

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1 Product identifier

**Trade name (s)** ChloroSan - Chlorine Releasing Tablets - 1.7g NaDCC with Detergent

Substance name	Index Number	CAS number	REACH Registration No
Mixture	N/A	N/A	N/A

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

Use of the Substance/Mixture	Chemical product for surface disinfection PT2. This product may be used as a Biocidal in accordance with EU Biocides Regulation 528/2012 (EU BPR) if the appropriate local authorisation/notification has been obtained, where applicable. Chlorine dioxide (CAS-No 10049-04-4) generated in situ from sodium chlorite by acidification and oxidation.
Exposure scenarios	There are no exposure scenarios currently available or required specifically for the product.
Uses advised against	This product is for use by professionals and trained personnel only.

### 1.3 Details of the supplier of the safety data sheet

<b>Company Name and Address</b>	<b>Telephone</b>	01573 226901
Scotmas Limited	<b>Fax</b>	01573 226026
Pinnaclehill Ind Est, Kelso, TD5 8DW, Scotland	<b>Email Address of Competent Person Responsible for the SDS</b>	sds@scotmas.com

### 1.4 Emergency telephone number

<b>Emergency telephone number</b>	01573 226901 - Not 24 hours
-----------------------------------	-----------------------------


## SECTION 2: HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

<b>Classification according to Regulation (EC) No 1272/2008</b>	
<b>Physical and chemical hazards</b> N/A	N/A
<b>Human health</b> Eye irritation, Category 2  Specific target organ - toxicity single exposure, Category 3, Respiratory system	H319: Causes serious eye irritation  H335: May cause respiratory irritation
<b>Potential environmental effects</b> Acute aquatic toxicity, Category 1 Chronic aquatic toxicity category 1	H400: Very toxic to aquatic life H410: Very toxic to aquatic life with long-lasting effects
<b>Other classifications</b>	
<b>Product at use DILLUTION</b>	
Chronic Aquatic toxicity, Category 3	H412: harmful to aquatic life with long lasting effects
<b>Most important adverse effects</b>	
Human health	Irritating to eyes. Risk of serious damage to eyes. Specific target organ single exposure. Category 3. Respiratory system. See section 11 for toxicological information.
Physical and chemical hazards	May give off toxic gas on contact with acids See section 9 for physiochemical information.
<b>Potential environmental effects</b>	Very toxic to aquatic life with long-lasting effects.  See section 12 for environmental information

## 2.2 Label elements

### Labelling according to Regulation (EC) No 1272/2008

Hazard Pictogram(s)		
Signal word(s)	<b>Warning</b>	
Hazard statement(s)	H319 H335 H410	Causes serious eye irritation. May cause respiratory irritation Very toxic to aquatic life with long lasting effects
Precautionary statement(s)		
Prevention	P273 P280e	Avoid release to the environment Wear eye protection/face protection
Response	P305+ P351+ P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Disposal	none	none
Other labelling information		
	EUH031	Contact with acid liberates toxic gas
Hazardous components must be listed on the on the label	Troclosene sodium	
<b>Product AT USE DILLUTION</b>		
Hazard statements	H412: Harmful to aquatic life with long lasting effects	
Precautionary statement(s)		
Prevention	P273: Avoid release to the environment	
<b>2.3. Other hazards</b>		
	Mixing this product with acid or ammonia release chlorine gas. Do not mix with bleach or other chlorinated products.  For Results of PBT and vPvB assessment see section 12.5	

