

# Multifunctional Chlorine Tablets 20g /200g

1.1 Product Identifier	trichloroiso	cyanuric aci	d / symclosene			
	Relevant Identified uses and restrictions of the substance or mixture					
Uses: For disinfection of pool and spa water.						
.3 Details of the supplier of	-					
Company: Maclin Sourcing Solutions Ltd Unit A3 Risby Business Park						
						Newmarket
	Risby, Suffo	lk				
	IP28 6RD					
Telephone:	+44 (0) 1284					
E-mail:	<u>info@macli</u>	ngroup.co.u	<u>k</u>			
I.4 Emergency Telephone						
Telephone:	+44 (0) 1284 81	0887	(office hours)			
d Identification						
.1 Classification of the sub Classification according			/2000			
Hazard Class	Hazard Stat	-	2008			
Ox. Sol. 3	H272	centerites				
Acute Tox. 4 *	H302					
Eye Irrit. 2	H319					
STOT SE 3	H335					
Aquatic Acute 1	H400					
Aquatic Chronic1	H410					
Most important adverse	effects					
Human Health:		See secti	on 11 for toxicological information			
Physical & Chemical Haz			on 9 for physicochemical information			
Potential environmental	effects:	See section	on 12 for environmental information			
.2 Label elements						
The product is classified	and labelled acc	cording to th	ne CLP regulation			
			¥.			
Hazard symbols:		$\sim$				
	GHS03	GHS09	GHS07			
Signal word:	Warning					
Hazard-determining cor	nponents of labe	elling:	trichloroisocyanuric acid			
_		-				
Hazard statements	H272 H302		nsify fire; oxidiser if swallowed.			
	H319		erious eye irritation			
	H335	-	se respiratory irritation.			
	H410	Very toxi	c to aquatic life with long lasting effects			
Precautionary stateme			l advice is needed, have product container or label at hand.			
	P102 P201		of reach of children becial instructions before use			

P305+351+338		: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to nue rinsing		
P301+P312	IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.			
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.			
P 308 + P313	IF expose	d or concerned: Get medical advice / attention.		
P402	Store in a dry place.			
P405	Store locked up.			
P501	Dispose o	f contents/container in accordance with local/regional/national/international regulations.		
Additional info	rmation:	EUH031 Contact with acids liberates toxic gas.		
		Warning! Do not use together with other products. May release dangerous gases (chlorine).		
2.3 Other Hazards				
PBT and vPvE	3 assessmer	nt PBT: Not applicable.		
		vPvB: Not applicable.		

# 3. Composition/information on ingredients

CAS-No.	EINECS	Index-No.	%	
trichloroisocyan	uric acid			
87-90-1	201-782-8	613-031-00-5 7	5 - 100%	Ox. Sol. 2, H272; 💫 Aquatic Acute 1, H400; Aquatic Chronic 1
Davia Aaid				H410; 🚸 Acute Tox. 4, H302; Eye Irrit. 2, H319; STOT SE 3, H335
<i>Boric Acid</i> 10043-35-3	233-139-2	005-007-00-2 0	.5- 1%	🚸 Repr. 1B, H360FD
copper(II) sulfat	e, pentahydı	ate		
				📀 Eye Dam. 1, H318; 🚸 Aquatic Acute 1, H400; Aquatic Chronic
7758-99-8	231-847-6	0	.5 - 1%	H410; 안 Acute Tox. 4, H302
Aluminium sulfa	ate octadeca	hydrate		
7784-31-8	233-135-0	0	.5 - 1%	📀 Eye Dam. 1, H318
SVHC				× ·
10043-35-3 bori	c acid			
Additional infor	mation · For	the wording of t	bo listod	hazard phrases refer to section 16.

## 4. First Aid measures

4.1 Description of first aid me General Advice:	asures Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident
After inhalation:	Supply fresh air; consult doctor in case of complaints.
After skin contact:	Seek medical treatment.
After eye contact:	Call a doctor immediately. Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
After swallowing:	Rinse out mouth and then drink plenty of water. Call for a doctor immediately.
4.2 Most important symptom Symptoms and effects:	s and effects, both acute and delayed No relevant information available.
4.3 Indication of immediate m Treatment	nedical attention and special treatment needed No relevant information available.

# 5. Fire fighting measures

5.1 Extinguishing media: Suitable extinguishing media: Unsuitable extinguishing media:	Water, water spray, carbon dioxide. Extinguishing powder, foam, water with full jet.
5.2 Special hazards arising from the substa	
Coosific Hozarda during fire fighting	Formation of toxic gases is possible during heating or in case of fire. In case o
Specific Hazards during fire fighting:	fire, the following can be released: Nitrogen oxides (NOx); Hydrogen chloride (HCl)
5.3 Advice for fire-fighters	
Special protective equipment	Wear self-contained respiratory protective device.
	Wear fully protective suit.
	Mouth respiratory protective device.
Additional information	Cool endangered receptacles with water spray.
	Collect contaminated fire fighting water separately. It must not enter the
	sewage system.

o.1 i ersonal precautions, pr	otective equipment and emergency procedures
Personal Precautions:	Avoid formation of dust.
	Ensure adequate ventilation
	Mount respiratory protective device.
6.2 Environmental precautio	ns
Environmental precautio	ns: Keep contaminated washing water and dispose of appropriately.
	Do not allow product to reach sewage system or any water course.
	Inform respective authorities in case of seepage into water course or sewage system.
	Do not allow to enter sewers/ surface or ground water.
6.3 Methods and materials f	or containment and cleaning up
Cleaning up:	Dispose contaminated material as waste according to item 13.
	Ensure adequate ventilation.
6.4 Reference to other section	ons
Other Sections	See Section 7 for information on safe handling.
	See Section 8 for information on personal protection equipment

# 7. Handling and storage

7.1 Precautions for safe handlir	Ig
Advice on safe handling:	Store in cool, dry place in tightly closed receptacles.
	Provide suction extractors if dust is formed.
	Restrict the quantity stored at the work place.
	Do not refill residue into storage receptacles.
7.2 Conditions for safe storage,	including any incompatibilities.
Requirements for storage areas:	Store only in the original receptacle.
Common storage facility:	Do not store together with acids.
Further information on storage:	Protect from humidity and water.
	Keep container tightly sealed.
	Store in cool, dry conditions in well sealed receptacles.
Storage class:	5.1B
7.3 Specific end uses	
Specific use(s)	No relevant information available.
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8. Exposur	e control/personal protectio	n				
8.1	8.1 Control parameters Ingredients with limit values that require monitoring at the workplace:					
	The product does not conta the workplace.	in any relevant quantities of materials with critical values that have to be monitored at				
	Additional information:	The lists valid during the making were used as basis				
8.2	Exposure controls					
	Personal protective equipm	ent				
	General protective and hygi					
	Keep away from foodstuffs,					
	Immediately remove all soile	ed and contaminated clothing				
	Wash hands before breaks a	and at the end of work.				
	Avoid contact with the eyes					
	Avoid contact with the eyes	and skin.				
	Respiratory protection: Use suitable respiratory protective device when high concentrations ar In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer e					
	selfcontained respiratory protective device.					
	Protection of hands:	Wear suitable chemical resistant gloves				
		impermeable and resistant to the product/ the substance/ the preparation.				
	-	mmendation to the glove material can be given for the product.				
	Selection of the glove mater Material of gloves	ial on consideration of the penetration times, rates of diffusion and the degradation				
	The selection of the suitable	gloves does not only depend on the material, but also on further marks of quality and				
		manufacturer. As the product is a preparation of several substances, the resistance				
	-	t be calculated in advance and has therefore to be checked prior to the application.				
	Penetration time of glove m					
		has to be found out by the manufacturer of the protective gloves and has to be observed.				
	•	gloves made of the following materials are suitable:				
	Nitrile rubber, NBR					
	Chloroprene rubber, CR					
	Butyl rubber, BR					
	Eye protection:	Tightly sealed goggles				
	Body protection:	Protective work clothing, Boots, Apron				

# 9. Physical and chemical properties

9.1_Information on basic physical and chem	ical properties
General Information	
Appearance:	
Form	Tablets
Colour:	Blue
Odour:	Like chlorine
Odour threshold:	Not determined.
pH-value (10 g/l) at 20 °C: "	2.0-2.7
Change in condition:	
Melting point/Melting range:	225-240 °C
Boiling point/Boiling range:	Undetermined.
Flash point:	Not applicable.
Flammability (solid	gaseous): "
Decomposition temperature:	225 °C
Self-igniting:	Product is not selfigniting.
Danger of explosion:	Product does not present an explosion hazard. Page 4 of 9

## 9. Physical and chemical properties

9.1 Information on basic ph	iysical and chemical p	roperties
General Information		
Explosion limits:	Lower:	Not determined.
	Upper:	Not determined.
Vapour pressure:		Not applicable.
Density at 20 °C:		ca. 2.5 g/cm <sup>3</sup>

Density at 20 °C: Relative density Vapour density Evaporation rate Solubility in / Miscibility with water at 25 °C: Partition coefficient (n-octanol/water):

Dynamic viscosity: Kinematic viscosity: Solvent content: Solids content: Not applicable. Not applicable. 12 g/l Not determined. Not applicable. 0.00% 100.00%

Not determined.

### 9.2 Other Information Other information

No further relevant information available.

# 10. Stability and reactivity

10.1	Reactivity Reactivity	No further relevant information available.
10.2	Chemical stability	
	Chemical stability	No further relevant information available.
10.3	Possibility of hazardous rea	ctions
	Hazardous reactions	Reacts with oxidising agents.
		Reacts with strong alkali.
		Reacts with amines.
		Strong exothermic reaction with acids.
		Reacts with flammable substances.
		Reacts with acids releasing chlorine.
		Reacts with reducing agents.
10.4	Conditions to avoid	
	Conditions to avoid	No further relevant information available.
10.5	Incompatible materials	
	Materials to avoid	No further relevant information available.
10.6	Hazardous decomposition p	products
	Haz. Decomp. products:	Hydrogen chloride (HCl), Chlorine, Nitrogen oxides (NOx)

# 11. Toxilogical Information

# 11.1 Information on toxilogical effects

**Toxicity Values** 

trichloroiso		87-90-1					
Route Species Test Value Units							
Oral	Rat	LD50	406	mg/kg			
boric acid	boric acid 10043-35-3						
Oral	Rat	LD50	2660	mg/kg			

### 11. Toxilogical Information

#### 11.1 Information on toxilogical effects

Primary Irritant effect:

Skin corrosion/irritation: Based on available data, the classification criteria are not met. Serious eye damage/irritation: Causes serious eye irritation.

Respiratory or skin sensitisation: Based on available data, the classification criteria are not met.

CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)

Germ cell mutagenicity: Based on available data, the classification criteria are not met.
Carcinogenicity: Based on available data, the classification criteria are not met.
Reproductive toxicity : Based on available data, the classification criteria are not met.
STOT-single exposure: May cause respiratory irritation.

STOT-repeated exposure: Based on available data, the classification criteria are not met. Aspiration hazard: Based on available data, the classification criteria are not met.

#### 12. Ecological Information

#### 12.1 Toxicity

Acute Toxicity				
trichloroisocyanuric acid			87-90-1	
Species	Test	Value	Units	
Daphnia	EC50	0.2	mg / I	(Modified method based on the ASTM method E645-85)
(Selenastrum capricornutum	EC50	0.5	mg / I	
(Danio rerio (Zebrabärbling)	LC50	0.3	mg / I	
boric acid			10043-35-3	
(Chlorella pyrenoidosa)	NOEC	10	mg / I	
Daphnia	LC50	133	mg / I	(ASTM Standard E 729-80)

### 12.2 Persistence and degradability

Persistence and degradability No further relevant information available.

# 12.3 Bioaccumlative potential

Bioaccumlative potential No further relevant information available.

12.4 Mobility in soil

Mobility in soil No further relevant information available.

Ecotoxical effects: Remark: Very toxic for fish

Behaviour in sewage processing plants 10043-35-3 boric acid NOEC 180 mg/l (Activated sludge) (OECD "Chironomid testing using spiked sediment")

Additional ecological information:

General notes:

Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water Do not allow product to reach ground water, water course or sewage system, even in small quantities. Danger to drinking water if even extremely small quantities leak into the ground. Also poisonous for fish and plankton in water bodies. Very toxic for aquatic organisms

- 12.5 Results of PBT and PvB assessment Results of PBT and PvB Not applicable
- 12.6 Other adverse effectsNo further relevant information available.

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#### **13.** Disposal Considerations

# 13.1 Waste treatment methods

Must be specially treated adhering to official regulations. Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Uncleaned packaging:

Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning. Packagings that may not be cleansed are to be disposed of in the same manner as the product.

Recommended cleansing agents:

Water, if necessary together with cleansing agents.

#### 14. Transport Information 14.1 UN Number UN1479 14.2 UN proper shipping name 1479 OXIDIZING SOLID, N.O.S. (TRICHLOROISOCYANURIC ACID), ENVIRONMENTALLY ADR: HAZARDOUS OXIDIZING SOLID, N.O.S. (TRICHLOROISOCYANURIC ACID), MARINE POLLUTANT IMDG: IATA: OXIDIZING SOLID, N.O.S. (TRICHLOROISOCYANURIC ACID) 14.3 Transport hazard class(es) ADR / IMDG 5.1 Class: Oxidising substances. Label: 5.1 IATA: Class: 5.1 Oxidising substances. Label: 5.1 14.4 Packaging Group Ш ADR / IMDG / IATA 14.5 Environmental hazards Marine pollutant: Yes Yes Symbol (fish and tree) Special marking (ADR): Symbol (fish and tree) 14.6 Special precautions for user Special precautions: Warning: Oxidising substances. Danger code (Kemler): 50 EMS Number: F-A,S-Q Stowage Category В Segregation Code SG38 Stow "separated from" ammonium compounds. SG49 Stow "separated from" cyanides SG60 Stow "separated from" peroxides SG61 Stow "separated from" powdered metals 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable Transport/Additional information: ADR Excepted quantities (EQ): E1 Limited quantities (LQ) 5 kg E1 Excepted quantities (EQ) Code: Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g

nsport Information	
Transport/Additional information:	
ADR	
Excepted quantities (EQ):	E1
Limited quantities (LQ)	5 kg
Excepted quantities (EQ) Code:	E1
	Maximum net quantity per inner packaging: 30 g
	Maximum net quantity per outer packaging: 1000 g
Transport category	3
Tunnel restriction code	E
IMDG	
Limited quantities (LQ)	5 kg
Excepted quantities (EQ) Code:	E1
	Maximum net quantity per inner packaging: 30 g
	Maximum net quantity per outer packaging: 1000 g
	UN1479 OXIDIZING SOLID, N.O.S. (TRICHLOROISOCYANURIC ACID), 5.1, III
UN "Model Regulation":	ENVIRONMENTALLY HAZARDOUS

## 15. Regulatory information

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

Directive 2012/18/EU

Named dangerous substances - ANNEX I None of the ingredients is listed. Seveso category

P8 **OXIDISING LIQUIDS AND SOLIDS** 

E1 Hazardous to the Aquatic Environment

Qualifying quantity (tonnes) for the application of lower-tier requirements 50 t Qualifying quantity (tonnes) for the application of upper-tier requirements 200 t REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 30

National regulations: Other regulations, limitations and prohibitive regulations

Substances of very high concern (SVHC) according to REACH, Articles 57 10043-35-3 boric acid

## 15.2 Chemical Safety Assessment A Chemical Safety Assessment has not been carried out.

## 16. Other information

Full text of H-statements referred to under sections 2 and 3			
H272	May intensify fire; oxidiser.		
H302	Harmful if swallowed.		
H319	Causes serious eye irritation.		
H335	May cause respiratory irritation.		
H360FD	May damage fertility. May damage the unborn child.		
H400	Very toxic to aquatic life.		
H410	Very toxic to aquatic life with long lasting effects.		

### 16. Other information

Further information

Restricted to professional users. Attention - Avoid exposure- obtain special instructions before use

This information is believed to be accurate and represents the best information currently available to us. However, we make no warranty or merchantability, or fitness for any particular use, or any other warranty, express or implied, with respect to this information, and we assume no liability resulting from use of this information Users should make their own investigations to determine the suitability of the information for their particular needs and uses.

Indicates updated section