

Legal Disclaimer

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1. Section 1: Identification of the substance/mixture and the company/undertaking.

1.1 Product identifier.

Product name: Bromine Tablets
Product code: 20 86 558 050 – Swimmer Bromine Tablets 5kg
20 86 558 010 – Essentials Spa Bromine Tablets 1kg

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

For disinfection of pool and spa water

1.3 Details of the supplier of the safety data sheet.

Name of supplier: Golden Coast Ltd
Address of supplier: Fishleigh Road, Roundswell Commercial Park West, Barnstaple, Devon. EX31 3UA
Phone number: 01271 378 100
Responsible person: Jamie Adams
Email: swimmer@goldenc.com
Web address: www.goldenc.com

1.4 Emergency phone number: 01271 378 100 (office hours)

2. Section 2: Hazards 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
Sin 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 physiochemical information
Potential environmental effects: See section 12 for environmental information

2.2 Label elements.

Labelling according to Regulation (EC) 1272/2008

Hazard symbols:



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Hazard pictograms:	GHS03: Oxidising GHS05: Corrosion GHS07: Warning GHS09: Environmental
Signal word:	Danger
Hazard Statements:	H272: May intensify fire; oxidiser H302: May cause respiratory irritation H314: Causes severe skin burns and eye damage H317: May cause an allergic reaction H318: Causes serious eye damage H400: Very toxic to aquatic life EUH031: Contact with acid liberates toxic gas EUH026: 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 the 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. P501: Dispose of contents/container to waste in accordance with national regulations.

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

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3. Section 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. Section 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
In case of skin contact:	At first remove dust mechanically. Drench the skin with plenty of water. Remove contaminated clothing and wash be 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 immediately.

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

Symptoms and effects: See section 11 for more detailed information

4.3 Indication of any immediate medical attention and special treatment needed.

Treatment: Symptomatic treatments (decontamination, vital functions).

5. Section 5: Firefighting 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.

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Specific hazards during firefighting:

In case of fire, the following can be released:

Hydrogen chloride (HCl) Nitrogen oxides (NOx)

5.3 Advice for firefighters.

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. Section 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 or watercourses.

Inform appropriate authorities in case of seepage into water course or sewage system.

6.3 Methods and material for containment and cleaning up.

Cleaning up:

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

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. Section 7: Handling and storage.**7.1 Precautions for safe handling.**

Advice on safe handling:

Strong oxidising agent. DO NOT MIX WITH OTHER CHEMICALS. Mix only with water. Never add water to product. Always add product to water. Use clean dry dispensing equipment. Avoid contact with skin and eyes.

Hygiene measures:

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

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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 use(s)

Specific use(s):	No information is available.
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8. Section 8: Exposure controls/personal protection.

8.1 Control parameters.

Regulatory List:	EH40 (8 hour TWA)	EH40(15 min TWA)
Value:	1.5 mg/m ³	2.9 mg/m ³

8.2 Exposure controls.

Engineering measures	Fume cupboard required when vapours/aerosol are generated
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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: ≥0.6mm
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 advice: General room ventilation plus local exhaust should be used to maintain exposure below TLV. Eyewash and emergency shower facilities recommended. Remove and wash contaminated clothing before reuse.

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Local authorities should be advised if significant spillages cannot be contained.

9. Section 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/cm ³
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. Section 10: Stability and reactivity.**10.1 Reactivity.**

Reactivity: Stable under recommended transport and 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 (HCl), Chlorine, Hydrochloric Acid and Bromine

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11. Section 11: Toxicological information.

11.1 Information on toxicological effects.

Component: Bromochloro-5-5, diethylimidazolidine-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 not evidence that this substance had any carcinogenic properties.
 Mutagenic: No information available.
 Teratogenicity: No information available.

Further information:

No further information available.

12. Section 12: Ecological information.

12.1 Toxicity.

Acute toxicity

Component: Bromochloro-5-5, diethylimidazolidine-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

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

12.3 Bioaccumulation potential.

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

12.4 Mobility in soil.

Mobility in soil No information available

12.5 Results of PBT and vPvB 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

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system.

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

13. Section 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.

Contaminated packaging:

Empty contaminated packaging thoroughly. They can be re-cycled after thorough and proper cleaning. Packaging that cannot be cleaned is to be disposed of in the same manner as the product.

14. Section 14: Transport information.**14.1 UN number.**

3085

14.2 UN proper shipping name.

3085 OXIDIZING SOLID, CORROSIVE, N.O.S. (Bromochlorl-5,5-dimethyl idine-2,4dione) ENVIRONMENTALLY HAZARDOUS

14.3 Transport hazard class(es).

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

14.4 Packing 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

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15. Section 15: Regulatory information.**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture.**

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. Section 16: Other information.

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

H272: May intensify fire; oxidizer

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

H400: 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)

Further information

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

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Note:

This data sheet does not constitute a user's assessment of workplace risk as required by HSW act, COSHH, management of health and safety at work regulations, or other health and safety legislation.

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