## SECTION 3: COMPOSITIONAL INFORMATION ON INGREDIENTS

### 3.2. Mixtures

Chemical Nature		Solid		
Hazardous components		Amount [%]	Classification (REGULATION (EC) No 1272/2008)	
			Hazard class / Hazard category	Hazard statements
Trosclosene Sodium		>=50 - <=100	Ox Sol. 2 Acute Tox. Oral. 4 Eye Irrit.2 STOT SE3 Aquatic Acute. 1 Aquatic Chronic.1	H272 H302 H319 H335 H400 H410
Index No	N/A			
CAS No.	2893-78-9			
EC No.	220-767-7			
REACH Registration No	01-2119489371-33-0008			
Adipic Acid		>=20 - <25	Eye irrit. 2	H319
Index No	N/A			
CAS No.	124-04-9			
EC No.	204-673--3			
REACH Registration No				
Sodium Carbonate		>=5 - <10	Eye Irrit.2	H319
Index No	N/A			
CAS No.	497-19-8			
EC No.	207-838-8			
REACH Registration No	01-2119485498-19			
Sodium Dodecylbenzene Sulfonate		>=1 - <2.5	Acute Tox. 4 Skin Irrit. 2 Seri Eye Dam. 1	H302 H315 H318
Index No	N/A			
CAS No.	25155-30-0			
EC No.	246-680-4			
REACH Registration No				
Product AT USE DILLUTION				
Hazardous components		Amount [%]	Classification (REGULATION (EC) No 1272/2008)	
			Hazard class / Hazard category	Hazard statements
Trosclosene Sodium		>=0.5-<1	Ox Sol. 2 Acute Tox. Oral. 4 Eye Irrit.2 STOT SE3 Aquatic Acute. 1 Aquatic Chronic.1	H272 H302 H319 H335 H400 H410
Index No	N/A			
CAS No.	2893-78-9			
EC No.	220-767-7			
REACH Registration No	01-2119489371-33-0008			
For the full text of the H-Statements mentioned in this Section, see Section 16.				

## SECTION 4: FIRST AID MEASURES

<b>4.1. Description of first aid measures</b>	
<b>General advice</b>	
<b>Inhalation of Vapour</b>	Move to fresh air. Treat symptomatically. Get medical attention if symptoms occur.
<b>Eye contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention.
<b>Skin contact</b>	Rinse with plenty of water
<b>Ingestion</b>	Rinse mouth. Get medical attention if symptoms occur.
<b>Product AT USE DILUTION</b>	
<b>Inhalation of Vapour</b>	Get medical attention if symptoms occur.
<b>Eye contact</b>	Rinse with plenty of water.
<b>Skin contact</b>	Rinse with plenty of water.
<b>Ingestion</b>	Rinse mouth. Get medical attention if symptoms occur.
<b>4.2. Most important symptoms and effects, both acute and delayed</b>	
Symptoms	See Section 11 for more detailed information on health effects and symptoms
Effects	See Section 11 for more detailed information on health effects and symptoms
<b>4.3. Indication of any immediate medical attention and special treatment needed</b>	
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.
Unsuitable extinguishing media	None known.

**5.2. Special hazards arising from the substance or mixture**

Specific hazards during fire fighting	Exposure to decomposition products may be a hazard to health.
Hazardous combustion products	Decomposition products may include the following materials: Carbon oxides nitrogen oxides (NO <sub>x</sub> ) Sulphur oxides Oxides of phosphorus

**5.3. Advice for fire-fighters**

Special protective equipment for fire-fighters	Wear personal protective equipment.
Further information	Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. In the event of fire and/or explosion do not breathe fumes.

**SECTION 6: ACCIDENTAL RELEASE MEASURES****6.1. Personal precautions, protective equipment and emergency procedures**

Advice for non-emergency personnel	Ensure clean-up is conducted by trained personnel only. Refer to protective measures listed in sections 7 and 8.
Advice for emergency responders	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials.

**Product AT USE DILLUTION**

Advice for non-emergency personnel	Ensure clean-up is conducted by trained personnel only. Refer to protective measures listed in sections 7 and 8.
Advice for emergency responders	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials.

**6.2. Environmental precautions**

Environmental precautions	Do not allow contact with soil, surface or ground water.
---------------------------	--

**Product AT USE DILUTION**

Environmental precautions	Do not allow contact with soil, surface or ground water.
---------------------------	--

**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
---	---

**Product AT USE DILLUTION**

Methods and materials for containment and cleaning up	Stop leak if safe to do so. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway.
---	---

**6.4. Reference to other sections**

See Section 1 for emergency contact information.  
For personal protection see section 8.  
See Section 13 for additional waste treatment information.

