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Section 1: Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product identifier

Trade Names

ChloroSan - Environmental Disinfection Chlorine Releasing Granules 50%

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 Chemical product for detergent free surface disinfection PT2.

Substance/Mixture 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.

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

Company Name and AddressTelephone01573 226901Scotmas LimitedFax01573 226026

Solomon Way Email Address of

Pinnaclehill Ind Est, Kelso, Competent Person sds@scotmas.com

TD5 8DW, Scotland Responsible for the SDS

1.4 Emergency telephone number

Emergency telephone number 01573 226901 - Not 24 hours

Section 2: Hazards Identification			
2.1 Classification of the substance or mixture			
Classification according to Regulation (EC) No 1272/2008			
Physical and chemical hazards N/A		N/A	
Human health		IN/A	
Eye irritation, Category 2		H319: Causes serious eye irritation	
Specific target organ - toxicity exposure, Category 3, Respira	•	H335: May cause respiratory irritation	
Potential environmental effects 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	
Other classifications			
Most important adverse effect	cts		
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	May give off toxic gas on contact with acids		
hazards	See section 9 for physiochemical information.		
Potential environmental effects	Very toxic to aquatic life with long-lasting effects.		
	See section 12 fo	or environmental information	

2.2 Label elements			
Labelling according to Regulation (EC) No 1272/2008			
Hazard Pictogram(s)	$\langle \! $		
Signal word(s)	Warning		
Hazard statement(s)	H319	Causes serious eye irritation.	
	H335	May cause respiratory irritation	
	H410	Very toxic to aquatic life with long lasting effects	
Precautionary stateme	ent(s)		
Prevention	P273	Avoid release to the environment	
	P280e	Wear eye protection/face protection	
Response	P305+	IF IN EYES: Rinse cautiously with water for several minutes.	
	P351+	Remove contact lenses, if present and easy to do. Continue	
	P338	rinsing.	
Disposal	none	none	
Other labelling inform	Other labelling information		
	EUH031	Contact with acid liberates toxic gas	
Hazardous	Troclosene sodium		
components must			
be listed on the on			
the label			
2.3. Other hazards			
	Mixing thi	s product with acid or ammonia release chlorine gas. Do not mix	
	with blead	ch or other chlorinated products.	
	For Result	s of PBT and vPvB assessment see section 12.5	

3.2. Mixtures				
Chemical Nature		Solid		
Hazardous components		Amount [%]	Classification (REGULATION (EC) No 1272/2008)	
			Hazard class / Hazard category	Hazard statements
Troclosene Sodium		>=50 -	Ox Sol. 2	H272
Index No	N/A	<=100	Acute Tox. Oral. 4	H302
CAS No.	2893-78-9		Eye Irrit.2	H319
EC No.	220-767-7		STOT SE3	H335
REACH	01-2119489371-33-		Aquatic Acute. 1	H400
Registration No	0008		Aquatic Chronic.1	H410

SECTION 4: FIRST AI	D MEASURES
4.1. Description of f	irst aid measures
General advice	
Inhalation of	Move to fresh air.
Vapour	Treat symptomatically.
	Get medical attention if symptoms occur.
Eye contact	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.
Skin contact	Rinse with plenty of water
Ingestion	Rinse mouth.
	Get medical attention if symptoms occur.
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	See Section 11 for more detailed information on health effects and
	symptoms
4.3. Indication of an	y 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.	
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 (NOx) 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.		
6.2. Environmental preca	utions		
Environmental precautions	Do not allow contact with soil, surface or ground water.		
6.3. Methods and materia	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		
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.			

Section 7: Handling an	D STORAGE	
7.1. Precautions for safe handling		
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.	

7.2. Conditions for safe st	corage, including any incompatibilities
Requirements for	Keep out of reach of children.
storage areas and	Keep container tightly closed.
containers	Store in suitable labelled containers.
	Never allow product to get in contact with water during storage
Advice on protection	No specific advice
against fire and	
explosion	
Advice on common	Do not store near acids.
storage	
Storage Temperature	0 °C to 50 °C
7.3. Specific end use(s)	
Specific use(s)	The identified uses for this product are detailed in Section 1.2.

