



SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

WaterJems Multifunctional Chlorine Tablets (Boric Free)

Version 5.0

Print Date 2016/12/23

Revision date / valid from 2016/12/23

MSDS code: MAAE211

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

1.1. Product identifier

Trade name : Multifunctional Chlorine Tablets (Boric Free)

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the Substance/Mixture : disinfectant, Algae control, Flocculant, Swimming pool water treatment

Uses advised against : At this moment we have not identified any uses advised against

1.3. Details of the supplier of the safety data sheet

Company : Jem Products Ltd
Unit 20 Sycamore Trading Estate
Blackpool
Lancashire
FY4 3RL

1.4. Emergency telephone number

Emergency telephone number : NHS 111 or 999

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

REGULATION (EC) No 1272/2008			
Hazard class	Hazard category	Target Organs	Hazard statements
Oxidizing solids	Category 2	---	H272
Acute toxicity (Oral)	Category 4	---	H302
Serious eye damage	Category 1	---	H318

WaterJems Multifunctional Chlorine Tablets (Boric Free)

Specific target organ toxicity - single exposure	Category 3	Respiratory system	H335
Acute aquatic toxicity	Category 1	---	H400
Chronic aquatic toxicity	Category 1	---	H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

Most important adverse effects


Human Health : See section 11 for toxicological information.

Physical and chemical hazards : See section 9 for physicochemical information.

Potential environmental effects : See section 12 for environmental information.

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008

Hazard symbols : 

Signal word : Danger

Hazard statements : H272 May intensify fire; oxidizer.
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

Prevention : P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P221 Take any precaution to avoid mixing with combustibles.
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P273 Avoid release to the environment.

Response : P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse

WaterJems Multifunctional Chlorine Tablets (Boric Free)

		mouth. P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.
Storage	: P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
Disposal	: P501	Dispose of contents/ container in accordance with the local/regional/international regulations.

Additional Labelling:

EUH031 Contact with acids liberates toxic gas.

Hazardous components which must be listed on the label:

- symclosene
- Aluminium sulphate
- copper sulphate pentahydrate

2.3. Other hazards

For Results of PBT and vPvB assessment see section 12.5.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components	Amount [%]	Classification (REGULATION (EC) No 1272/2008)	
		Hazard class / Hazard category	Hazard statements
symclosene			
Index-No. : 613-031-00-5	> 87 - < 95	Ox. Sol.2	H272
CAS-No. : 87-90-1		Acute Tox.4	H302
EC-No. : 201-782-8		Eye Irrit.2	H319
		STOT SE3	H335
		Aquatic Acute1	H400
	Aquatic Chronic1	H410	
Aluminium sulphate			
CAS-No. : 10043-01-3	> 2 - < 4	Met. Corr.1	H290
EC-No. : 233-135-0		Eye Dam.1	H318
copper sulphate pentahydrate			

WaterJems Multifunctional Chlorine Tablets (Boric Free)

Index-No.	: 029-004-00-0	> 2 - < 4	Acute Tox.4	H302
CAS-No.	: 7758-99-8		Eye Irrit.2	H319
EC-No.	: 231-847-6		Skin Irrit.2	H315
EU REACH-	: 01-2119520566-40-xxxx		Aquatic Acute1	H400
Reg. No.			Aquatic Chronic1	H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice	: Take off all contaminated clothing immediately. Wash contaminated clothing before re-use.
If inhaled	: Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. If a person feels unwell, consult a physician.
In case of skin contact	: Wash off immediately with plenty of water. If skin irritation persists, call a physician.
In case of eye contact	: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Consult an eye specialist immediately. Go to an ophthalmic hospital if possible. Immediate medical attention is required.
If swallowed	: Rinse mouth with water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a physician immediately.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms	: See Section 11 for more detailed information on health effects and symptoms.
Effects	: Causes serious eye damage. See Section 11 for more detailed information on health effects and symptoms.

4.3. Indication of any immediate medical attention and special treatment needed

Treatment	: Treat symptomatically.
-----------	--------------------------

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Carbon dioxide (CO ₂), Water
Unsuitable extinguishing	: High volume water jet, Halogenated hydrocarbon

media

5.2. Special hazards arising from the substance or mixture

Specific hazards during firefighting : The substance itself does not burn, but in contact with combustible substances it increases the risk of fire and can fuel any existing fire substantially. In the event of fire and/or explosion do not breathe fumes. Decomposes on heating. Heating or fire can release toxic gas.

Hazardous combustion products : Carbon monoxide, Carbon dioxide (CO₂), Chlorine, chlorine oxides, Nitrogen trichloride

5.3. Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus. Wear personal protective equipment.