<b>SECTION 7: HANDLING AND STORAGE</b>	
<b>7.1. Precautions for safe handling</b>	
Advice on safe handling	Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapours/spray. Use only with adequate ventilation. Wash hands thoroughly after handling. Mixing this product with acid or ammonia releases chlorine gas. Do not mix with bleach or other chlorinated products – will cause chlorine gas.
Hygiene measures	Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. Wash face, hands and any exposed skin thoroughly after handling.
<b>Product AT USE DILUTION</b>	
Advice on safe handling	Use only with adequate ventilation. Wash hands thoroughly after handling.
Hygiene measures	Handle in accordance with good industrial hygiene and safety practices. Remove and wash contaminated clothing before re-use. Wash face, hands and any exposed skin thoroughly after handling.
<b>7.2. Conditions for safe storage, including any incompatibilities</b>	
Requirements for storage areas and containers	Keep out of reach of children. Keep container tightly closed. Store in suitable labelled containers. Never allow product to get in contact with water during storage
Advice on protection against fire and explosion	No specific advice
Advice on common storage	Do not store near acids.
Storage Temperature	0 °C to 50 °C
<b>Product AT USE DILUTION</b>	
Requirements for storage areas and containers	Keep out of reach of children. Keep container tightly closed. Store in suitable labelled containers.
<b>7.3. Specific end use(s)</b>	
Specific use(s)	The identified uses for this product are detailed in Section 1.2.



**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION****8.1. Control parameters****Component: Sodium Carbonate CAS-No 497-19-8****Derived No Effect Level (DNEL)/Derived Minimal Effect Level (DMEL)**

Type of Application (Use): Workers Exposure routes: Inhalation Health Effect: Long term local effects	10mg/m <sup>3</sup>
---	---------------------

Type of Application (Use): Consumers Exposure routes: Inhalation Health Effect: Acute local effects	10mg/m <sup>3</sup>
---	---------------------

**Component: Chlorine Gas CAS-No 497-19-8****Given of by the product before an after dilution Not an ingredient****Work place exposure limit (WEL)**

Short-term exposure limit (15-minute reference period)	0.5ppm 1.5mg/m <sup>3</sup>
--	-----------------------------

**8.2 Exposure Controls****Appropriate engineering controls**

Engineering Measures	Effective exhaust ventilation system. Maintain air concentrations below occupational exposure standards.
----------------------	--

**Respiratory protection (EN 143, 14387)**

Advice	When respiratory risks cannot be avoided or sufficiently limited by technical means of collective protection or by measures, methods or procedures of work organization, consider the use of certified respiratory protection equipment meeting EU requirements (89/656/EEC, 89/686/EEC), or equivalent, with filter type:P
--------	---

**Hand protection (EN374)**

Advice	No special protective equipment required.
--------	---

**Eye/face protection (EN166)**

Advice	Safety glasses with side-shields
--------	----------------------------------

**Skin and body protection (EN14605)**

Advice	No special protective equipment required.
--------	---

**Hygiene measures**

Advice	Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. Wash face, hands and any exposed skin thoroughly after handling.
--------	--

<b>Product AT USE DILUTION</b>	
<b>Appropriate engineering controls</b>	
Engineering Measures	Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
<b>Respiratory protection (EN 143, 14387)</b>	
Advice	None required if airborne concentrations are maintained below the exposure limit listed in Exposure Limit Information. Use certified respiratory protection equipment meeting EU requirements(89/656/EEC, 89/686/EEC ), or equivalent, when respiratory risks cannot be avoided or sufficiently limited by technical means of collective protection or by measures, methods or procedures of work organization.
<b>Hand protection (EN374)</b>	
Advice	No special protective equipment required.
<b>Eye/face protection (EN166)</b>	
Advice	No special protective equipment required.
<b>Skin and body protection (EN14605)</b>	
Advice	No special protective equipment required.
<b>Hygiene measures</b>	
Advice	Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. Wash face, hands and any exposed skin thoroughly after handling.
<b>Environmental exposure controls</b>	
General Advice	Consider the provision of containment around storage vessels.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES****9.1. Information on basic physical and chemical properties**

