

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

1.1 Product Identifier Multifunctional Chlorine Granules

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 uses.

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) 8712 229081

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 Category	Target Organs	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.

Classification according to EU Directives 67/548/EEC or 1999/45/EC

Hazard Symbol/Category of danger	Risk phrases
Harmful	R22
Irritant	R31
	R36/37
Dangerous for the environment	R50/53

For the full text of the R phrases 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

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.

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:

Prevention P102 Keep out of reach of children
P402 Store in a dry place.

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Trade Name: Multifunctional Chlorine Granules

2. Hazard Identification continued

Response P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

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

3.1 Substances

Chemical nature: Granular Solid

Mixture of the chemicals listed below with non-hazardous additives.

Chemical Name	Identification Numbers		Amount %	
	CAS No	EINECS		%
sodium dichloroisocyanurate, dihydrate	51580-86-0	220-767-7	50 - 100	50 - 100%
aluminium sulphate	10043-01-3	233-135-0	2.5 - 10	2.5 - 10%
copper sulphate pentahydrate	7758-99-8			≤2.5%

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

Symptoms: No further information available.

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

Unsuitable extinguishing media: Foam or water

5.2 Special hazards arising from the substance or mixture

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

5.3 Advice for fire-fighters

Special 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 penetrat 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

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.
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. 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

7. Handling and storage continued

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.
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8. Exposure control/personal protection**8.1 Control parameters**

Regulatory Basis:	EU. Indicative Exposure and Directives relating to the protection of risks related to work exposure to chemical, physical, and biological agents.
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Control Limit	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.
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Personal protective equipment

Respiratory protection	Advice:	Use suitable respiratory protection when high concentrations are present.
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Hand protection	Advice:	Gloves
	Material:	No information available

Eye protection	Advice:	Tightly fitting safety goggles
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Skin protection	Advice:	Protective clothing
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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
Odour Threshold:	Currently we do not have any information from our supplier about this.
pH @ 20°C:	10 @20°C
Solidification point	Currently we do not have any information from our supplier about this.
Melting Point	Undetermined
Boiling point/boiling range:	Undetermined
Flash point:	Currently we do not have any information from our supplier about this.
Self Igniting:	>200°C
Evaporation rate:	Currently we do not have any information from our supplier about this.
Flammability (solid, gas)	Currently we do not have any information from our supplier about this.
Upper explosion limit:	Currently we do not have any information from our supplier about this.
Lower explosion limit:	Currently we do not have any information from our supplier about this.
Vapour pressure:	Currently we do not have any information from our supplier about this.
Relative vapour density:	Currently we do not have any information from our supplier about this.

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

Density @ 20°C:	Undetermined
Water solubility:	Partly soluble
Partition coefficient:n-octanol/water:	Currently we do not have any information from our supplier about this.
Ignition temperature:	Currently we do not have any information from our supplier about this.
Thermal decomposition:	Currently we do not have any information from our supplier about this.
Viscosity, kinematic:	Currently we do not have any information from our supplier about this.
Explosive properties:	Product does not present an explosion hazard
Oxidising properties:	Product is not an oxidiser

9.2 Other Information**10. Stability and reactivity****10.1 Reactivity**

Advice: No decomposition if used according to specifications

10.2 Chemical stability

Advice: 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

Hazardous decomposition 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 LD50 Oral
Value 1400 mg/kg
Species Rat

7758-99-8 copper sulphate pentahydrate

Value type LD50 Oral
Value 300 mg/kg
Species 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.

Trade Name: Multifunctional Chlorine Granules

12. Ecological Information

12.1 Toxicity

Acute Toxicity

Remarks: This product is toxic to fish and aquatic organisms.

12.2 Persistence and degradability

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

12.3 Bioaccumulative potential

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

12.4 Mobility in soil

Remarks: soluble in water, predicted to have high mobility in soil.

12.5 Results of PBT and PvB assessment

Remarks: 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

European 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 DICHLOROISOCYANURATE DIHYDRATE)

14.3 Transport hazard class(es)

Class 9
Classification Code M7
Hazard label 90
Transport Category 3
Tunnel Code E



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 R-phrases referred to under sections 2 and 3

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 organisms, may cause long-term adverse effects in the aquatic environment

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.

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.

• Abbreviations and acronyms:

ADR:	Accord europeen sur le transport des marchandises dangereuse par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
RID:	Reglement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations concerning the International Carriage of Dangerous Goods by Road)
IMDG:	International Maritime Code for Dangerous Goods
IATA:	International Air Transport Association
IATA-DGR	Dangerous goods Regulations by the 'International Air Transport Association' (IATA)
ICAO:	International Civil Aviation Organization
GHS:	Globally Harmonized System of Classification and Labelling of Chemicals
EINECS	European Inventory of Existing Commercial Chemical Substances.
CAS:	Chemicals Abstracts Service (division of the American Chemical Society)
LC50:	Lethal concentration, 50 percent
LD50:	Lethal dose, 50 percent

Rev	Date	By	Amendment
1	03/12/2007	Linda Brueford	
2	21/03/2012	Linda Brueford	Section 14, UN No added and Class 9 for transport. Updated to new european regulations