Further advice : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment. Keep away unprotected persons. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing.

6.2. Environmental precautions

Environmental precautions : Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3. Methods and materials for containment and cleaning up

Methods and materials for containment and cleaning up : Sweep up and shovel into suitable containers for disposal. Flush away residuals with plenty of water. Retain and dispose of contaminated wash water. Clean contaminated floors and objects thoroughly while observing environmental regulations.

Further information : Treat recovered material as described in the section "Disposal considerations". Should not be released into the environment.

6.4. Reference to other sections

See Section 1 for emergency contact information.

See Section 8 for information on personal protective equipment.

See Section 13 for waste treatment information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

WaterJems Multifunctional Chlorine Tablets (Boric Free)

Advice on safe handling : Keep container tightly closed. Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Emergency eye wash fountains and emergency showers should be available in the immediate vicinity. Avoid dust formation.

Hygiene measures : Keep away from food, drink and animal feedingstuffs. Smoking, eating and drinking should be prohibited in the application area. Wash hands before breaks and at the end of workday. Remove and wash contaminated clothing before re-use.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Store in original container.

Advice on protection against fire and explosion : Oxidizing; Contact with combustible material may cause fire. Keep away from sources of ignition - No smoking.

Further information on storage conditions : Keep tightly closed in a dry and cool place. Keep in a well-ventilated place. Avoid wet, humid or damp conditions.

Advice on common storage : Incompatible with oxidizing agents. Do not store together with oxidizing and self-igniting products. Keep away from food, drink and animal feedingstuffs. Store away from incompatible substances.

Storage temperature : < 50 °C

Suitable packaging materials : Plastics

Unsuitable packaging materials : , Rubber, metals

7.3. Specific end use(s)

Specific use(s) : No information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Component:	copper sulphate pentahydrate	CAS-No. 7758-99-8
-------------------	-------------------------------------	--------------------------

Derived No Effect Level (DNEL)/Derived Minimal Effect Level (DMEL)

No DNEL value was derived. :

Predicted No Effect Concentration (PNEC)

WaterJems Multifunctional Chlorine Tablets (Boric Free)

Fresh water copper sulphate	: 7.8 µg/l
Marine water copper sulphate	: 5.2 µg/l
Sewage treatment plant (STP) copper sulphate	: 230 µg/l
Fresh water sediment copper sulphate	: 87 mg/kg d.w.
Marine sediment copper sulphate	: 676 mg/kg d.w.
Soil copper sulphate	: 65 mg/kg d.w.

Component:	Aluminium sulphate	CAS-No. 10043-01-3
-------------------	---------------------------	---------------------------

Other Occupational Exposure Limit Values

UK. EH40 Workplace Exposure Limits (WELs), Time Weighted Average (TWA):
2 mg/m³

ELV (IE), Time Weighted Average (TWA):
2 mg/m³

8.2. Exposure controls

Appropriate engineering controls

Refer to protective measures listed in sections 7 and 8.

Provide for appropriate exhaust ventilation and dust collection at machinery.

Personal protective equipment

Respiratory protection

Advice : If ventilation is insufficient, suitable respiratory protection must be provided
Required, if exposure limit is exceeded (e.g. OEL).
In the case of dust or aerosol formation use respirator with an approved filter.
Respiratory protection complying with EN 141.
Recommended Filter type: B2
Particle filter:P2
Particle filter:P3

Hand protection

Advice : Protective gloves complying with EN 374.
Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves.
Also take into consideration the specific local conditions under

WaterJems Multifunctional Chlorine Tablets (Boric Free)

which the product is used, such as the danger of cuts, abrasion, and the contact time.

Protective gloves should be replaced at first signs of wear.

Material : Chemical resistant gloves.

Eye protection

Advice : Safety goggles

Skin and body protection

Advice : Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.

Wear appropriate chemical resistant clothing and boots.