Form	Solid/Tablet	Colour	White
Odour	Chlorine	Vapour pressure	Not applicable
Odour Threshold	N/A	Relative vapour density	Not applicable
pH	5.0-6.0	Relative Density	Not applicable
Melting Point/ Freezing Point	Not applicable	Water solubility	Soluble
Initial Boiling Point and boiling range	Not applicable	Partition coefficient: n-octanol/water	Not applicable
Flash point	Not applicable	Auto ignition temperature	Not applicable
Evaporation rate	Not applicable	Decomposition temperature	Not applicable
Flammability (solid gas)	Not applicable	Viscosity dynamic	Not applicable
Upper explosion limit	Not applicable	Explosive properties	Not applicable
Lower explosion limit	Not applicable	Oxidising properties	Oxidising

**Product AT USE DILUTION**

Form	Liquid	Colour	Natural Colour
Odour	Slight Chlorine	pH	5.5-6.5

**9.2 Other information**

None

<b>SECTION 10: STABILITY AND REACTIVITY</b>	
<b>10.1 Reactivity</b>	
Advice	No dangerous reaction known under conditions of normal use.
<b>10.2 Chemical stability</b>	
Advice	Stable under normal conditions.
<b>10.3 Possibility of hazardous reaction</b>	
Hazardous reactions	Mixing this product with acid or ammonia releases chlorine gas. Do not mix with bleach or other chlorinated products – will cause chlorine gas.
<b>10.4 Conditions to avoid</b>	
Conditions to avoid	None known
<b>10.5 Incompatible materials</b>	
Materials to avoid	Acids
<b>10.6 Hazardous decomposition products</b>	
Hazardous decomposition products	Decomposition products may include the following materials: Carbon oxides nitrogen oxides (NO <sub>x</sub> ) Sulphur oxides Oxides of phosphorus

<b>SECTION 11: TOXICOLOGICAL INFORMATION</b>	
<b>11.1 Information on toxicological effects</b>	
<b>Information on Product: ChloroSan Tablets</b>	
<b>Acute toxicity</b>	
<b>Oral</b>	Acute toxicity estimate : > 2,000 mg/kg
<b>Inhalation</b>	Please find this information in the listing of the component/components below in this MSDS
<b>Dermal</b>	Please find this information in the listing of the component/components below in this MSDS
<b>Irritation</b>	
<b>Skin Result</b>	Please find this information in the listing of the component/components below in this MSDS
<b>Eyes Result</b>	Please find this information in the listing of the component/components below in this MSDS
<b>Sensitisation</b>	
<b>Result</b>	Please find this information in the listing of the component/components below in this MSDS
<b>CMR effects</b>	
<b>Carcinogenicity</b>	Please find this information in the listing of the component/components below in this MSDS
<b>Mutagenicity</b>	Please find this information in the listing of the component/components below in this MSDS
<b>Teratogenicity</b>	Please find this information in the listing of the component/components below in this MSDS
<b>Reproductive toxicity</b>	Please find this information in the listing of the component/components below in this MSDS
<b>Specific target organ toxicity</b>	
<b>Single exposure</b>	
<b>Remark</b>	Please find this information in the listing of the component/components below in this MSDS
<b>Repeated exposure</b>	
<b>Remark</b>	Please find this information in the listing of the component/components below in this MSDS
<b>Other toxic properties</b>	
<b>Aspiration risk</b>	
<b>Remark</b>	

