



SAFETY DATA SHEET

1 Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier**

Product Name: **Multifunctional granules**
Datasheet Number: SP103 1. 0. 0
Product Part Number: SP103
Chemical Name: Mix of Sodium Dichloroisocyanurate, Aluminium Sulphate, Copper Sulphate

1.2 Relevant identified uses of the substance or mixture and uses advised against

Pool / spa treatment

1.3 Details of the supplier of the safety data sheet

Name of Supplier: Total Pool Chemicals Ltd
Address of Supplier: Unit 1, Pool Bank Business Park
High Street, Tarvin
Chester CH3 8JH
UK
Telephone: +44 (0)1829 740290
Fax: +44 (0)1829 741855
Responsible Person: Steve Carder
Email: sales@totalpool.co.uk

1.4 Emergency telephone number

+44 (0)1829 740290 (Office Hours)

2 Hazards identification**2.1 Classification of the substance or mixture**

- Classification (REGULATION (EC) No 1272/2008) [CLP/GHS]
- Acute Tox. 4, H302
- Eye Irrit. 2, H319
- STOT SE 3, H335
- Aquatic Acute 1, H400
- Aquatic Chronic 1, H410
- EUH031
- Classification (67/548/EEC, 1999/45/EC)
- Xn; R22
- R31
- Xi; R36/37
- N; R50/53
- Additional information: For full text of R-phrases and Hazard- and EU Hazard-statements: see section 16

2.2 Label elements



2 Hazards identification (....)

- Signal Word: Warning
- Symbols: GHS07, GHS09

Hazard phrases

- Harmful if swallowed.
- Causes serious eye irritation.
- May cause respiratory irritation.
- Very toxic to aquatic life with long lasting effects.
- Contact with acids liberates toxic gas.
- Warning! Do not use together with other products. May release dangerous gases (chlorine).

Precautionary Phrases

- Keep out of reach of children.
- Wear protective gloves/protective clothing/eye protection/face protection.
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
- If medical advice is needed, have product container or label at hand.
- Avoid release to the environment.

2.3 Other hazards

- Marine pollutant

3 Composition/information on ingredients

3.1 Mixtures

Chemical Name	Concentration	CAS Number	EC Number	R/H Phrases*	Symbols	Index No.
troclosene sodium, dihydrate	50-100%	51580-86-0	220-767-7	H302, H319, H335, H400, H410 R22, R31, R36/37, R50/53	GHS07, GHS09 Xn, N	613-031-01-7
Aluminium sulphate	2.5-10%	10043-01-3	233-135-0	H319, H335, H315 R36/37/38	GHS07 Xi	
Copper sulphate pentahydrate	<2.5%	7758-99-8		H302, H319, H315, H400, H410 R22, R36/38, R50/53	GHS07, GHS09 Xn, N	

*See Section 16

4 First aid measures

4.1 Description of first aid measures

- The onset of toxic effects may be delayed for 48 hours, keep affected person under medical observation
- Remove/Take off immediately all contaminated clothing.
- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
- IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
- If skin irritation or rash occurs: Get medical advice/attention.



4 First aid measures (....)

- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
- Get immediate medical advice/attention.
- Treat symptomatically

4.2 Most important symptoms and effects, both acute and delayed

- Causes severe irritation
- The ingestion of significant quantities may cause damage to digestive system

4.3 Indication of immediate medical attention and special treatment needed

- Treat symptomatically

5 Fire-fighting measures

5.1 Extinguishing media

- In case of fire: use water, alcohol resistant foam or dry agent for extinction

5.2 Special hazards arising from the substance or mixture

- See Section 10.6
- Exposure to decomposition products may be a hazard to health.
- Gives off irritating or toxic fumes (or gases) in a fire.

5.3 Advice for firefighters

- Wear protective clothing as per section 8
- Wear Breathing Apparatus
- Wear full protective clothing including chemical protection suit

6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- Wear protective clothing as per section 8
- Wear suitable respiratory protection
- Evacuate the area and keep personnel upwind
- Avoid raising dust

6.2 Environmental Precautions

- Avoid release to the environment.
- Do not allow to penetrate the ground/soil.
- Do not allow to enter public sewers and watercourses
- If contamination of drainage systems or water courses is unavoidable, immediately inform appropriate authorities

6.3 Methods and material for containment and cleaning up

- Ventilate area
- Remove by mechanical means
- Remove contaminated material to safe location for subsequent disposal
- Place in appropriate container
- Seek expert advice for removal and disposal of all contaminated materials and wastes

6.4 Reference to other sections

- See Section 7 & 8



7 Handling and storage

7.1 Precautions for safe handling

- Avoid raising dust
- Ensure adequate ventilation
- Avoid contact with acid
- Do not allow dust to accumulate on surfaces and equipment
- Do not breathe dust/fume/gas/mist/vapours/spray.
- Do not mix with any other products

7.2 Conditions for safe storage, including any incompatibilities

- Store away from other materials.
- Store in a dry place. Store in a closed container.
- Store in a well-ventilated place. Keep cool.
- Keep away from acid.
- Keep away from foodstuff.

7.3 Specific end use(s)

- No information available.