Environmental exposure controls

General advice : Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form	:	tablet
Colour	:	no data available
Odour	:	slight chlorine
Odour Threshold	:	no data available
pH	:	2.7 - 3.3
Melting point/range	:	246.8 °C (EU Method A.1)
Boiling point	:	no data available
Flash point	:	Not applicable
Evaporation rate	:	no data available
Flammability (solid, gas)	:	The product is not flammable. (Flammability (solids))
Upper explosion limit	:	no data available
Lower explosion limit	:	no data available
Vapour pressure	:	< 0.00002 hPa (20 °C)

WaterJems Multifunctional Chlorine Tablets (Boric Free)

Relative vapour density	:	no data available
Relative density	:	no data available
Water solubility	:	ca. 12 g/l (25 °C)
Solubility in other solvents	:	385 g/l (Ethyl acetate) 350 g/l (Acetone) 70 g/l (Toluene)
Partition coefficient: n-octanol/water	:	log Kow 0.94 (Program KOWWIN) (calculated)
Auto-ignition temperature	:	no data available
Thermal decomposition	:	246.8 °C
Viscosity, dynamic	:	Not applicable
Explosivity	:	no data available
Oxidizing properties	:	May intensify fire; oxidizer. (Oxidizing properties (solids))

9.2. Other information

No further information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

Advice : No decomposition if stored and applied as directed. The substance itself does not burn, but in contact with combustible substances it increases the risk of fire and can fuel any existing fire substantially.

10.2. Chemical stability

Advice : Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions : Contact with combustible material may cause fire.

10.4. Conditions to avoid

Conditions to avoid : > 50 °C
Exposure to moisturehumid air and water

WaterJems Multifunctional Chlorine Tablets (Boric Free)

Thermal decomposition : 246.8 °C

10.5. Incompatible materials

Materials to avoid : Incompatible with oxidizing agents. Acids, Bases, Reducing agents, Nitrogen, Ammonium salts, Urea, Amines, Quaternary ammonium byproducts, Oil, fatty substances, Peroxides, Cationic surfactants, Keep away from combustible material.

10.6. Hazardous decomposition products

Hazardous decomposition products : Decomposes on heating. Chlorine, chlorine oxides, Nitrogen trichloride

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Data for the product

Acute toxicity

Oral

Acute toxicity estimate : 787 - 868 mg/kg body weight(Rat) (EPA OPP 81-1)
Harmful if swallowed.

Inhalation

no data available

Dermal

no data available

Irritation

Skin

no data available

Eyes

Result : Causes serious eye damage.

Sensitisation

no data available

CMR effects

WaterJems Multifunctional Chlorine Tablets (Boric Free)

CMR Properties

Carcinogenicity : no data available
Mutagenicity : no data available
Reproductive toxicity : no data available

Specific Target Organ Toxicity

Single exposure

Inhalation : May cause respiratory irritation.

Repeated exposure

no data available

Other toxic properties

Repeated dose toxicity

no data available

Aspiration hazard

no data available

Component: **symclosene** **CAS-No. 87-90-1**

Acute toxicity

Oral

LD50 : 787 - 868 mg/kg (Rat, male and female) (EPA OPP 81-1)

Inhalation

LC50 : > 50 mg/l (Rat; 1 h)

Dermal

LD50 : > 2000 mg/kg (Rabbit, male and female) (EPA OPP 81-2)

Irritation

Skin

Result : Mild skin irritation (Rabbit)

WaterJems Multifunctional Chlorine Tablets (Boric Free)

Eyes

Result : Causes serious eye irritation. (Rabbit)

Other toxic properties

Aspiration hazard

Not applicable,

Component: copper sulphate pentahydrate **CAS-No.** 7758-99-8

Acute toxicity

Oral

LD50 : 450 - 1000 mg/kg (Rat)

Inhalation

no data available

Dermal

LD50 : > 2000 mg/kg (Rabbit)

Irritation

Skin

Result : Irritating to skin.

Eyes

Result : Irritating to eyes.

Sensitisation

Result : No sensitizing effect known.

CMR effects

CMR Properties

Carcinogenicity : It is not considered carcinogenic.

Mutagenicity : In vitro tests did not show mutagenic effects
In vivo tests showed mutagenic effects

Teratogenicity : no data available

WaterJems Multifunctional Chlorine Tablets (Boric Free)

Reproductive toxicity : no data available

Genotoxicity in vitro

Result : negative (Ames test; Salmonella typhimurium)

Genotoxicity in vivo

Result : negative (In vivo micronucleus test)

Specific Target Organ Toxicity

Single exposure

Remark : The substance or mixture is not classified as specific target organ toxicant, single exposure.

Repeated exposure

Remark : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Other toxic properties

Aspiration hazard

Not applicable,

SECTION 12: Ecological information

12.1. Toxicity

Data for the product

Chronic toxicity

Chronic aquatic toxicity

Result : Very toxic to aquatic life with long lasting effects.