<b>Information on components - Troclosen Sodium CAS-No 2893-78-9</b>	
<b>Acute toxicity</b>	
<b>Acute oral</b>	LD50 rat: 1,500 mg/kg
<b>Inhalation</b>	Rat OECD 403 Acute toxicity inhalation (LC50 dust/mist mg/l) 0.27 Gas or vapour in high concentrations may irritate the respiratory system. Symptoms following overexposure may include the following: Coughing.
<b>Dermal</b>	LD50 rabbit: > 10,000 mg/kg
<b>Irritation</b>	
<b>Skin Result</b>	Product has a defatting effect on skin. May cause allergic contact eczema. Irritating to skin. Acute toxicity dermal (LD50 mg/kg) 5000
<b>Eyes Result</b>	Irritating to eyes. Symptoms following overexposure may include the following: Redness. Pain.
<b>Sensitisation</b>	
<b>Result</b>	No data available
<b>CMR effects</b>	
<b>Carcinogenicity</b>	No data available
<b>Mutagenicity</b>	No data available
<b>Teratogenicity</b>	No data available
<b>Reproductive toxicity</b>	No data available
<b>Specific target organ toxicity</b>	
<b>Single exposure</b>	
Remark	No data available
<b>Repeated exposure</b>	
Remark	No data available
<b>Other toxic properties</b>	
<b>Aspiration risk</b>	
Remark	No data available
<b>Human experience</b>	
<b>Inhalation</b> Respiratory irritation, Cough <b>Skin contact</b> No data available <b>Eye contact</b> Redness, Pain, Irritation <b>Ingestion</b> No data available	

<b>Information on components - Adipic Acid CAS-No. 124-04-9</b>	
<b>Acute toxicity</b>	
<b>Acute oral</b>	LD50 rat: 5,560 mg/kg
<b>Inhalation</b>	4 h LC50 rat: 7.7 mg/l
<b>Dermal</b>	LD50 rabbit: 7,940 mg/kg
<b>Irritation</b>	
<b>Skin Result</b>	Skin - Rabbit Result: No skin irritation (OECD Test Guideline 404)
<b>Eyes Result</b>	Eyes - Rabbit Result: Severe irritations - 24 h (OECD Test Guideline 405)
<b>Sensitisation</b>	
<b>Result</b>	Maximisation Test - Guinea pig Result: negative Remarks: (External MSDS)
<b>CMR effects</b>	
<b>Carcinogenicity</b>	No component of this product present at levels greater than or equal to 0.1% identified as probable, possible or confirmed human carcinogen by IARC.
<b>Mutagenicity</b>	Ames test Escherichia coli/Salmonella typhimurium Result: negative In vitro mammalian cell gene mutation test Chinese hamster lung cells Result: negative
<b>Teratogenicity</b>	No data available
<b>Reproductive toxicity</b>	No data available
<b>Specific target organ toxicity</b>	
<b>Single exposure</b>	
Remark	No data available
<b>Repeated exposure</b>	
Remark	No data available
<b>Other toxic properties</b>	
<b>Aspiration risk</b>	
Remark	No data available
<b>Human experience</b>	
Excessive exposures may affect human health, as follows: <b>Inhalation</b> No data available <b>Skin contact</b> No data available <b>Eye contact</b> Severe irritation <b>Ingestion</b> No data available	

<b>Information on components – Sodium Carbonate CAS-No. 497-19-8</b>	
<b>Acute toxicity</b>	
<b>Acute oral</b>	LD50 rat: 2,800 mg/kg
<b>Inhalation</b>	No data available
<b>Dermal</b>	No data available
<b>Irritation</b>	
<b>Skin</b> Result	Skin - Rabbit Result: Mild skin irritation - 24 h
<b>Eyes</b> Result	Eyes - Rabbit Result: Eye irritation - 24 h
<b>Sensitisation</b>	
<b>Result</b>	No data available
<b>CMR effects</b>	
<b>Carcinogenicity</b>	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC
<b>Mutagenicity</b>	No data available
<b>Teratogenicity</b>	No data available
<b>Reproductive toxicity</b>	No data available
<b>Specific target organ toxicity</b>	
<b>Single exposure</b>	
No available data	
<b>Repeated exposure</b>	
No available data	
<b>Other toxic properties</b>	
<b>Aspiration risk</b>	
<b>Remark</b>	No data available
<b>Human experience</b>	
Excessive exposures may affect human health, as follows: <b>Inhalation</b> No data available <b>Skin contact</b> No data available <b>Eye contact</b> Severe irritation <b>Ingestion</b> No data available	



