

**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 Granules  
Product code: 2086557010 Essentials Spa Bromine Granules 1kg  
2086000220 Essentials Spa Starter Pack (Bromine)

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

Uses: For disinfection of pool and spa water  
Restrictions: At this time we do not yet have information on identified restrictions

**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  
Web : [www.goldenc.com](http://www.goldenc.com)  
Phone number: 01271 378 100  
Responsible person: Jamie Adams  
Email: [swimmer@goldenc.com](mailto:swimmer@goldenc.com)

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

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**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
Eye Irrit. 2	H319
STOT SE 3	H335
STOT SE 3	H400
Aquatic Acute 1	H410
Aquatic Chronic 1	

For the full text of 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 toxicological information  
Potential environmental effects: See section 12 for toxicological information

**2.2 Label elements.**

Labelling according to Regulation (EC) No 1272/2008

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Hazard symbols:

Signal word:

Warning

Hazard statements:

H302 Harmful if swallowed  
H319 Causes serious eye irritation  
H335 May cause respiratory irritation  
H400 Very toxic to aquatic life  
H410 Very toxic to aquatic life with long lasting effects  
EUH031 Contact with acid liberates toxic gas

Warning!

Do not use together with other products. May release dangerous gases (Chlorine)

Precautionary statements:

P102: Keep out of reach of children  
P273: Avoid release to the environment  
P402: Store in a dry place  
P405: Store locked up  
P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing.

**Hazardous components which must be listed on the label**

Sodium Dichloroisocyanurate Dihydrate

**2.3 Other hazards.**

No other information is available

**3. Section 3: Composition/information on ingredients.****3.2 Mixtures.**

Chemical nature:	Granules			
Chemical Name	Index-No.	CAS-No.	EC-No.	
Sodium Dichloroisocyanurate Dihydrate	613-030-01-7	51580-86-0	H302, H319, H335, H400, H410	220-767-7
Sodium Bromide	231-599-9	7647-15-6		
See section 16				

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**4. Section 4: First aid measures.****4.1 Description of first aid measures.**

General Advice:

Take off all contaminated clothing immediately  
Move to fresh air. Remove contaminated clothing and loosen remaining clothing. Keep at rest until fully recovered. If breathing is laboured and patient cyanotic (blue), ensure airways are clear and have qualified person give oxygen through a facemask. If breathing has stopped apply artificial respiration at once. In event of cardiac arrest, apply external cardiac massage. Seek medical advice. In severe cases pulmonary oedema can be delayed by up to 48 hours.

If inhaled:

Drench the skin with plenty of water. Remove 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. Consult an eye specialist immediately. Go to an ophthalmic hospital if necessary.

In case of skin contact:

In case of eye contact:

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.**

Can cause damage to the eyes  
May cause irritation

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

Treat Symptomatically

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**5. Section 5: Firefighting measures.****5.1 Extinguishing media.**

Suitable media: Water spray or fog (large quantities available)

**5.2 Special hazards arising from the substance or mixture.**

Specific Hazards: Gives off irritating or toxic fumes (or gases) in a fire  
Decomposition products may include nitrogen and carbon oxides  
Decomposition products include oxygen and chlorine

**5.3 Advice for firefighters.**

Protective equipment Fire-fighters should wear full protective clothing and self-contained breathing apparatus (SCBA). Thoroughly decontaminate fire-fighting equipment including all fire fighting wearing apparel after the incident.

Further Information: Collect contaminated fire extinguishing water separately

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**6. Section 6: Accidental release measures.****6.1 Personal precautions, protective equipment and emergency procedures.**

Personal Precautions: Use personal protective equipment. Provide adequate ventilation.  
For personal protection see section 8

**6.2 Environmental precautions.**

Environmental precautions: Do not flush into surface water or sanitary sewer system  
Avoid subsoil penetration  
If the product contaminates rivers and lakes or drains inform respective authorities. Local authorities should be advised if significant spillages cannot be contained

**6.3 Methods and material for containment and cleaning up.**

Clean-up procedures: Sweep or shovel-up spillage and remove to a safe place.  
Prevent formation of dust. Do not absorb spillage in sawdust or other combustible material. Neutralise with Soda ash. Dilute with a large volume of water. Flush spill area with copious amounts of water. Ventilate the area and wash spill site after material pick-up is complete.

