

Multifunctional Chlorine Granules

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

1.1 Product Identifier Multifunctional Chlorine Granules

1.2 Relevant Identified uses and restriction of the substance or mixture

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) 3712 229084

Fax: +44 (0) 8712 229083

E-mail: sales@cpc-chemicals.co.uk

1.4 Emergency Telephone

Tel: +44 (0) 8712 229081 (office hours) +44 (0) 1242 300271 (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
Eye Irrit. 2	H319
STOT SE 3	H335
Aquatic Acute 1	H410

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

Labelling according to Regulation (EC) No 1272/2008

Hazard symbols:



Signal word:

Danger

Hazard statements:

H302	Harmful if swallowed.
H319	Causes serious eye irritation
H410:	Very toxic to aquatic life with long lasting effects
H335+H336:	May cause respiratory irritation. May cause drowsiness or dizziness
EUH031	Contact with acids liberates toxic gas.
EUH206	Warning! Do not use together with other products. May release dangerous gases (chlorine).

Use biocides safely. Always read the label and product information before use.

Precautionary statements:

P102	Keep out of reach of children
P402	Store in a dry place.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P501	Dispose of contents/container in accordance with national regulations.

Hazardous components which must be listed on the label

Sodium Dichlor, Aluminium Sulphate and Copper Sulphate

2.3 Other Hazards

No other information is available.

3. Composition/information on ingredients

3.2 Mixture

sodium dichloroisocyanurate, dihydrate

EINECS	CAS	PBT / WEL	CLP Classification	Percent
220-767-7	51580-86-0	-	Met. Corr. 1: H290; Skin Sens. 1A:H317; Eye Dam. 1: H318; Aquatic Chronic 2: H411	50 - 100%

aluminium sulphate

EINECS	CAS	PBT / WEL	CLP Classification	Percent
233-135-0	10043-01-3	-	Eye Dam. 1: H318	2.5 - 10%

copper sulphate pentahydrate

EINECS	CAS	PBT / WEL	CLP Classification	Percent
-	7758-99-8	-	Acute Tox 4. H302; Eye Irrit. H319; Skin Irrit. 2: H315; Aquatic Acute 1: H400; Aquatic Chronic 1: H410	≤2.5%

Contains: Mixture of listed substances with non hazardous additions.

4. First Aid measures

4.1 Description of first aid measures

General Advice:	Take off all contaminated clothing immediately.
If inhaled:	Move to fresh air. Remove contaminated clothing and loosen remaining clothing. Seek immediate medical advice. In case of unconsciousness place patient stably in side position for transportation
In case of skin contact:	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
In case of eye contact:	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.
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

Symptom & effects: No further information available.

4.3 Indication of immediate medical attention and special treatment needed

Treatment Treat Symptomatically.

5. Fire fighting measures

5.1 Extinguishing media:

Suitable media: Use fire extinguishing methods suitable to surrounding conditions.

Unsuitable media: Foam or water

5.2 Special hazards arising from the substance or mixture

Specific Hazards : In case of fire, the following can be released: Nitrogen oxides (NOx)
Hydrogen chloride (HCl)

5.3 Advice for fire-fighters

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.

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 materials for containment and cleaning up

Cleaning up Pick up mechanically. Dispose of contaminated material as waste according to item 13. Ensure adequate ventilation.

6.4 Reference to other sections

For personal protection see section 8

7. Handling and storage

7.1 Precautions for safe handling

Advice on safe handling: 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.

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. Avoid contact with the skin and eyes.

7.2 Conditions for safe storage, including any incompatibilities.

Requirements for storage areas and containers: Keep this product in original, sealed container when not in use. Store in a cool, dry, well-ventilated area.

Advice on protection against fire: Normal measures for preventive fire protection

Further information on storage: Keep away from children. Prevent seepage into the ground

Advice on common storage: Do not store together with acids

7.3 Specific end uses

Specific use(s) No information is available.

8. Exposure control/personal protection

8.1 Control parameters

	Short Term	Long Term
Sodium dichloroisocyanurate, dihydrate	0.07mg/m ³	0.02mg/m ³

8.2 Exposure controls

Engineering measures Fume cupboard required when vapours/aerosol are generated.
Refer to protective measures listed in sections 7 and 8.