<b>Information on components -Sodium Dodecylbenzene Sulfonate CAS-No. 25155-30-0</b>	
<b>Acute toxicity</b>	
<b>Acute oral</b>	LD50 rat: 1,086 mg/kg
<b>Inhalation</b>	LD50 rat: > 2000 mg/kg
<b>Dermal</b>	LD50 rat: > 2000 mg/kg
<b>Irritation</b>	
<b>Skin</b> Result	Corrosive effects (rabbit)
<b>Eyes</b> Result	Corrosive no specific data
<b>Sensitisation</b>	
<b>Result</b>	No data available
<b>CMR effects</b>	
<b>Carcinogenicity</b>	No data available
<b>Mutagenicity</b>	No data available
<b>Teratogenicity</b>	No data available
<b>Reproductive toxicity</b>	No data available
<b>Specific target organ toxicity</b>	
<b>Single exposure</b>	
Remark	No data available
<b>Repeated exposure</b>	
Remark	No data available
<b>Other toxic properties</b>	
<b>Aspiration risk</b>	
Remark	
<b>Human experience</b>	
Excessive exposures may affect human health, as follows:	
<b>Inhalation</b> There may be irritation of the throat with a feeling of tightness in the chest.	
<b>Skin contact</b> There may be irritation and redness at the site of contact. There may be redness or whiteness of the skin in the area of exposure.	
<b>Eye contact</b> There may be irritation and redness. The eyes may water profusely. There may be severe pain. Corneal burns may occur. May cause permanent damage.	
<b>Ingestion</b> Nausea and stomach pain may occur. There may be vomiting. There may be loss of consciousness.	

<b>SECTION 12: ECOLOGICAL INFORMATION</b>	
<b>12.1 Toxicity</b>	
<b>Information on product:</b>	<b>Chlorine Tablets</b>
Acute toxicity	
<b>Fish</b>	No product specific data. See information on components
<b>Toxicity to Daphnia and other invertebrates</b>	No product specific data. See information on components
<b>Algae</b>	No product specific data. See information on components
<b>Product classification</b>	Very toxic to aquatic life with long lasting effects.
<b>Information on components - Troclosen sodium CAS-No. 2893-78-9</b>	
Acute toxicity	
<b>Fish</b>	LC50 - Lepomis macrochirus (Bluegill) - 0.283 mg/l - 96 h
<b>Toxicity to Daphnia and other invertebrates</b>	EC50 - Daphnia magna (Water flea) - 0.15 mg/l - 48 h
<b>Algae</b>	No data
<b>Information on components - Sodium Carbonate CAS-No. 497-19-8</b>	
Acute toxicity	
<b>Fish</b>	96 h LC50 Lepomis macrochirus (Bluegill sunfish): 300 mg/l
<b>Toxicity to Daphnia and other invertebrates</b>	48 h EC50 Ceriodaphnia (water flea): 265mg/l
<b>Algae</b>	No data
<b>Information on components - Sodium dodecylbenzene sulfonate CAS-No. 25155-30-0</b>	
Acute toxicity	
<b>Fish</b>	96H LC50 1-10 mg/l
<b>Toxicity to Daphnia and other invertebrates</b>	48H EC50 1-10 mg/l
<b>Algae</b>	72H ErC50 10-100 mg/l
<b>Information on components – Adipic Acid CAS-No. 124-04-9</b>	
Acute toxicity	
<b>Fish</b>	LC50 230 mg/l (Leuciscus idus) (Golden orfe); 96 h) (static test; DIN 38412 > 1000 mg/l (Danio rerio (zebra fish); 96 h) (static test)
<b>Toxicity to Daphnia and other invertebrates</b>	LC50 46 mg/l (Daphnia magna; 48 h) (OECD Test Guideline 202 EC50 185.7 mg/l (Daphnia magna; 48 h) (static test; Directive 67/548/EEC, Annex V, C.2.)
<b>Algae</b>	EC50 39.8 mg/l (Desmodesmus subspicatus (green algae); 72 h) (static test; End point: Growth rate; DIN 38412) EC50 59 mg/l (Pseudokirchneriella subcapitata (green algae); 72 h) (static test; End point: Growth rate; OECD Test Guideline 201)

