

SAFETY DATA SHEET
CHEMECO 4 in 1 DISINFECTION TABLETS CE017

Compilation date: 04/07/2019 Revision No: 1

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

1.1 Product identifier

Trade name	Substance name	Index Number	CAS number	REACH Registration No
ChemEco 4 in 1 tablets	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	This product may be used as a Biocidal active substance in accordance with EU Biocides Regulation 528/2012 (EU BPR) if the appropriate local authorisation/notification has been obtained, where applicable. Chemical product for the water treatment and disinfection. 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. Only those for the main component (sodium chlorite) that are applicable to applications the product is intended for are included in Annex 1 of this data sheet.
Uses advised against	At this time we do not yet have information on advised against uses

1.3 Details of the supplier of the safety data sheet

Company Name and Address ChemEco UK Ltd 14 St Owens St, Hereford HR1 2PL	Telephone Email Address of Competent Person Responsible for the SDS	07933 386833 info@chemeco-uk.com
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1.4 Emergency telephone number

Emergency telephone number	07933 386833 - Not 24 hours
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SECTION 2: HAZARDS IDENTIFICATION	
2.1 Classification of the substance or mixture	
Classification according to Regulation (EC) No 1272/2008	
Physical and chemical hazards Oxide. Solid 2 Metal Corrosion cat 1	H272: May intensify fire; oxidiser H290: May be corrosive to Metals
Human health Acute Toxicity Category 4 Skin Corr. 1B Specific target organ single exposure. Category 3	H312: Harmful in contact with skin H314: Causes severe skin burns and eye damage H335: May cause Respiratory irritation
Potential environmental effects Chronic aquatic toxicity category 2	H411: Toxic to aquatic organisms with long lasting effects
Other classifications	EUH032 Contact with acid liberates very toxic gas
Most important adverse effects	
Human health	Harmful by skin contact. Irritating to eyes and skin. 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 chlorine dioxide gas on contact with acids, if heated or exposed to strong sunlight, which may cause explosion risk. Oxidiser. Contact with combustible materials may cause fire. Contact with reducing agent or sulphur containing substances may cause a violent exothermic reaction Corrosive to metals See section 9 for physiochemical information.
Potential environmental Effects	Chronic aquatic toxicity category 2 See section 12 for environmental information

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2.2 Label elements		
Labelling according to Regulation (EC) No 1272/2008 Hazard Pictogram(s)		
		
Signal word(s)	Danger	
Hazard statement(s)	H272 H290 H312 H314 H335 H411	May intensify fire; oxidiser May be corrosive to Metals Harmful in contact with skin Causes severe skin burns and eye damage May cause Respiratory irritation Toxic to aquatic organisms with long lasting effects
Precautionary statement(s)		
Prevention	P102	Keep out of reach of children
Response	P210 P221 P280 P312 P301 + P330 + P331 P303 + P361 + P353 P305 + P351 + P338	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take any precaution to avoid mixing with combustibles/other chemicals Wear protective gloves / protective clothing / eye protection / face protection Call a POISON CENTER or doctor/physician if you feel unwell. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting IF ON SKIN (or hair): Remove / Take off immediately all contaminated clothing. Rinse skin with water / shower 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		
	EUH032	Contact with acid liberates very toxic gas
Further information	none	
2.3. Other hazards		
	For Results of PBT and vPvB assessment see section 12.5	

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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
Sodium hydrogen sulphate		40-45%	Eye Irrit.1 H318
Index No	016-046-00-X		
CAS No.	7681-38-1		
EC No.	231-665-7		
REACH Registration No	01-2119552465-36-0000		
Sodium chlorite		8.95-9.95%	Ox Sol. 2 Acute Tox. Oral. 3 Acute Tox. Inh. 2 Acute Tox. Derm. 2 Skin Corr. 1B Acute Aq. Tox. 1 H272 H301 H310 + H330 H314 H400 EUH032
Index No	N/A		
CAS No.	7758-19-2		
EC No.	231-836-6		
REACH Registration No	01-2119529240-51-XXXX		
Hazardous components		Amount [%]	Classification (REGULATION (EC) No 1272/2008)
			Hazard class / Hazard category
Calcium di chloride		10-13%	Eye Irrit.2 H319
Index No	N/A		
CAS No.	10043-52-4		
EC No.	233-140-8		
REACH Registration No	01-2119494219-28-XXXX		
Troclosene sodium di hydrate (Sodium di chloro isocyanurate)		10-13%	Acute Tox. 4 Eye Irrit. 2 STOT SE 3 Aquatic Acute 1 Aquatic Chronic 1 H302 H319 H335 H400 H410 EUH031
Index No	N/A		
CAS No.	2893-78-9		
EC No.	220-767-7		
REACH Registration No	01-2119489371-33-0000		
Poly Aluminium Chloride		5.5-6.5%	Metal Corr. Eye Irrit. 2 H290 H319
Index No	N/A		
CAS No.	39290-78-3		
EC No.	254-400-7		
REACH Registration No	01-2119531540-51		
For the full text of the H-Statements mentioned in this Section, see Section 16.			

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SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General advice	Take off all contaminated clothing immediately. