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* SECTION 1: Identification of the substance/mixture and of the company/undertaking

· **1.1 Product identifier**

· **Trade name: Multi Chlorine Tablets**

· **Registration number** Mixture
· **1.2 Relevant identified uses of the substance or mixture and uses advised against**
· **Product category**
PC8 Biocidal products
PC35 Washing and cleaning products (including solvent based products)
· **Application of the substance / the mixture**
Cleaning agent/ Cleaner
Disinfectant
· **Uses advised against** Any use not specified above.

· **1.3 Details of the supplier of the safety data sheet**
· **Supplier:**
Complete Pool Controls Ltd
Unit 2, The Park
Stoke Orchard
Bishops Cleeve
Gloucestershire
GL52 7RS
UK

Tel: +44 (0)1242 662700 (office hours)
email: sales@cpc-chemicals.co.uk

· **Further information obtainable from:** Product safety department.
· **1.4 Emergency telephone number:**
OHES Environmental

Tel: 01242 300271
Members of the public seeking specific information on poisons should contact:
In England and Wales: NHS 111 - dial 111
In Scotland: NHS 24 - dial 111

* SECTION 2: Hazards identification

· **2.1 Classification of the substance or mixture**
· **Classification according to GB-CLP**

Ox. Sol. 2	H272 May intensify fire; oxidiser.
Acute Tox. 4	H302 Harmful if swallowed.
Eye Dam. 1	H318 Causes serious eye damage.
STOT SE 3	H335 May cause respiratory irritation.
Aquatic Acute 1	H400 Very toxic to aquatic life.
Aquatic Chronic 1	H410 Very toxic to aquatic life with long lasting effects.

· **2.2 Label elements**
· **Labelling according to GB-CLP** The product is classified and labelled according to the GB CLP regulation.

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· **Hazard pictograms**

GHS03 GHS05 GHS07 GHS09

· **Signal word** Danger

· **Hazard-determining components of labelling:**
symclosene
Aluminium sulphate
Copper sulphate

· **Hazard statements**
H272 May intensify fire; oxidiser.
H302 Harmful if swallowed.
H318 Causes serious eye damage.
H335 May cause respiratory irritation.
H410 Very toxic to aquatic life with long lasting effects.

· **Precautionary statements**
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P220 Keep away from clothing and other combustible materials.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER/doctor.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Additional information:**
EUH031 Contact with acids liberates toxic gas.
Contains biocidal active substance(s): symclosene

· **The Detergents (Amendment) (EU Exit) Regulations 2020 / Labelling for contents**
disinfectants, preservation agents (symclosene)

· **2.3 Other hazards**
· **Results of PBT and vPvB assessment**
· **PBT:** Not applicable.
· **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

· **3.2 Mixtures**
· **Description:** Mixture of substances listed below with nonhazardous additions.

· **Dangerous components:**		
CAS: 87-90-1 EINECS: 201-782-8 Index number: 613-031-00-5 Reg.nr.: 01-2120767978-27-XXXX	symclosene Ox. Sol. 2, H272; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 4, H302; Eye Irrit. 2, H319; STOT SE 3, H335, EUH031	50 – 100%
CAS: 10043-01-3 EINECS: 233-135-0 Reg.nr.: 01-2119531538-36-XXXX	Aluminium sulphate Met. Corr.1, H290; Eye Dam. 1, H318	3 – 10%

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CAS: 7758-98-7 EINECS: 231-847-6 Index number: 029-004-00-0 Reg.nr.: 01-2119520566-40-XXXX	Copper sulphate Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=1); Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319	1 – < 2.5%

· **Additional information:** For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

· **4.1 Description of first aid measures**
· **General information:**
Immediately remove any clothing soiled by the product.
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.
In case of unconsciousness place patient stably in side position for transportation.
· **After skin contact:**
Immediately rinse with water.
If skin irritation continues, consult a doctor.
· **After eye contact:**
Check for and remove any contact lenses.
Rinse opened eye for several minutes under running water. Then consult a doctor.
· **After swallowing:**
Rinse out mouth and then drink plenty of water.
Do not induce vomiting; call for medical help immediately.
If vomiting occurs spontaneously, keep airway clear. Drink more water when vomiting stops. Seek medical attention immediately
· **Information for doctor:** Treat symptomatically and supportively.
· **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
· **4.3 Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

SECTION 5: Firefighting measures

· **5.1 Extinguishing media**
· **Suitable extinguishing agents:**
Water spray
Alcohol resistant foam
BC powder
Use fire extinguishing methods suitable to surrounding conditions.
· **For safety reasons unsuitable extinguishing agents:**
Water with full jet
Do not use ABC extinguishers containing nitrogen, due to risk of violent chemical reaction.
· **5.2 Special hazards arising from the substance or mixture**
Strong oxidiser. Contact with combustible or flammable substances may cause fire.
In case of fire, the following can be released:
Carbon monoxide and carbon dioxide
Chlorine compounds

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Nitrogen oxides (NOx)
Sulphur Oxides (SOx)
· **5.3 Advice for firefighters**
· **Protective equipment:**
Wear self-contained respiratory protective device.
Do not inhale explosion gases or combustion gases.
Wear fully protective suit.
· **Additional information**
Cool endangered receptacles with water spray.
Collect contaminated fire fighting water separately. It must not enter the sewage system.

SECTION 6: Accidental release measures

· **6.1 Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation
Keep ignition sources away - no smoking.
Avoid formation of dust.
· **6.2 Environmental precautions:**
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.
· **6.3 Methods and material for containment and cleaning up:**
Pick up mechanically.
Send for recovery or disposal in suitable receptacles.
Do not use combustible materials such as paper towels to clean up spills.
DO NOT transport wet or damp material. Damp material should be neutralized to a safe state.
Ensure adequate ventilation.
· **6.4 Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

· **7.1 Precautions for safe handling**
Thorough dedusting.
Ensure good ventilation/exhaustion at the workplace.
Avoid direct contact (skin/eye contact, ingestion and/or inhalation of fume/mist/dust) with the product in the undiluted form.
Rinse contaminated clothing with plenty of water (Fire hazard)
Do not mix with acids.
Never add water to the product. Always add product to large quantities of water.
Safety showers and eye wash facilities should be available at the work area.
· **Information about fire - and explosion protection:**
Substance/product can reduce the ignition temperature of flammable substances.
No special measures required.

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· **7.2 Conditions for safe storage, including any incompatibilities**
· **Storage:**
· **Requirements to be met by storerooms and receptacles:**
Do not store on combustible materials such as wooden floors or wooden pallets.
Store only in the original receptacle.
· **Information about storage in one common storage facility:**
Do not store together with acids.
Store away from combustible materials.
· **Further information about storage conditions:**
Store in cool, dry conditions in well sealed receptacles.
Protect from heat and direct sunlight.
· **Storage class:** 5.1 B
· **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

· **8.1 Control parameters**

· **Ingredients with limit values that require monitoring at the workplace:**	
CAS: 10043-01-3 Aluminium sulphate	
WEL	Long-term value: 2 mg/m³
CAS: 7758-98-7 Copper sulphate	
WEL	Short-term value: 2 mg/m³ Long-term value: 1 mg/m³ dusts and mists, as Cu

· **DNELs**		
CAS: 87-90-1 symclosene		
Oral	Long-term systemic effects	1.14 mg/kg bw/day (general population)
Dermal	Long-term systemic effects	1.14 mg/kg bw/day (general population)
		2.28 mg/kg bw/day (worker)
Inhalative	Long-term systemic effects	1.98 mg/m³ (general population)
		8.04 mg/m³ (worker)
CAS: 10043-01-3 Aluminium sulphate		
Oral	Long-term systemic effects	1.9 mg/kg bw/day (general population)
	Short-term systemic effects	92.4 mg/kg bw/day (general population)
Dermal	Short-term systemic effects	23.35 mg/kg bw/day (general population)
		46.7 mg/kg bw/day (worker)
	Long-term systemic effects	855 µg/kg bw/day (general population)
		1,710 µg/kg bw/day (worker)
	Short-term systemic effects	441 µg/kg bw/day (general population)
		882 µg/kg bw/day (worker)
	Long-term local effects	441 µg/kg bw/day (general population)
		882 µg/kg bw/day (worker)
Inhalative	Long-term systemic effects	1.5 mg/m³ (general population)

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		3 mg/m³ (worker)
	Short-term systemic effects	1 mg/m³ (general population)
		2 mg/m³ (worker)
	Long-term local effects	1.5 mg/m³ (general population)
		3 mg/m³ (worker)
	Short-term local effects	1 mg/m³ (general population)
		2 mg/m³ (worker)
CAS: 7758-98-7 Copper sulphate		
Oral	Long-term systemic effects	41 µg/kg bw/day (general population)
	Short-term systemic effects	82 µg/kg bw/day (general population)
Dermal	Long-term systemic effects	137 mg/kg bw/day (worker)
Inhalative	Long-term systemic effects	1 mg/m³ (worker)
	Long-term local effects	1 mg/m³ (worker)

· **PNECs**

CAS: 87-90-1 symclosene	
Freshwater	0.17 – 12,100 µg/L
Freshwater - Intermittent releases	1.7 – 6,550 µg/L
Marine water	1.52 mg/L
Sewage Treatment Plant	590 – 204,100 µg/L
Sediment (freshwater)	7.56 mg/kg
Sediment (marine water)	756 µg/kg
Soil	756 µg/kg
CAS: 10043-01-3 Aluminium sulphate	
Freshwater	4.5 mg/L
Freshwater - Intermittent releases	30.11 mg/L
Marine water	64 mg/L
Sewage Treatment Plant	60.2 mg/L
Sediment (freshwater)	10 mg/kg
Sediment (marine water)	31.4 mg/kg
Air	2 mg/m³
Soil	58 mg/kg
Secondary poisoning	150 mg/kg food
CAS: 7758-98-7 Copper sulphate	
Freshwater	7.8 µg/L
Marine water	5.2 µg/L
Sewage Treatment Plant	230 µg/L
Sediment (freshwater)	87 mg/kg
Sediment (marine water)	676 mg/kg
Soil	65 mg/kg

· **Additional information:** The lists valid during the making were used as basis.

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· **8.2 Exposure controls**
· **Appropriate engineering controls** No further data; see section 7.
· **Individual protection measures, such as personal protective equipment**
· **General protective and hygienic measures:**
The usual precautionary measures are to be adhered to when handling chemicals.
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.
Ensure that eyewash stations and safety showers are close to the workstation location.
Contaminated clothes are a fire hazard. Rinse with plenty of water.
· **Respiratory protection:**
Use suitable respiratory protective device in case of insufficient ventilation.
Filter P2
· **Hand protection**

Protective gloves.
Use gloves tested and approved under appropriate government standards such as NIOSH (US) or EN374 (EU).

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
· **Material of gloves**
Butyl rubber, BR
Chloroprene rubber, CR
Fluorocarbon rubber (Viton)
Nitrile rubber, NBR
PVC gloves
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
· **Penetration time of glove material**
Break-through time: > 480 minutes
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
· **Eye/face protection**

Tightly sealed goggles conforming to EN166.

· **Body protection:**

Flame retardant antistatic protective clothing.

Body protection must be chosen depending on product properties, activity and possible exposure.
· **Environmental exposure controls** Do not allow to enter drains, sewers or watercourses.

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· **Risk management measures** The operators shall be instructed adequately.

SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**	
· **General Information**	
· **Physical state**	Solid
· **Colour:**	White / Blue
· **Odour:**	Chlorine-like
· **Odour threshold:**	Not determined.
· **Melting point/freezing point:**	225 °C (Decomposes)
· **Boiling point or initial boiling point and boiling range**	Undetermined.
· **Flammability**	Not determined.
· **Lower and upper explosion limit**	
· **Lower:**	Not determined.
· **Upper:**	Not determined.
· **Flash point:**	Not applicable.
· **Decomposition temperature:**	Not determined.
· **pH at 20 °C**	2.7 – 3.3 (1%)
· **Viscosity:**	
· **Kinematic viscosity**	Not applicable.
· **Dynamic:**	Not applicable.
· **Solubility**	
· **water:**	Soluble.
· **Partition coefficient n-octanol/water (log value)**	Not determined.
· **Vapour pressure:**	Not applicable.
· **Density and/or relative density**	
· **Density at 20 °C:**	2.07 g/cm³
· **Relative density**	Not determined.
· **Vapour density**	Not applicable.
· **9.2 Other information**	
· **Appearance:**	
· **Form:**	Tablets
· **Important information on protection of health and environment, and on safety.**	
· **Ignition temperature:**	Product is not self-igniting.
· **Explosive properties:**	Product does not present an explosion hazard.
· **Solvent content:**	
· **Solids content:**	100.0 %
· **Change in condition**	
· **Evaporation rate**	Not applicable.
· **Information with regard to physical hazard classes**	
· **Explosives**	Void
· **Flammable gases**	Void
· **Aerosols**	Void
· **Oxidising gases**	Void
· **Gases under pressure**	Void
· **Flammable liquids**	Void

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· **Flammable solids**	Void
· **Self-reactive substances and mixtures**	Void
· **Pyrophoric liquids**	Void
· **Pyrophoric solids**	Void
· **Self-heating substances and mixtures**	Void
· **Substances and mixtures, which emit flammable gases in contact with water**	Void
· **Oxidising liquids**	Void
· **Oxidising solids**	May intensify fire; oxidiser.
· **Organic peroxides**	Void
· **Corrosive to metals**	Void
· **Desensitised explosives**	Void

SECTION 10: Stability and reactivity

· **10.1 Reactivity** No further relevant information available.
· **10.2 Chemical stability**
· **Thermal decomposition / conditions to be avoided:** Decomposes on heating, producing toxic fumes.
· **10.3 Possibility of hazardous reactions**
Reacts violently with many substances.
Acts as an oxidising agent on organic materials such as wood, paper and fats.
· **10.4 Conditions to avoid**
Heat and static discharge.
Moisture may decompose this product and cause a violent reaction leading to fire and explosion.
· **10.5 Incompatible materials:**
Combustible materials.
Acids
Ammonia
Strong bases.
Hypochlorous acid and Hypochlorites
Reducing agents.
Organic solvents.
· **10.6 Hazardous decomposition products:**
Chlorine
Cyanogen chloride
Nitrogen oxides
Phosgene

SECTION 11: Toxicological information

· **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
· **Acute toxicity** Harmful if swallowed.

· **LD/LC50 values relevant for classification:**		
ATE (Acute Toxicity Estimates)		
Oral	LD50	433.34 mg/kg (rat)

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CAS: 87-90-1 symclosene		
Oral	LD50	406 mg/kg (rat)
CAS: 10043-01-3 Aluminium sulphate		
Oral	LD50	> 2,000 mg/kg (rat)
Dermal	LD50	> 5,000 mg/kg (rabbit)
Inhalative	LC50/4 h	> 5 mg/l (rat)
CAS: 7758-98-7 Copper sulphate		
Oral	LD50	480 mg/kg (rat)
Dermal	LD50	> 2,000 mg/kg (rat)

· **Primary irritant effect:**
· **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
· **Serious eye damage/irritation** Causes serious eye damage.
· **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
· **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.
· **Subacute to chronic toxicity:**
Prolonged or repeated skin contact may irritate and cause dermatitis.
EFFECTS OF LONG-TERM OR REPEATED EXPOSURE: The substance may have effects on the liver and kidneys.
· **Additional toxicological information:**
Inhalation may cause lung oedema, but only after initial corrosive effects on eyes and/or airways have become manifest. The symptoms of lung oedema often do not become manifest until a few hours have passed and they are aggravated by physical effort. Rest and medical observation are therefore essential. Immediate administration of an appropriate inhalation therapy by a doctor or a person authorized by him/her, should be considered.
· **Acute effects (acute toxicity, irritation and corrosivity)**
EFFECTS OF SHORT-TERM EXPOSURE: The substance irritates the eyes, the skin and the respiratory tract. Corrosive on ingestion.
· **11.2 Information on other hazards**

· **Endocrine disrupting properties**
None of the ingredients are listed.

SECTION 12: Ecological information

· **12.1 Toxicity**
· **Aquatic toxicity:** No further relevant information available.
· **12.2 Persistence and degradability** No further relevant information available.
· **12.3 Bioaccumulative potential** Contains components with the potential to bioaccumulate.
· **12.4 Mobility in soil** No further relevant information available.
· **12.5 Results of PBT and vPvB assessment**
· **PBT:** Not applicable.
· **vPvB:** Not applicable.
· **12.6 Endocrine disrupting properties** The product does not contain substances with endocrine disrupting properties.

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· **12.7 Other adverse effects**
· **Remark:** Very toxic for fish
· **Additional ecological information:**
· **General notes:**
Very toxic for aquatic organisms
Also poisonous for fish and plankton in water bodies.
Must not reach sewage water or drainage ditch undiluted or unneutralised.
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.

SECTION 13: Disposal considerations

· **13.1 Waste treatment methods**
· **Recommendation**
Recommended Hierarchy of Controls:
- Minimise waste;
- Reuse if not contaminated;
- Recycle, if possible; or
- Safe disposal (if all else fails).
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
Contact waste processors for recycling information.
Used, degraded or contaminated product may be classified as hazardous waste. Anyone classifying hazardous waste and determining its fate must be qualified in accordance with state and international legislation.
Do not mix with other waste streams.