Section 8: Exposure Controls/Personal Pro	TECTION
8.1. Control parameters	
Component: Sodium Carbonate CAS-No 497-19-8	3
Derived No Effect Level (DNEL)/Derived Minimal	Effect Level (DMEL)
Type of Application (Use): Workers	10mg/m³
Exposure routes: Inhalation	
Health Effect: Long term local effects	
Type of Application (Use): Consumers	10mg/m³
Exposure routes: Inhalation	
Health Effect: Acute local effects	
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 ³

8.2 Exposure Con	trols
Appropriate engi	neering controls
Engineering	Effective exhaust ventilation system. Maintain air concentrations below
Measures	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

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	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 (EN3	374)
Advice	No special protective equipment required.
Eye/face protection (EN166)
Advice	Safety glasses with side-shields
Skin and body protec	ion (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.
Environmental expos	ure controls
General Advice	Consider the provision of containment around storage vessels.

SECTION 9: PHYSICAL A	AND CHEMICAL PROPE	ERTIES	
9.1. Information on basic physical and chemical properties			
Form	Solid/granule s	Colour	White
Odour	Chlorine	Vapour pressure	Not applicable
Odour Threshold	N/A	Relative vapour density	Not applicable
рН	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
9.2 Other information			
None			

Section 10: Stability and Reactivity		
10.1 Reactivity		
Advice	No dangerous reaction known under conditions of normal use.	
10.2 Chemical stability		
Advice	Stable under normal conditions.	
10.3 Possibility of hazardous	reaction	
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.	
10.4 Conditions to avoid		
Conditions to avoid	None known	
10.5 Incompatible materials		
Materials to avoid	Acids	
10.6 Hazardous decomposition products		
Hazardous decomposition products	Decomposition products may include the following materials: Carbon oxides nitrogen oxides (NOx) Sulphur oxides Oxides of phosphorus	

Section 11: Toxicological information		
11.1 Information on toxi	icological effects	
Information on Product:	Chlorosan Granules	
	Acute toxicity	
Oral	Acute toxicity estimate : > 2,000 mg/kg	
Inhalation	Please find this information in the listing of the component/components below in this MSDS	
Dermal	Please find this information in the listing of the component/components below in this MSDS	
	Irritation	
Skin	Please find this information in the listing of the	
Result	component/components below in this MSDS	
Eyes	Please find this information in the listing of the	
Result	component/components below in this MSDS	
Sensitisation		
Result	Please find this information in the listing of the component/components below in this MSDS	
CMR effects		

Carcinogenicity	Please find this information in the listing of the	
	component/components below in this MSDS	
Mutagenicity	Please find this information in the listing of the	
	component/components below in this MSDS	
Teratogenicity	Please find this information in the listing of the	
	component/components below in this MSDS	
Reproductive	Please find this information in the listing of the	
toxicity	component/components below in this MSDS	
	Specific target organ toxicity	
Single exposure		
Remark	Please find this information in the listing of the	
	component/components below in this MSDS	
Repeated exposure		
Remark	Please find this information in the listing of the	
	component/components below in this MSDS	
Other toxic properties		
Aspiration risk		
Remark		