Component: **symclosene** **CAS-No. 87-90-1**

Acute toxicity

Fish

|| LC50 : 0.24 mg/l (Salmo gairdneri; 96 h) (static test; EPA 40 CFR 797.1400)

WaterJems Multifunctional Chlorine Tablets (Boric Free)

|| LC50 : 0.23 mg/l (Lepomis macrochirus (Bluegill sunfish); 96 h) (static test)

Toxicity to daphnia and other aquatic invertebrates

|| EC50 : 0.17 mg/l (Daphnia magna; 48 h) (static test; ASTM)

Component: copper sulphate pentahydrate **CAS-No.** 7758-99-8

Acute toxicity

Fish

LC50 : 0.75 - 0.84 mg/l (Oncorhynchus mykiss; 96 h; Test substance: copper sulphate)

Toxicity to daphnia and other aquatic invertebrates

EC50 : 0.024 mg/l (Daphnia magna (Water flea); 48 h; Test substance: copper sulphate)

algae

EC50 : 0.1 mg/l (scenedesmus quadricauda; 4 h; Test substance: copper sulphate)

Bacteria

LC50 : 0.08 mg/l (Escherichia coli)

M-Factor

M-Factor (Acute Aquat. Tox.) : 10

12.2. Persistence and degradability

Component: copper sulphate pentahydrate **CAS-No.** 7758-99-8

Persistence and degradability

Persistence

|| Result : no data available

Biodegradability

Result : The methods for determining the biological degradability are not applicable to inorganic substances.

WaterJems Multifunctional Chlorine Tablets (Boric Free)

Component:	symclosene	CAS-No. 87-90-1
-------------------	-------------------	------------------------

Persistence and degradability

Biodegradability

Result	:	2 % (Exposure Time: 28 d)(OECD Test Guideline 301D) Not readily biodegradable.
--------	---	---

12.3. Bioaccumulative potential

Component:	copper sulphate pentahydrate	CAS-No. 7758-99-8
-------------------	-------------------------------------	--------------------------

Bioaccumulation

Result	:	Bioaccumulation is potentially possible.
--------	---	--

12.4. Mobility in soil

Component:	copper sulphate pentahydrate	CAS-No. 7758-99-8
-------------------	-------------------------------------	--------------------------

Mobility

Water	:	The product is water soluble.
-------	---	-------------------------------

Soil	:	Has low mobility.
------	---	-------------------

12.5. Results of PBT and vPvB assessment

Data for the product

Results of PBT and vPvB assessment

Result	:	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
--------	---	--

Component:	copper sulphate pentahydrate	CAS-No. 7758-99-8
-------------------	-------------------------------------	--------------------------

Results of PBT and vPvB assessment

Result	:	The PBT or vPvB criteria of Annex XIII to the REACH Regulation does not apply to inorganic substances.
--------	---	--

12.6. Other adverse effects

Data for the product

Additional ecological information

WaterJems Multifunctional Chlorine Tablets (Boric Free)

Result : Do not flush into surface water or sanitary sewer system.
Avoid subsoil penetration.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product : Disposal together with normal waste is not allowed. Special disposal required according to local regulations. Do not let product enter drains. Contact waste disposal services. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Contaminated packaging : Dispose of contaminated packaging in the same way as the product. In accordance with local and national regulations. Avoid discharge into the environment.

European Waste Catalogue Number : No waste code according to the European Waste Catalogue can be assigned for this product, as the intended use dictates the assignment. The waste code is established in consultation with the regional waste disposer.

SECTION 14: Transport information

14.1. UN number

2468

14.2. UN proper shipping name

ADR : TRICHLOROISOCYANURIC ACID, DRY
RID : TRICHLOROISOCYANURIC ACID, DRY
IMDG : TRICHLOROISOCYANURIC ACID, DRY

14.3. Transport hazard class(es)

ADR-Class : 5.1
(Labels; Classification Code; Hazard identification No; Tunnel restriction code) 5.1; O2; 50; (E)

RID-Class : 5.1
(Labels; Classification Code; Hazard identification No) 5.1; O2; 50

IMDG-Class : 5.1
(Labels; EmS) 5.1; F-A, S-Q

14.4. Packaging group

ADR : II
RID : II
IMDG : II

WaterJems Multifunctional Chlorine Tablets (Boric Free)

14.5. Environmental hazards

Environmentally hazardous according to ADR : yes
Environmentally hazardous according to RID : yes
Marine Pollutant according to IMDG-Code : yes

14.6. Special precautions for user

Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

IMDG : Not applicable.