**6.4 Reference to other sections.**

For personal protection see section 8

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**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 the skin and the 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.

**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 Protection:

Normal measures for preventive fire protection

Further information:

Keep away from children

Common Storage:

Keep away from food, drink and animal feeding stuffs. Keep away from combustible material.

**7.3 Specific end 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)
Valve:	1.5mg/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

Use respiratory protection for chlorine and dust inhalation protection

## Hand protection

The glove material has to be impermeable to the product / the substance / preparation. Take note of the information given by the producer concerning permeability, break through times, and of special working conditions (mechanical strain, duration of contact)

Protective gloves should be replaced at first sign of wear

Due to missing tests no recommendation to the glove material can be given

## 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.

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

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**9. Section 9: Physical and chemical properties.****9.1 Information on basic physical and chemical properties.**

Form:	Granules
Colour:	Whitish
Odour:	Characteristic Chlorine
pH @ 20°C	7.0 – 10% (aqueous solution)
Melting point:	Not Known
Initial boiling point and boiling range:	Not Applicable
Flash point:	Not Known
Evaporation rate:	Not Known
Vapour pressure:	Not Known
Vapour density:	Not Known
Specific gravity:	Not Known
Water solubility:	260 gm/litre @ 25°C
Partition coefficient: n-octanol/water:	Not Known
Non-explosive	
Contact with other material may cause fire	
Viscosity:	Not Applicable

**9.2 Other Information**

No further information

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**10. Section 10: Stability and reactivity.****10.1 Reactivity.**

Reactivity

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

**10.2 Chemical stability.**

Chemical stability

No information available

**10.3 Possibility of hazardous reactions.**Hazardous reactions:  
with water

Gives off hydrogen by reaction with metals. Reacts exothermic

**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 water on concentrated material in the container. Avoid contact with easily oxidisable material such as organic compounds, reducing agents, Nitrogen containing compounds, Sodium or Calcium hypochlorite, other oxidisers, acids and alkalis.

**10.6 Hazardous decomposition products.**

Haz. Decomp Products

Decomposes above 240°C forming chlorine, nitrogen, trichloride, nitrogen oxides, carbon dioxide, cyanates and carbon monoxides

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**11. Section 11: Toxicological information.****11.1 Information on toxicological effects.**

LD50 (oral, rat) &gt;1400 mg/kg

LDLo (human) 3570 mg/kg

Inhalation:

May cause respiratory tract irritation, shortness of breath, headache and delayed pulmonary oedema

Contact with skin:

Causes irritation – In cases of severe exposure, dermatitis may develop

Contact with eyes:

Causes severe irritation – Can cause damage to the eyes

Carcinogenicity:

No information available

Teratogenicity:

No information available

Mutagenicity:

No information available





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## 14. Section 14: Transport information.

### 14.1 UN number.

UN3077

### 14.2 UN proper shipping name.

3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID N.O.S (SODIUM DICHLOROISOCYANURATE DIHYDRATE)



### 14.3 Transport hazard class(es).

Class	9
Classification Code	M7
Hazard Label	90
Transport Category	3
LQ	5kg

### 14.4 Packing group.

III

### 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

The transportation of this product, containing sodium dichloroisocyanurate dehydrate, is not regulated by IMDG (sea), ADR (road), RIL (rail), ICAO/IATA (air, or USDOT). It should not be confused with Dichloroisocyanuric acid salts, UN2465, which is a Dangerous Goods (Hazardous Material)

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

This Safety Data Sheet is provided in compliance with REACH Regulation (EC) No 1907/2006

**15.2 Chemical safety assessment.**

No information available

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**16. Section 16: Other information.**

H302 Harmful if swallowed

H319 Causes serious eye irritation

H335 May cause respiratory irritation

H400 Very toxic to aquatic life

H410 Very toxic to aquatic life with long lasting effects

EUH031 Contact with acid liberates toxic gas

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.

**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.

Further information relating to the pictograms, phrases, statements or acronyms contained within this Safety Data Sheet is available for download. Please refer to [www.goldenc.com/resources/data-sheets](http://www.goldenc.com/resources/data-sheets)