<b>12.2 Persistence and Degradability</b>	
<b>Information on Product:</b>	
<b>Biodegradability</b>	
<b>Result</b>	The active ingredient Troclosene sodium is poorly biodegradable The surfactants contained in the product are biodegradable according to the requirements of the detergent regulation 648/2004/EC
<b>Information on components – troclosene sodium CAS-No. 2893-78-9</b>	
<b>Biodegradability</b>	
<b>Result</b>	Poorly biodegradable
<b>Information on components – Adipic Acid CAS-No. 124-04-9</b>	
<b>Biodegradability</b>	
<b>Result</b>	Readily biodegradable
<b>Information on components – Sodium Carbonate CAS-No. 497-19-8</b>	
<b>Biodegradability</b>	
<b>Result</b>	Not applicable - inorganic
<b>Information on Components: Sodium dodecylbenzene sulfonate CAS-No. 25155-30-0</b>	
<b>Biodegradability</b>	
<b>Result</b>	Readily biodegradable surfactant Complies with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents.
<b>12.3 Bioaccumulation Potential</b>	
<b>Information on Product – Chlorine Tablets</b>	
<b>Bioaccumulation</b>	
<b>Result</b>	No data available

<b>12.4 Mobility in soil</b>	
<b>Information on product:</b>	Chlorine Tablets
<b>Mobility</b>	
<b>Soil</b>	No data available

<b>12.5 Results of PBT and vPvB assessment</b>	
<b>Information on product:</b> Chlorine Tablets	
<b>Results of PBT and vPvB assessment</b>	
<b>Result</b>	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.
<b>12.6 Other adverse effects</b>	
<b>Additional ecological information</b>	
No data available	

**SECTION 13: DISPOSAL CONSIDERATION****13.1 Waste treatment methods**

<b>Product</b>	<p>The product should not be allowed to enter drains, water courses or the soil.</p> <p>Where possible recycling is preferred to disposal or incineration.</p> <p>If recycling is not practicable, dispose of in compliance with local regulations.</p> <p>Dispose of wastes in an approved waste disposal facility.</p>
<b>Contaminated packaging</b>	<p>Dispose of as unused product.</p> <p>Empty containers should be taken to an approved waste handling site for recycling or disposal.</p> <p>Do not re-use empty containers.</p> <p>Dispose of in accordance with local, state, and federal regulations.</p>
<b>Guidance for Waste Code selection</b>	<p>Organic wastes containing dangerous substances.</p> <p>If this product is used in any further processes, the final user must redefine and assign the most appropriate European Waste Catalogue Code. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable European (EU Directive 2008/98/EC) and local regulations.</p>
<b>Product AT USE DILUTION</b>	
<b>Product</b>	<p>The product should not be allowed to enter drains, water courses or the soil. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an approved waste disposal facility.</p>
<b>Contaminated Packaging</b>	<p>Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers. Dispose of in accordance with local, state, and federal regulations.</p>

