

#### **Bromine Pods**

# 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) 3712 229084 (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

Acute Tox. 4 \* H302 Skin Corr. 1B H314 Skin Sens.1 H317 Eye Dam.1 H318 Aquatic Acute 1 H400

EUH031

For the full text of the H statements 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 physicochemical information
Potential environmental effects: See section 12 for environmental information

# 2.2 Label elements

Hazard symbols:

Hazard pictograms:

# Labelling according to Regulation (EC) No 1272/2008

GHS05: Corrosion
GHS07: Warning
GHS09: Environmental

Oxidising

Signal word: Danger

Hazard statements: H272 May intensify fire; oxidiser

GHS03:

H302 May cause respiratory irritation

H314 Causes severe skin burns and eye damage

H317 May cause an allergic skin reaction

H318 Causes serious eye damage

H410 Very toxic to aquatic life with long lasting effects.

#### 2. Hazard Identification

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

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

water / shower

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present

P305 + P351 + P338 and easy to do so. Continue rinsing.

P310 Immediately call a POISON CENTER or doctor/physician

P405 Store locked up.

P501 Dispose of contents/container to waste in accordance with national regulations.

Additional Information: EUH031 Contact with acid liberates toxic gas

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

CAS No EC No % Hazard Statements

32718-18-6 251-171-5 98% Acute Tox. 4;H302 : Skin Corr. 1B; H314 : Skin Sens.1;H317: Eye Dam.1;

H318: Aquatic Acute 1; H400: H272: EUH031

# 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

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

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 immediately.

#### 4.2 Most important symptoms and effects, both acute and delayed

Symptoms & 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 media: Water Spray, Foam Unsuitablemedia: ABC powder

5.2 Special hazards arising from the substance or mixture

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

Hydrogen chloride (HCl) Nitrogen oxides (NOx)

5.3 Advice for fire-fighters

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

Cleaning up: Collect as much as possible in clean container for re-use or disposal. 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

Safe handling: Extractor required at the object.

Any unavoidabledeposit of dust must be regularly removed.

Thorough dedusting.

Information about fire - and explosion protection: Keep respiratory protective device available.

Keep away from food, drink and animal feeding stuffs. Smoking, eating and drinking should be  ${\sf S}$ 

Hygiene measures: 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.

#### 7.2 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. Store 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/m<sup>3</sup> 2.9 mg/m<sup>3</sup>

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:  $\geq$  0.6 mm Breakthrough:  $\geq$  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 TLV.

General advice: 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
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

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

to Nitrogen Trichloride).

10.5 Incompatible materials

Conditions to avoid

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

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

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. Ecological Information

#### 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

Product:

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

Contaminated packaging: 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 idine-

2,4dione) ENVIRONMENTALLY HAZARDOUS

N/a

14.3 Transport hazard class(es)

Class 5.1 Classification Code OC2 Hazard label 5.1 + 8**Transport Category** 3 Tunnel Code Ε EMS Number: F-A,S-Q Symbol Fish & Tree LQ 1 kg

14.4 Packaging Group

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

## 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.

Trade Name: **Bromine Tablets** 

## 16. Other information

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

H272	May intensify fire; oxidiser
H302	May cause respiratory irritation
H314	Causes severe skin burns and eye damage
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H410	Very toxic to aquatic life.

Contact with acid liberates toxic gas Warning! Do not use together with other products. May release dangerous gases (chlorine)

#### **Further information**

EUH031

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

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Indicates updated section.