SECTION 15: Regulatory information

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

Component:	synclosene	CAS-No. 87-90-1
------------	------------	-----------------

EU. Regulation No 1451/2007 [Biocides], Annex I, OJ (L 325) : EC Number: , 201-782-8; Listed

EU. Directive 2012/18/EU (SEVESO III) Annex I : Lower-tier requirements: 50 tonnes; Part 1: Categories of dangerous substances; P8: Oxidising Liquids or solids, Category 1, 2 or 3
Upper-tier requirements: 200 tonnes; Part 1: Categories of dangerous substances; P8: Oxidising Liquids or solids, Category 1, 2 or 3
Lower-tier requirements: 100 tonnes; Part 1: Categories of dangerous substances; E1: Hazardous to the Aquatic Environment in Category Acute 1 or Chronic 1
Upper-tier requirements: 200 tonnes; Part 1: Categories of dangerous substances; E1: Hazardous to the Aquatic Environment in Category Acute 1 or Chronic 1

WGK (DE) : WGK 2: water endangering: 7,322; Classification source is Annex 3.

Component:	Aluminium sulphate	CAS-No. 10043-01-3
------------	--------------------	--------------------

EU. Regulation No 1451/2007 [Biocides], Annex I, OJ (L 325) : EC Number: , 233-135-0; Listed

EU. Directive 2012/18/EU (SEVESO III) Annex I : ; The substance/mixture does not fall under this legislation.

WGK (DE) : WGK 1: slightly water endangering: 486; Classification source

WaterJems Multifunctional Chlorine Tablets (Boric Free)

is Annex 2.

Component:	copper sulphate pentahydrate	CAS-No. 7758-99-8
-------------------	-------------------------------------	--------------------------

EU. Regulation No 1451/2007 [Biocides], Annex I, OJ (L 325)	:	EC Number: , 231-847-6; Listed
EU. Directive 2012/18/EU (SEVESO III) Annex I	:	Lower-tier requirements: 100 tonnes; Part 1: Categories of dangerous substances; E1: Hazardous to the Aquatic Environment in Category Acute 1 or Chronic 1 Upper-tier requirements: 200 tonnes; Part 1: Categories of dangerous substances; E1: Hazardous to the Aquatic Environment in Category Acute 1 or Chronic 1
UK. Releases to air and water (UK ISR)	:	Annual reporting level threshold: 10 kg
UK. Releases to air and water (UK ISR)	:	Annual reporting level threshold: 20.0 kg
UK. Releases to air and water (UK ISR)	:	Annual reporting level threshold: 20.0 kg
WGK (DE)	:	WGK 2: water endangering: 141; Classification source is Annex 2. WGK 3: highly water endangering: 141; Second classification is a KBwS decision.

15.2. Chemical safety assessment

no data available

SECTION 16: Other information

Full text of H-Statements referred to under sections 2 and 3.

H272	May intensify fire; oxidizer.
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.

Abbreviations and Acronyms

BCF	bioconcentration factor
BOD	biochemical oxygen demand

WaterJems Multifunctional Chlorine Tablets (Boric Free)

CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
CMR	carcinogenic, mutagenic or toxic to reproduction
COD	chemical oxygen demand
DNEL	derived no-effect level
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
GHS	Globally Harmonized System of Classification and Labelling of Chemicals
LC50	median lethal concentration
LOAEC	lowest observed adverse effect concentration
LOAEL	lowest observed adverse effect level
LOEL	lowest observed effect level
NLP	no-longer polymer
NOAEC	no observed adverse effect concentration
NOAEL	no observed adverse effect level
NOEC	no observed effect concentration
NOEL	no observed effect level
OECD	Organisation for Economic Cooperation and Development
OEL	occupational exposure limit
PBT	persistent, bioaccumulative and toxic
PNEC	predicted no-effect concentration
STOT	specific target organ toxicity
SVHC	substance of very high concern
UVCB	substance of unknown or variable composition, complex reaction products or biological materials
vPvB	very persistent and very bioaccumulative

Further information

- Key literature references and sources for data : Supplier information and data from the "Database of registered substances" of the European Chemicals Agency (ECHA) were used to create this safety data sheet.
- Methods used for product classification : The classification for human health, physical and chemical hazards and environmental hazards were derived from a combination of calculation methods and if available test data.
- Hints for trainings : The workers have to be trained regularly on the safe handling of the products based on the information provided in the Safety Data Sheet and the local conditions of the workplace. National regulations for the training of workers in the handling of hazardous materials must be adhered to.
- Other information : The information provided in this Safety Data Sheet is correct to our knowledge at the date of its revision. The information given only describes the products with regard to safety arrangements and is not to be considered as a warranty or quality

WaterJems Multifunctional Chlorine Tablets (Boric Free)

specification and does not constitute a legal relationship.
The information contained in this Safety Data Sheet relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

|| Indicates updated section.