<b>SECTION 14: TRANSPORT INFORMATION</b>	
<b>14.1 UN Number</b>	
<b>UN3077</b>	
<b>14.2 Proper shipping name</b>	
ADR	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (troclosene sodium)
ADN	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (troclosene sodium)
RID	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (troclosene sodium)
IMDG	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (troclosene sodium)
IATA	Environmentally hazardous substance, solid, n.o.s. (troclosene sodium)
<b>14.3 transport hazard class(es)</b>	
ADR (Labels, Classification code, Hazard Identification No., Tunnel restriction code)	9
RID (Labels, Classification code, Hazard Identification No.)	9
IMDG (Labels EmS)	9
IATA	9
<b>14.4 Packing Group</b>	
ADR	PG III
ADN	PG III
RID	PG III
IMDG	PG III
IATA	PG III
<b>14.5 Environmental Hazards</b>	
ADR Labeling according to 5.2.1.8	Yes

ADN Labeling according to 5.2.1.8	Yes
RID Labeling according to 5.2.1.8	Yes
IMDG Labeling according to 5.2.1.6.3	Yes
IMDG Classification as environmentally hazardous according to 2.9.3	Yes
IATA	Yes
<b>14.6 Special precautions for user</b>	
Not applicable	None
<b>14.7 Transport in Bulk according to annex II/MARPOL 73/78 and the IBC code</b>	
IMDG	Not applicable

## SECTION 15: REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

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

#### According to Detergents Regulation EC 648/2004

30 % and more: Chlorine-based bleaching agents less than 5 %: Anionic surfactants

Contains: Disinfectants

#### Biocidal Product Regulations (EU) No. 528/2012

No authorisations or exemptions are currently required for placing the product on the market in the EU.

Notifications are required in some EU countries.

The product has been notified to the following member states competent authorities or can otherwise be placed on the market in the countries as indicated below.

United Kingdom: Notifications are not required in the UK

#### Other EU Directives:

Dangerous preparations directive (67/548/EEC) (1999/45/EC)

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

Biocidal Product Regulation (BPR, Regulation (EU) 528/2012)

REACH directive(2004/58/EC)

CLP regulations (2008/1272/EC)

<b>National Regulations</b>	
<b>Take note of Dir 94/33/EC on the protection of young people at work.</b>	
Other Regulations	The Chemicals (Hazard Information and Packaging for Supply) Regulations. The Control of Substances Hazardous to Health Regulations. Health and Safety at Work Act.
<b>15.2 Chemical safety assessment</b>	
This product contains substances for which Chemical Safety Assessments are still required.	

**SECTION 16: OTHER INFORMATION**



Issue information	
First issued 07/05/2020 Authorised by K Ferguson	Issue 2 08/02/2021 Authorised by K Ferguson
Significant changes at this revision	
Clarification of exact trade name	
Full text of H- phrases for ingredients in section 2 and 3	
<p>H272: May intensify fire; oxidiser.</p> <p>H302: Harmful if swallowed.</p> <p>H319: Causes serious eye irritation.</p> <p>H335: May cause respiratory irritation.</p> <p>H400: Very toxic to aquatic life.</p> <p>H410: Very toxic to aquatic life with long lasting effects.</p>	
<p>Since the users working conditions are not known by us, the information on this safety data sheets is based on our current level of knowledge and on national and community regulations</p> <p>The product must not be used for any purpose other than those specified without first obtaining written handling instructions</p> <p>It is at all times the responsibility of the user to take all necessary measures to comply with legal requirement and local regulations.</p> <p>The information given on this data sheet must be regarded as relating to the safety requirements relating to our products and not a guarantee of its properties</p> <p>Observe all National, Federal and Local laws / Bylaws with regard to the use of this product. Always check with relevant regulatory authorities before use</p> <p style="text-align: center;"><b><u>Disclaimer</u></b></p> <p>Information on this form is furnished in compliance with current legislation. It is the responsibility of the recipient to pass on this information to relevant departments/persons involved. Scotmas Limited assumes no responsibility for injury or death resulting from the use/misuse of this product by the recipient and/or third persons, however caused. The user, bailee and their respective employees and agents assume all such risks if reasonable safety procedures are not adhered to.</p>	