

SAFETY DATA SHEET

Product Name: Stabilised Chlorine Tablets											
1. Chemical product and company identification Product name Chemical name Product type and use Company identification Address and telephone number Emergency telephone number	Chlorine Tablets Trichloroisocyanuric acid Swimming pools Swimmingpoolchemicals Unit 5, Pool Bank Park High Street, Tarvin, Chester CH3 8JH 01829 740290										
2. Composition/Information on ingredients	<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Chemical Name</th> <th style="text-align: left;">CAS No</th> <th style="text-align: left;">Content (%)</th> <th style="text-align: left;">Symbol</th> <th style="text-align: left;">R-phrases(s)</th> </tr> </thead> <tbody> <tr> <td style="vertical-align: top;">1,3,5-Trichloro-1,3,5-triazine-2,4,6 (1H, 3H, 5H) – trione or Trichloro (iso) cyanuric acid</td> <td style="vertical-align: top;">87-90-1</td> <td style="vertical-align: top;">100 (approx)</td> <td style="vertical-align: top;">Xn Harmful</td> <td style="vertical-align: top;">R22 Harmful by ingestion R31 Contact with acids Liberates toxic gas R36/37 Irritating to eyes and Respiratory system</td> </tr> </tbody> </table>	Chemical Name	CAS No	Content (%)	Symbol	R-phrases(s)	1,3,5-Trichloro-1,3,5-triazine-2,4,6 (1H, 3H, 5H) – trione or Trichloro (iso) cyanuric acid	87-90-1	100 (approx)	Xn Harmful	R22 Harmful by ingestion R31 Contact with acids Liberates toxic gas R36/37 Irritating to eyes and Respiratory system
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3. Hazards identification Oxidiser: Inhalation Skin Contact Contact with eyes Ingestion Environmental risks	Irritating to respiratory system May cause irritation after long periods Irritating to eyes Harmful if ingested Fire risk in case of decomposition; nitrogen trichloride Formation may cause an explosion.										
4. First-aid measures General recommendations: Inhalation: Skin contact: Contact with eyes Ingestion	Seek medical advice. Move the affected person from contaminated area Remove contaminated clothing, wash with plenty of water Flush immediately under flowing water with eyelids held open Wash mouth out with water, drink water, milk or egg-white										

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5. Fire-fighting measures

- Suitable Plenty of water
- Unsuitable Small quantities of water, foam, dry chemicals
- Hazards arising Combustion products, resulting gases
- Protective equipment Self-breathing apparatus, protective clothing
- Other precautions Keep containers cool by spraying water

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. Recommended storage temperature <25°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	Tablets
Colour	White
Odour	As of chlorine
Relevant data for safety:	
Change in physical state	
Boiling point	n.a.
Melting point (decomposes)	225 - 230°C
Flash point	n.a.
Flammability (solid, gas)	n.a.
Ignition temperature	n.a.
Autoflammability	n.a.
Oxidising properties	Oxidiser
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	n.a.
Solubility in water (25°C)	approx 12 g/l
pH (1% in H ₂ O) (25°C)	2.7 – 3.3
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. Decomposition is self-sustained with emission of toxic gases (chlorine and traces of phosgene) and heat.

Materials to avoid

Hazardous reactions: This product is a strong oxidiser. Avoid contact with any organic or inorganic oxidisable material. 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)

800 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 harmful to fishes and aquatic life. Classification according to the German law on water management: WGK = 2 (harmful), estimated.

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:

UN No 2468

Proper shipping name: Trichloroisocyanuric acid, dry.

Packaging Group: II

ADR/RID: Class 5.1 Item 26b

Road transport:

IMO: Class 5.1 IMDG Code Page 5190 (Admt. 27-94)

Sea transport:

No. EmS 5.1 – 05 MFAG 740

Marine pollutant:

Air transport:

ICAO/IATA: Class 5.1 – PAC 508 – CAC 511

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15. Regulatory Information:

EC labelling:

Symbol:	O	Oxidising.
	Xn	Harmful.
R-Phrases:	R8	Contact with combustible material may cause fire.
	R22	Harmful if swallowed.
	R31	Contact with acids liberates toxic gas.
	R36/37	Irritating to eyes and respiratory system
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.
Warning!		Do not use together with other products. May release dangerous gases (chlorine).
Description:		Trichloroisocyanuric acid

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.