· **Uncleaned packaging:**
· **Recommendation:**
Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.
Disposal must be made according to official regulations.
Do not mix with other waste streams.
Container remains hazardous when empty. Continue to observe all precautions.
Containers, even those that are “empty,” may contain residues that can develop flammable and/or hazardous vapours upon heating. Do not cut, drill, grind, weld, or perform similar operations on or near empty containers.
· **Recommended cleansing agents:** Large quantities of water

SECTION 14: Transport information

· **14.1 UN number or ID number**	
· **ADR/RID/ADN, IMDG, IATA**	UN2468
· **14.2 UN proper shipping name**	
· **ADR/RID/ADN**	UN2468 TRICHLOROISOCYANURIC ACID, DRY, ENVIRONMENTALLY HAZARDOUS
· **IMDG**	TRICHLOROISOCYANURIC ACID, DRY, MARINE POLLUTANT
· **IATA**	TRICHLOROISOCYANURIC ACID, DRY

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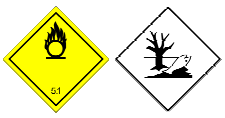
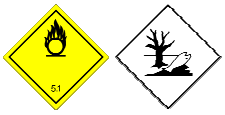
· **14.3 Transport hazard class(es)**

· **ADR/RID/ADN**



· **Class**	5.1 (O2) Oxidising substances.
· **Label**	5.1

· **IMDG**



· **Class**	5.1 Oxidising substances.
· **Label**	5.1

· **IATA**

· **Class**	5.1 Oxidising substances.
· **Label**	5.1

· **14.4 Packing group**	
· **ADR/RID/ADN, IMDG, IATA**	II
· **14.5 Environmental hazards:**	Product contains environmentally hazardous substances: symclosene
· **Marine pollutant:**	Symbol (fish and tree)
· **Special marking (ADR/RID/ADN):**	Symbol (fish and tree)
· **14.6 Special precautions for user**	Warning: Oxidising substances.
· **Hazard identification number (Kemler code):**	50
· **Hazchem Code:**	1W
· **EMS Number:**	F-A,S-Q
· **Stowage Category**	B
· **Segregation Code**	SG38 Stow "separated from" SGG2-ammonium compounds. SG49 Stow "separated from" SGG6-cyanides SG60 Stow "separated from" SGG16-peroxides SG61 Stow "separated from" SGG15-powdered metals
· **14.7 Maritime transport in bulk according to IMO instruments**	Not applicable.
· **Transport/Additional information:**	DO NOT transport wet or damp product.

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· **ADR/RID/ADN**	
· **Limited quantities (LQ)**	1 kg
· **Excepted quantities (EQ)**	Code: E2 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 500 g
· **Transport category**	2
· **Tunnel restriction code**	E
· **IMDG**	
· **Limited quantities (LQ)**	1 kg
· **Excepted quantities (EQ)**	Code: E2 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 500 g
· **UN "Model Regulation":**	UN 2468 TRICHLOROISOCYANURIC ACID, DRY, 5.1, II, ENVIRONMENTALLY HAZARDOUS

SECTION 15: Regulatory information

· **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
· **Poisons Act**

· **Regulated explosives precursors**
None of the ingredients are listed.

· **Regulated poisons**
None of the ingredients are listed.

· **Reportable explosives precursors**
None of the ingredients are listed.

· **Reportable poisons**
None of the ingredients are listed.

· **Control Of Major Accident Hazards Regulations 2015 (COMAH)**
· **Named dangerous substances - ANNEX I** None of the ingredients are listed.
· **COMAH category**
P8
E1
· **Qualifying quantity (tonnes) for the application of lower-tier requirements** 50 t
· **Qualifying quantity (tonnes) for the application of upper-tier requirements** 200 t

· **National regulations:**

· **Information about limitation of use:**

Class	Share in %
III	2.0

· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

(Contd. on page 14)

Safety data sheet
according to UK REACH (SI 2020/1577) as amended

Printing date 27.01.2025 Version number 2 (replaces version 1) Revision: 27.01.2025

Trade name: Multi Chlorine Tablets

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SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.
This Safety Data Sheet is in compliance with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) 2020/878.

· **Relevant phrases**
H272 May intensify fire; oxidiser.
H290 May be corrosive to metals.
H302 Harmful if swallowed.
H315 Causes skin irritation.
H318 Causes serious eye damage.
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.
EUH031 Contact with acids liberates toxic gas.
· **Training hints**
This product should only be handled by workers who have received sufficient training in the safe handling and use of chemical products.

· **Department issuing SDS:** Product safety department.
· **Abbreviations and acronyms:**
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
DNEL: Derived No-Effect Level (UK REACH)
PNEC: Predicted No-Effect Concentration (UK REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
ATE: Acute toxicity estimate values
Ox. Sol. 2: Oxidizing solids – Category 2
Met. Corr.1: Corrosive to metals – Category 1
Acute Tox. 4: Acute toxicity – Category 4
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1
· *** Data compared to the previous version altered.**