Information on compor	ents - Troclosene Sodium CAS-No 2893-78-9		
	Acute toxicity		
Acute oral	LD50 rat: 1,500 mg/kg		
Inhalation	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.		
Dermal	LD50 rabbit: > 10,000 mg/kg		
	Irritation		
Skin Result	Product has a defatting effect on skin. May cause allergic contact eczema. Irritating to skin.		
	Acute toxicity dermal (LD50 mg/kg) 5000		
Eyes Result	Irritating to eyes. Symptoms following overexposure may include the following: Redness. Pain.		
	Sensitisation		
Result	No data available		
	CMR effects		
Carcinogenicity	No data available		
Mutagenicity	No data available		
Teratogenicity	No data available		
Reproductive toxicity	No data available		
	Specific target organ toxicity		
Single exposure			
Remark	No data available		
Repeated exposure			
Remark	No data available		
	Other toxic properties		
Aspiration risk			
Remark	No data available		
Human experience			
Inhalation Respiratory irritation, Co Skin contact No data available Eye contact Redness, Pain, Irritation Ingestion			
No data available			

SECTION 12: ECOLOGICAL INFORMATION			
12.1 Toxicity	12.1 Toxicity		
Information on product:	Chlorine Granules		
	Acute toxicity		
Fish	No product specific data. See information on components		
Toxicity to Daphnia and other invertebrates	No product specific data. See information on components		
Algae	No product specific data. See information on components		
Product classification	Very toxic to aquatic life with long lasting effects.		
Information on components - Troclosene sodium CAS-No. 2893-78-9			
Acute toxicity			
Fish	LC50 - Lepomis macrochirus (Bluegill) - 0.283 mg/l - 96 h		
Toxicity to Daphnia and other invertebrates	EC50 - Daphnia magna (Water flea) - 0.15 mg/l - 48 h		
Algae	No data		

12.2 Persistance and Degradability			
Information on Product:	Information on Product:		
	Biodegradability		
Result	The active ingredient Troclsene sodium is poorly biodegradable		
	The surfactants contained in the product are biodegradable		
	according to the requirements of the detergent regulation		
	648/2004/EC		
Information on components – t	roclosene sodium CAS-No. 2893-78-9		
	Biodegradability		
Result	Poorly biodegradable		
12.3 Bioaccumulation Potential			
Information on Product – Chlorine granules			
Bioaccumulation			
Result	No data available		

12.4 Mobility in soil			
Information on product: Chlorine granules			
	Mobility		
Soil	No data available		
12.5 Results of PBT and vPvB assessment			
Information on product: Ch	Information on product: Chlorine granules		
Results of PBT and vPvB assessr	nent		
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.		
12.6 Other adverse effects			
Additional ecological Information			
No data available			

SECTION 13: DISPOSA	Section 13: Disposal Consideration		
13.1 Waste treatmer	13.1 Waste treatment methods		
Product	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.		
Contaminated packaging	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.		
Guidance for Waste Code selection	Organic wastes containing dangerous substances. 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.		

Section 14: Transport Information		
14.1 UN Number		
UN3077		
14.2 Proper shipping name		
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)	
14.3 transport hazard class(es)		
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	
14.4 Packing Group		
ADR	PG III	
ADN	PG III	
RID	PG III	
IMDG	PG III	
IATA	PG III	
14.5 Environmental Hazards		
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	
14.6 Special precautions for user		
Not applicable	None	
14.7 Transport in Bulk according to annex II/MARPOL 73/78 and the IBC code		
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)

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National Regulations		
Take note of Dir 94/33/EC on the protection of young people at work.		
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.	
15.2 Chemical safety assessment		
This product contains substances for which Chemical Safety Assessments are still required.		

ChloroSan - Environmental Disinfection Chlorine Releasing Granules 50% NaDCC

Section 16: Other Information	
Issue information	
First issued 07/05/2020	Issue 3 08/02/2021
Authorised by Kevin Ferguson	Authorised by Kevin Ferguson

Significant changes at this revision

Issue 3 - Change and clarification of exact trade name(s)

Full text of H- phrases for ingredients in section 2 and 3

H272: May intensify fire; oxidiser.

H302: Harmful if swallowed.

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.

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

The product must not be used for any purpose other than those specified without first obtaining written handling instructions

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirement and local regulations.

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

Observe all National, Federal and Local laws / Bylaws with regard to the use of this product. Always check with relevant regulatory authorities before use

Disclaimer

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