

MATERIAL 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	Total Pool Chemicals Ltd			
Address and telephone number	Unit 1, 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-phrase(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	Plenty of water
- Not suitable	Small quantities of water, foam, dry chemicals
- Specific hazards	Combustion products, possible emission of chlorine gas
- Specific protection of firefighters	Use self-breathing apparatus and suitable protective clothing
6. Accidental release measure	
Personal precautions	Avoid dust formation
Environmental precautions	Do not empty into drains or watercourses
Methods for cleaning up	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	High temperature. Poor ventilation. Contamination.
Stability	This product is stable under normal conditions.
Polymerisation	Hazardous polymerisation will not occur under normal conditions.
Decomposition products	Chlorine gas.
Materials to avoid	Other swimming pool/spa chemicals in their concentrated forms. Bases and acids.
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 N	Harmful. Dangerous for the environment
	R-Phrases:	R22 R31 R36/37 R50/53	Harmful if swallowed. Contact with acids liberates toxic gas Irritating to eyes and respiratory system Very toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment.
	S- Phrases	S2 S8 S26 S41 S46 S60 S61	Keep out of reach of children. Keep container dry. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. In case of fire and /or explosion do not breathe fumes. If swallowed, seek medical advice immediately and show this container or label. This material and its container must be disposed of as hazardous waste. 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.			