fish & Tree LQ 1 kg

14.4 Packaging Group II

14.5 Environmental hazards

Environmentally Hazardous Yes Marine Pollutant Yes

14.6 Special precautions for user Not applicable

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

N/a

15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for this substance or mixture. Information about limitation of use

Employment restrictions concerning juveniles must be observed.

Employment restrictions concerning pregnant and lactating women must be observed

15.2 Chemical Safety Assessment

A Chemical Safety Assessment has not been carried out.

16. Other information

Full text of H-statements referred to under sections 2 and 3

H272 May intensify fire; oxidiser

H314 Causes severe skin burns and eye damage

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H302 Harmful if swallowed.

H317 May cause an allergic skin reaction. EUH031 Contact with acid liberates toxic gas

Further information

Restricted to professional users. Attention - Avoid exposure- obtain special instructions before use

This information is believed to be accurate and represents the best information currently available to us. However, we make no warranty or merchantability, or fitness for any particular use, or any other warranty, express or implied, with respect to this information, and we assume no liability resulting from use of this information Users should make their own investigations to determine the suitability of the information for their particular needs and uses.

Rev 6

Indicates updated section.