8 Exposure controls/personal protection

8.1 Control parameters

- WEL (short term) [isocyanates, all, as -NCO] 0.07 mg/m³
- WEL (long term) [isocyanates, all, as -NCO] 0.02 mg/m³
- WEL (long term) [Aluminium salts, soluble] 2 mg/m³

8.2 Exposure controls

- Engineering controls should be provided which maintain airborne concentrations below the relevant guidelines

Occupational exposure controls

- In case of inadequate ventilation wear respiratory protection.
- Wear suitable protective clothing, including eye/face protection and gloves (butyl rubber are recommended)
- When handling this substance, e.g. sampling, wear goggles giving complete eye protection
- Keep working clothes separately and do not take them home



Respirator



Goggles



Gloves



Suit

9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

- Odour: chlorine
- Appearance: Solid, white, granules
- pH 10
- Boiling point - not known
- Vapour pressure - not known
- Vapour density - not known
- Melting point - not known



9 Physical and chemical properties (....)

- Dispersible
- Specific gravity - not known
- Not flammable but will support combustion
- Auto-ignition point - not applicable
- Non-explosive
- Partition coefficient : n-Octanol/water - not known
- Evaporation rate - not known
- Viscosity - not applicable

9 .2 Other information

- Volatile Organic Compound Content 0.00%

10 Stability and reactivity

10 .1 Reactivity

- Warning! Do not use together with other products. May release dangerous gases (chlorine).

10 .2 Chemical stability

- No information available

10 .3 Possibility of hazardous reactions

- Contact with acids liberates toxic gas.

10 .4 Conditions to avoid

- Avoid contact with foodstuffs
- Avoid contact with acid
- Avoid contact with oxidising substances

10 .5 Incompatible materials

- Contact with acids liberates toxic gas.

10 .6 Hazardous Decomposition Products

- Decomposition products include chlorine.
- Decomposition products may include hydrogen chloride
- Decomposition products may include carbon oxides

11 Toxicological information

11 .1 Information on toxicological effects

- LD50 (oral,rat) [troclosene sodium, dihydrate] 1400 mg/kg
- LD50 (oral,rat) [Copper sulphate pentahydrate] 300 mg/kg
- Irritancy (eye, human) - irritant

Inhalation

- Can cause damage to the mucous membranes
- Can cause damage to the respiratory system
- May cause dizziness
- Causes coughing
- In cases of severe exposure, delayed pulmonary oedema may develop



11 Toxicological information (....)

Contact with skin

- May cause irritation
- In cases of severe exposure, redness may develop
- In cases of severe exposure, dermatitis may develop

Contact with eyes

- Causes severe irritation
- Can cause damage to the eyes

Ingestion

- Can cause damage to the stomach lining
- The ingestion of significant quantities may cause damage to digestive system

Carcinogenicity

- No evidence of carcinogenic effects

Teratogenicity

- No information available

Mutagenicity

- No information available
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12 Ecological information

12 .1 Toxicity

- Very toxic to aquatic life with long lasting effects.

12 .2 Persistence and degradability

- No information available

12 .3 Bioaccumulation Potential

- Bioaccumulation is insignificant

12 .4 Mobility in soil

- Large volumes may penetrate soil and contaminate groundwater
- Marine pollutant

12 .5 Results of PBT and vPvB assessment

- Not a PBT according to REACH Annex XIII

12 .6 Other Adverse Effects

- Water Hazard Class 2 (Company)
-

13 Disposal considerations

13 .1 Waste treatment methods

- Disposal should be in accordance with local, state or national legislation
 - Do not reuse empty containers
 - Uncontaminated material may be returnable. Contact supplier
-



13 Disposal considerations (....)

Classification

- The waste must be identified according to the List of Wastes (2000/532/EC)

14 Transport information



ENVIRONMENTALLY HAZARDOUS

14.1 UN Number
3077

14.2 UN Proper Shipping Name
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Troclosene sodium, dihydrate)

14.3 Transport hazard class(es)
9

14.4 Packing group
III

14.5 Environmental hazards
- Marine pollutant

14.6 Special precautions for user
- See Section 7

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code
- Not applicable

Other information

Road/Rail (ADR/RID)

Proper Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Troclosene sodium, dihydrate)		
ADR UN No.:	3077		
ADR Hazard Class:	9	ADR Packing Group:	III
Tunnel Code:	E		

Sea (IMDG)

Proper Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Troclosene sodium, dihydrate)		
IMDG UN No.:	3077		
IMDG Hazard Class.:	9	IMDG Pack Group.:	E

Air (ICAO/IATA)

Proper Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Troclosene sodium, dihydrate)		
ICAO Un No.:	3077		
ICAO Hazard Class.:	9	ICAO Packing Group.:	III



15 Regulatory information

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

- Refer to current CPL Regulations
- Refer to current EC Directive 82/501/EEC (the Seveso Directive)
- The List of Wastes (England) Regulations 2005 apply in the UK

15.2 Chemical Safety Assessment

16 Other information

Text of R and S phrase codes used in this safety data sheet:- H302: Harmful if swallowed.; H315: Causes skin irritation.; H319: Causes serious eye irritation.; H335: May cause respiratory irritation.; H400: Very toxic to aquatic life.; H410: Very toxic to aquatic life with long lasting effects.; 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.

The statements made herein are based on our best present experience and are intended to describe product safety requirements. They should not therefore be considered as a warranty of specific properties.