



Safety Data Sheet

Bio Shock Rapid

BioGuard

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1 IDENTIFICATION OF CHEMICAL.

Product Name: Bio shock Rapid
Chemical name: Calcium Hypochlorite
Other names: Granular Shock, Shock granules

2 COMPOSITION.

Ingredients:	Wt%	CAS No.	EINECS No	EEC No.	Phrases
Calcium Hypochlorite	100	7778-5-3	017-012-00-7	231-908-7	R8,22,31,34,50

3 HAZARD IDENTIFICATION

Oxidant: Contact with combustible material may cause fire. Contact with acids liberates toxic gas. (Chlorine).
Corrosive: Causes burns. Causes skin and eye damage. Avoid contact with eyes, skin or clothing. Harmful if swallowed. May be irritating to nose and throat. Avoid breathing dust.
Danger: Dangerous for the environment.

4 FIRST AID MEASURES.

Skin Contact: If contact with skin occurs, wash off excess chemical with soap and flush with cool water for at least 15 minutes. If skin irritation persists, seek immediate medical attention.

Eye contact: Immediately flush contaminated eyes with water for at least 20 minutes, holding eyelid(s) open. Seek immediate medical attention.

Ingestion: If swallowed, drink large amounts of water. **DO NOT INDUCE VOMITING. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.** Seek medical attention immediately.

Inhalation: If inhaled, remove individual to fresh air. If breathing is difficult, have a trained person administer oxygen. Seek medical attention immediately.

Note: When seeking medical attention, always show the product label.

5 FIRE FIGHTING MEASURES.

- Flammability:** May ignite flammable materials
- Suitable extinguishers:** Water fog. **DO NOT USE DRY POWDER OR FOAM.**
- Hazardous combustion products are:** Liberates oxygen and chlorine
- Fire fighting procedures:** Wear self contained breathing apparatus. (SCBA)
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6 ACCIDENTAL RELEASE MEASURES.

Use appropriate personal protective equipment as detailed in section 8.

Spillages and Leaks:

Ensure adequate ventilation. Remove sources of ignition. Contain the spillage. Sweep up the spill and place in clean, dry plastic containers including any contaminated soil. Dispose of product in accordance with relevant local and national waste disposal legislation.

7 HANDLING AND STORAGE.

- Handling:** Open drums carefully. (pressure in drums) **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.
- Storage:** Keep this product in original, sealed container when not in use. Store in a cool, dry, well-ventilated area. Keep away from heat and direct sunlight. Keep this product and all other chemicals out of reach of children.
- Avoid contact with:** Other swimming pool/spa chemicals in their concentrated forms.
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8 EXPOSURE CONTROLS / PERSONAL PROTECTION.

Exposure Limits:	8hr TWA		15min STEL		Authority
	ppm	mg/m ³	ppm	mg/m ³	
Chlorine	--	1	--	2	EH40

General: General room ventilation plus local exhaust should be used to minimise exposure. Remove and wash contaminated clothing before reuse.

- PPE**
- Respiratory:** Where dust emissions are possible, respiratory protection must be used.
- Skin:** Wear rubber gloves when handling this product. Avoid contact with skin.
- Eyes:** Wear goggles when handling this product.
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9 PHYSICAL AND CHEMICAL PROPERTIES.

Physical State:	Solid
Odour:	Chlorine
Appearance:	Granules
Colour:	White
Solubility in Water:	217g/l @ 27°C
Relative density:	0.8 gm/cm ³ (granules) 1.9 gm/cm ³ (tablets)
pH:	10.5 – 11.5 (1% soln)

10 STABILITY AND REACTIVITY.

Conditions to avoid:	High temperature. Poor ventilation. Contamination, Moisture and high humidity.
Stability:	This product is stable under normal conditions but decomposes at 180 °C. Contact with combustible material may cause fire.
Decomposition products:	Oxygen and Chlorine
Incompatible materials:	Other swimming pool/spa chemicals in their concentrated forms. Acids, ammonia, reducing agents, organic materials.

11 TOXICOLOGICAL INFORMATION.

LD50/Inhalation/1HR/Rat	= 3.5 mg/l
LD50/Dermal/Rabbit	= 1000 mg/kg

This product is corrosive to skin, eyes and gastrointestinal tract.
This product is not listed as a carcinogen.

12 ECOLOGICAL INFORMATION.

This product may be toxic to fish and aquatic organisms.
LC50 – 0.0088 mg/l (Bluegill)
Keep product from entering waterways and watersheds.

13 DISPOSAL CONSIDERATIONS.

Disposal Method:	DO NOT put product, spilled product or filled or partially filled containers into the waste. Contact with incompatible materials could cause a reaction or fire. Disposal of unused, uncontaminated product is regulated according to local and national regulations.
Empty Containers:	DO NOT re-use container. Rinse thoroughly before discarding.

14 TRANSPORT INFORMATION.

UN No:	2880
Primary Hazard:	Oxidising substance
Packing Group:	II
Hazard ID No:	50
Class:	5.1
EAC:	2W

15 REGULATORY INFORMATION.

Product name: Bioshock Rapid
Hazard symbol: Oxidiser/Corrosive/Dangerous for the environment

Risk Phrases:

R8	Contact with combustible material may cause fire
R22	Harmful if swallowed
R31	Contact with acids liberates toxic gas.
R34	Causes burns.
R50	Very toxic to aquatic organisms.

Safety Phrases:

S1/2	Keep locked up and out of reach of children
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical attention.
S36/37/39	Wear suitable protective clothing, gloves and eye/face protection.
S45	In case of accident or if you feel unwell seek medical advice immediately (Show the label where possible)
S61	Avoid release to the environment. Refer to special instructions/Safety Data Sheet.

16 OTHER INFORMATION

Recommended uses and restrictions: No further information.

Further information sources: No further information.

Sources of key data used to compile Safety Data Sheet.

Approved supply list. Approved carriage list, EH40, ACIGH tables.

The data in this Safety Data Sheet has been supplied as required by the Chemicals (Hazard Identification and Packaging) Regulations 1998, as amended, for the purpose of protecting the health and safety of industrial users who are deemed capable of understanding and acting on the information provided. Please ensure that it is passed to the appropriate person(s) in your company, who are capable of acting on the information.

This data sheet does not constitute a users assessment of the workplace risk as required by the Health and Safety at Work Act, COSHH, Management of Health and Safety at Work or other health and safety legislation.
