

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

- **Trade Name:** Multifunctional Chlorine Granules / UKPS Super Multifunctional Chlorine Granules
- **Other names** Dichlor
- **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. Hazard Identification• **Hazard description**

Xn: Harmful
N : Dangerous for the environment

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

The product has to be labelled due to the calculation procedure of the 'General Classification guideline for preparations of the EU' in the latest version.

- 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.

3. Composition/information on ingredients• **Chemical characterization:**

Mixture of the chemicals listed below with nonhazardous additives.

CAS No.	Description	EINECS Number:	%	Xn; Xi; N
sodium dichloroisocyanurate, dihydrate	51580-86-0	220-767-7	50 - 100	Xn; Xi; N
aluminium sulphate	10043-01-3	233-135-0	2.5 - 10	Xi
copper sulphate pentahydrate	7758-99-8		≤2.5	Xn; Xi; N

4. First Aid measures• **General Information**

Symptoms of poisoning may occur after several hours; therefore medical observation for at least 48 hours after the accident. Immediately remove any clothing soiled by the product.

• **After inhalation:**

Supply fresh air; consult a doctor if symptoms persist

• **After skin contact:**

Immediately rinse with water. If skin irritation continues, consult a doctor.

• **After eye contact:**

Rinse opened eye for several minutes under running water. Contact physician if irritation persists. Check for and remove any contact lenses.

• **After Ingestion:**

Rinse mouth thoroughly with water and give then drink plenty of water. Seek immediate medical advice.

5. Fire fighting measures• **Special extinguishing media:**

Use fire extinguishing methods suitable to surrounding conditions.

• **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.

6. Accidental release Measures**• Personal Protection**

Use appropriate personal protective equipment as detailed in section 8. Ensure adequate ventilation. Prevent formation of dust.

• Environmental Protection

Do not allow the product to reach sewage, water course or ground water. Inform respective authorities in case of seepage.

• Methods for cleaning

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

7. Handling and storage**• Information for safe Handling**

Prevent formation of dust. Ensure good ventilation/exhaustion at the workplace. Ensure high housekeeping standards to remove build up of dust. Do not mix with other products in the concentrated form. Do not mix with acids - toxic gas will be evolved.

• Information about fire and explosion protection

No special measures required

• Requirements to be met by storerooms and receptacles

Prevent any seepage into the ground.

• Information about storage in one common storage facility

Do not store together with acids. Store away from foodstuffs.

• Further information about storage conditions

Keep this product in original, closed container when not in use. Store in a cool, dry, well-ventilated area.

8. Exposure control/personal protection**• Additional Information about design of technical facilities**

No further data; see item 7

• Ingredients with limit values that require monitoring in the workplace.

Product	Short Term	Long Term	Sen
Sodium dichloroisocyanurate, dihydrate	0.07mg/m ³	0.02mg/m ³	as -NCO

• General protective and hygienic measures

Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before break and at the end of work. Avoid contact with the eyes and skin. Do not inhale dust/smoke/mist

• 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.

• Hand Protection

The glove material has to be impermeable and resistant to the product/preparation. Due to missing tests no recommendation to the glove material can be given.

• Eye Protection

Tightly sealed goggles

• Skin Protection

Wear appropriate clothing to prevent repeated or prolonged skin contact

9. Physical and chemical properties

• Appearance at 20oC	White Solid
• Odour	Chlorine
• Melting point / range:	Not determined
• Boiling point / range:	Not determined
• Self Igniting:	>200°C
• Danger of explosion	Product does not present an explosion hazard
• Density	Not determined
• Solubility in water	Partly soluble
• pH (conc)	10 @20°C
• Organic Solvents	0.00%

10. Stability and reactivity• **Thermal decomposition/ conditions to avoid**

No decomposition if used according to specifications

• **Materials to avoid**

Strong acids and oxidising agents

• **Dangerous reactions**

No dangerous reactions known. Reacts with acids under to produce free chlorine

• **Hazardous decomposition products**

Chlorine

11. Toxilogical Information• **Acute Toxicity**

sodium dichloroisocyanurate, dihydrate	51580-86-0	Oral LD50	1400mg/kg (rat)
copper sulphate pentahydrate	7758-99-8	Oral LD50	300 mg/kg (rat)

• **Primary Irritant effect**

on the skin: Irritating effect

on the eye: Irritant effect

• **Sensitization**

No sensitizing effects known

• **Additional toxicological Information**

The product shows the following dangers accord to the calculation methof of the General EU Classification Guidelines for preparations as issued in the latest version:

Harmful

12. Ecological Information• **Remark**

Very Toxic for fish

• **General Notes**

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

- **Product**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. 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 legislation.

- **European waste catalogue**

Waste key numbers in accordance with the European Waste catalogue (EWC) are origin-referred defined. Since this product is used in several industries, no waste key can be provided by the supplier. The waste key number should be determined in arrangement with your waste disposal partner or the responsible authority.

- **Container**

Dispose of in accordance with Local Authority requirements.

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**

Multifunctional Chlorine Granules

- **Code letter and hazard designation of product**



Harmful
Dangerous for the environment

- **Hazard determining components of labelling**

sodium dichloroisocyanurate dihydrate

- **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 environment

- **Safety phrases**

S2 Keep 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.
S29 Do not empty into drains
R36/37/39 Wear suitable protective clothing, gloves and eye/face protection
S46 In swallowed, seek medical advice immediately (show the label where possible).
S64 In swallowed, rinse mouth with water (only if the person is conscious)

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.

• Relevant R phrases

R22	Harmful if swallowed
R31	Contact with acids liberates toxic gas.
R36/37	Irritating to eyes and respiratory system
R36/37/38	Irritating to eyes, respiratory system and skin
R36/38	Irritating to eyes and skin
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

