

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

- **Trade Name:** Bromine Granules
- **Other names**
- **Intended use of chemical** For disinfection of pool and spa water
- **Manufacturer/Supplier** Complete Pool Controls Ltd, Unit 2, The Park, Stoke Orchard, Bishops Cleeve, Gloucestershire, GL52 7RS.  
Tel: +44 (0) 8712 229081  
Fax: +44 (0) 8712 229083

**2. Composition/information on ingredients**

- **Chemical characterization:** Mixture of substances listed below with nonhazardous additions
- **CAS No. Description** 51580 - 86 - 0 Dichloroisocyanurate Dihydrate,
- **CAS No. Description** 7647-15 - 6 Sodium Bromide

**3. Hazard Identification**• **Hazard description**

Harmful



Dangerous for the environment

• **Hazard information concerning particular hazards for human and the environment**

- |        |  |
|--------|--|
| R22    | Harmful if swallowed.  |
| R31    | Contact with acids liberates toxic gas.  |
| R36/37 | Irritating to eyes and respiratory system.   |
| R50/53 | Very toxic to aquatic organism may cause long-term effects in the aquatic environment. |

**4. First Aid measures**

- **General Information** Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
- **After inhalation:** Remove from exposure, rest and keep warm. In severe cases, or if recovery is not rapid, or complete, seek medical attention.  
Wash thoroughly with plenty of water. Remove contaminated clothing and wash before reuse. If large area of skin is damaged or if irritation persists seek medical attention.
- **After skin contact:** Flush immediately with water for at least 15 minutes. If irritation persists seek medical attention.
- **After eye contact:** Flush immediately with water for at least 15 minutes. If irritation persists seek medical attention.
- **After Ingestion:** Wash out mouth with water. **DO NOT INDUCE VOMITING.** If patient is conscious, give water to drink. Seek immediate medical attention.

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**5. Fire fighting measures**

- **Special extinguishing media:** Water, CO<sub>2</sub> dry chemical powder, or appropriate foam.
- **Special exposure hazards in fire:** The product is not flammable. Thermal decomposition occurs at above 240oC. This can be extinguished by flooding with water or by isolating the decomposing material to open air and allowing it to be consumed.
- **Special protective equipment:** Wear self-contained breathing apparatus and protective clothing to prevent contact with skin or eyes.

**6. Accidental release Measures**

- **Personal Protection** Use appropriate personal protective equipment as detailed in section 8.
- **Methods for cleaning:** Isolate area and warn others. DO NOT introduce water or other liquids to the spillage site. Sweep up and deposit in dry plastic sacks or drums. DO NOT put into bins or skips. Dispose of in accordance with appropriate local regulations.

**7. Handling and storage**

- **Personal Protection** Do not breathe dust. Use only in well-ventilated areas. Do not get in eyes, on skin, on clothing. Avoid prolonged or repeated exposure.
- **Storage** Keep container tightly sealed. Store in cool dry conditions

**8. Exposure control/personal protection**

- **Exposure control limits and source:**

	8hr TWA		15min STEL		Authority
	ppm	mg/m3	ppm	mg/m3	
51580 - 86 -0 Dichloroisocyanurate Dihydrate,		0.7		0.02	EH40
- **Hand Protection** Wear suitable chemical resistant gloves when handling this product. Disposable nitrile gloves are suitable providing regular changes of gloves are made.
- **Eye Protection** Wear appropriate tightly sealed safety goggles
- **Respiratory Protection** 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.
- **Skin Protection** Avoid prolonged contact with skin by wearing appropriate clothing.

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### 9. Physical and chemical properties

• <b>Appearance at 20oC</b>	White crystalline solid, granules
• <b>Odour</b>	Chlorine
• <b>pH (conc)</b>	10
• <b>Boiling Point</b>	Undetermined
• <b>Melting Point</b>	Undetermined
• <b>Flash Point</b>	N/A
• <b>Solubility in water</b>	Partly soluble

### 10. Stability and reactivity

• <b>Conditions to avoid</b>	No decomposition if used and stored according to specifications.
• <b>Materials to avoid</b>	Strong acids and oxidising agents
• <b>Dangerous reactions</b>	Reacts with acids to produce free chlorine and bromine.
• <b>Hazardous decomposition products</b>	Bromine and chlorine

### 11. Toxicological Information

• <b>Skin</b>	No irritant effect
• <b>Eyes</b>	Irritating effect
• <b>Sensitization</b>	No sensitizing effects known
• <b>Toxicity</b>	51580 - 86 - 0 Dichloroisocyanurate Dihydrate, Oral LD50 (Rat) 1400 mg/kg
	7647-15 - 6 Sodium Bromide Oral LD50 (Rat) 3500 mg/kg

### 12. Ecological Information

• <b>Mobility</b>	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.
• <b>Persistence and degradability</b>	Very toxic for fish

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### 13. Disposal Considerations

- **Substance**

Must not be disposed of together with household garbage. Do not allow the product to reach the sewage system. Contact waste processors for recycling information.  
Used, degraded or contaminated product may be classified as hazardous waste. Anyone classifying hazardous waste and determining its fate must be qualified in accordance with state and international regulation.
- **Container**

As substance

### 14. Transport Information

- **Maritime Transport IMDG**
- **Marine Pollutant**

No
- **Transport / Additional Information**

The transportation of this product, containing sodium dichloroisocyanurate dihydrate, 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).

### 15. Regulatory information

- **Product Name**

Bromine Granules
- **Symbol**

Xn; N
- **Indications of danger**

Harmful: Dangerous for the Environment
- **Risk phrases**

R22	Harmful if swallowed.
R31	Contact with acids liberates toxic gas.
R36/37	Irritating to eyes and respiratory system.
R50/53	Very toxic to aquatic organism may cause long-term effects in the aquatic environment.
- **Safety phrases**

S1/2	Keep locked up and out of reach of children
S25	Avoid contact with eyes
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
S36/37/39	Wear suitable protective clothing/gloves and eye/face protection
S46	If swallowed, seek medical advice immediately and show this container or label.

### 16. Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.