Personal protective equipment

Respiratory protection In case of brief exposure or low pollution use respiratory filter device Filter AB2P2. Filter AB2P3. In case of intensive or longer exposure use self- contained respiratory protective device

8. Exposure control/personal protection**8.2 Exposure controls****Personal protective equipment**

Hand protection	Wear protective gloves. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and standard EN 374.
Eye protection	Wear safety glasses approved to standard EN 166.
Skin and body protection	Wear appropriate clothing to prevent repeated or prolonged skin contact

Environmental exposure controls Dispose of in accordance with all applicable local and national regulations.

Environmental exposure controls

General advice: Do not flush into surface water or sanitary sewer systems
 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.

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

Form:	Granular
Colour:	Whitish
Odour:	Characteristic chlorine
pH @ 20°C:	7.0 - 10% (aqueous solution)
Melting Point	Undetermined
Boiling point/boiling range:	Undetermined
Self Igniting:	>200°C
Relative vapour density:	No information available
Density @ 20°C:	Undetermined
Water solubility:	Partly soluble
Explosive properties:	Product does not present an explosion hazard
Oxidising properties:	Product is not an oxidiser

9.2 Other Information No information available

10. Stability and reactivity**10.1 Reactivity**

Reactivity No decomposition if used according to specifications

10.2 Chemical stability

Chemical stability Currently we do not have any information from our supplier about this.

10.3 Possibility of hazardous reactions

Hazardous reactions: Reacts with acids releasing chlorine. Reacts with Oxidisers

10.4 Conditions to avoid

Conditions to avoid High temperature. Poor ventilation. Contamination. Moisture/high humidity.

10.5 Incompatible materials

Materials to avoid Reacts with acids releasing chlorine.

10.6 Hazardous decomposition products

Haz. Decomp. products: Chlorine

11. Toxicological Information**11.1 Information on toxicological effects***LD/LC50 values relevant for classification:***Acute Toxicity****51580-86-0** *sodium dichloroisocyanurate, dihydrate*

Value type	Value	Species
LD50 Oral	1400 mg/kg	Rat

7758-99-8 *copper sulphate pentahydrate*

LD50 Oral	300 mg/kg	Rat
-----------	-----------	-----

Primary Irritant effect

On the skin: Powder may irritate skin after prolonged contact.

On the eye: Particles in the eyes may cause irritation and smarting

Carcinogenic This product is not listed as a carcinogen**Mutagenic** Currently we do not have any information from our supplier about this.**Sensitization:** No sensitizing effects known**Additional toxicological information:** No specific symptoms noted.**12. Ecological Information****12.1 Acute Toxicity**

Toxicity This product is toxic to fish and other organisms

12.2 Persistence and degradability

Persistence and degradability No information available

12.3 Bioaccumulative potential

Bioaccumulative potential No information available

12.4 Mobility in soil

Mobility in soil soluble in water, predicted to have high mobility in soil.

12.5 Results of PBT and PvB assessment

PBT and PvB assessment No data available

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 amounts leak into the ground.
Also poisonous for fish and plankton in water bodies. Very toxic for aquatic organisms.



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

Waste Catalogue No: No waste code according to the European Waste Catalogue can be assigned for this product, as the intended use dictates the assignment. The waste code is established in consultation with the regional waste disposer.

14. Transport Information

14.1 UN Number	3077	
14.2 UN proper shipping name	3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID N.O.S. (SODIUM	
14.3 Transport hazard class(es)		 
Class	9	
Classification Code	M7	
Hazard label	90	
Transport Category	3	
14.4 Packaging 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	

15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for this substance or mixture.

Regulatory List	Notification	Notification No
-----------------	--------------	-----------------

15.2 Chemical Safety Assessment

Currently we do not have any information from our supplier about this.

16. Other information

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

- H302 Harmful if swallowed.
- H319 Causes serious eye irritation
- H400: Very toxic to aquatic life
- H410: Very toxic to aquatic life with long lasting effects
- H335+H336: May cause respiratory irritation. May cause drowsiness or dizziness
- EUH031 Contact with acids liberates toxic gas.
- EUH206 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

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.

█ Indicates updated section