

SAFETY DATA SHEET

Product Name: Stabilised Chlorine Granules

1. Chemical product and company identification

Product name	Chlorine Granules
Chemical name	Sodium Dichloroisocyanurate
Product type and use	Swimming pools
Company identification	Swimmingpoolchemicals
Address and telephone number	Unit 5, Pool Bank Park High Street, Tarvin, Chester CH3 8JH
Emergency telephone number	01829 740290

2. Composition/Information on ingredients

Chemical Name	CAS No	Content (%)	Symbol	R-phrases(s)
Troclosene sodium, dihydrate	51580-86-0	100	Xn N	22/31/36/37/50/53

3. Hazards identification

Main risks	Irritating to skin after long periods
Inhalation	Irritating to respiratory system
Skin Contact	May cause irritation
Contact with eyes	Irritating to eyes
Ingestion	Harmful if ingested
Environmental risks	May cause long-term adverse effects in the aquatic environment

4. First-aid measures

Inhalation	Move from contaminated area
Skin contact	Remove contaminated clothing, wash with plenty of water
Contact with eyes	Flush with plenty of water with eyelids held open
Ingestion	Wash mouth out with water, drink water, milk or egg-white

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5. Fire-fighting measures

Extinguishing media

- Suitable

- Not suitable

- Specific hazards

- Specific protection of firefighters

Plenty of water

Small quantities of water, foam, dry chemicals

Combustion products, possible emission of chlorine gas

Use self-breathing apparatus and suitable protective clothing

6. Accidental release measure

Personal precautions

Environmental precautions

Methods for cleaning up

Avoid dust formation

Do not empty into drains or watercourses

Flush minor spills with plenty of water taking into consideration the effect of active chlorine amount on the recipient water. Alternatively, they can be collected in clean, dry containers and disposed of by reduction with sodium sulphite under strictly controlled conditions and with trained personnel. Refer to manufacturer guidelines. If the collected product is moist or contaminated with reactive substance it must be destroyed as soon as possible.

7. Handling and Storage

Handling

Ensure good ventilation and exhaustion of the working area
Avoid contact with organic materials. This product fosters combustion.

Keep away from all sources of heat and ignition.

Do not smoke

Avoid dust formation

Take precautionary care against static discharges

Storage

Store in closed containers in dry, well ventilated area

Protect from moisture and heat

Maximum recommended storage temperature 25°C. Do not Exceed 35°C.

Can be subject to local storage regulations

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8. Exposure controls/Personal Protection

Limit values	TLV not established. The chlorine limits are suggested: TLV/TWA = 0.5 ppm TLV/STEL = 1.0 ppm (ACGIH)
Personal protection:	Do not breathe dust Avoid contact with eyes, skin and mucous membranes Carefully wash hands and face during breaks and at end of work.
Respiratory protection:	Protective apparatus for chlorine and dust.
Hand protection:	Gloves.
Eye protection:	Chemical safety goggles.
Body protection:	Protective clothing, boots.
Other:	Eyewash bottle.

9. Physical and Chemical Properties

Appearance:	
Form	Granules
Colour	White
Odour	As of chlorine
Relevant data for safety:	
Change in physical state	
Boiling point	n.a.
Melting point (decomposes)	240 - 250°C
Flash point	n.a.
Flammability (solid, gas)	n.a.
Ignition temperature	n.a.
Autoflammability	n.a.
Oxidising properties	n.a.
Explosive properties	n.a.
Explosion limits - Lower	n.a.
- Upper	n.a.
Vapour pressure (20°C)	n.a.
Density (20°C)	n.a.
Bulk density	0.94 – 1.00 g/cm ³
Solubility in water (25°C)	approx 250 g/l
pH (1% in H ₂ O) (25°C)	6.0 – 7.0
Partition coefficient n-octanol/water (log POW 20°C)	n.d.
Viscosity (20°C)	n.a.

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10. Stability and Reactivity

Conditions to avoid

Thermal decomposition: Decomposition occurs if heated above 200°C with loss of water between 50 and 100°C. Decomposition is self-sustaining with emission of toxic gases (chlorine and traces of phosgene) and heat.

Materials to avoid

Hazardous reactions: Product with oxidising properties. Avoid contact with any organic or inorganic oxidisable matter. Contact with organic matter may cause fire. By contacts with acids decomposition occurs with chlorine development. Especially, avoid contact with nitrogen containing compounds like ammonia, urea, amines or similar. Small quantities of water react with evolution of violently explosive nitrogen trichloride.

Other information: Thermally decomposing material can be controlled by flooding with a great amount of water.

11. Toxicological Information

Oral LD50, rat (mg/kg)

1800 mg/kg

Eye irritation, rabbit

Severe

Skin irritation, rabbit

Moderate

12. Ecological information

Utilise according to good manufacturing practice and avoid to empty into the environment. Evolving chlorine, this product is very toxic to aquatic organisms and may cause long-term adverse effects in the aquatic environment.

13. Disposal Considerations

Product:

Dispose according to local and national regulations.

Contaminated Packaging:

Handle contaminated containers as the product itself. Dispose of the packaging by incineration or dumping only after cleaning by destroying the product residues. Do not reuse the packaging, even after complete cleaning, but for chlorocyanurates.

14. Transport Information

General information:

Not Regulated for transport

Road transport:

Sea transport:

Air transport:

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15. Regulatory Information:

EC labelling:

Symbol:

Xn

Harmful.

N

Dangerous for the environment

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

S- Phrases

S2

Keep out of reach of children.

S8

Keep container dry.

S26

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S41

In case of fire and /or explosion do not breathe fumes.

S46

If swallowed, seek medical advice immediately and show this container or label.

S60

This material and its container must be disposed of as hazardous waste.

S61

Avoid release to the environment. Refer to special instructions/safety data sheets.

Warning!

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

16. Other information

n.a. = not applicable

n.d. = not determined

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.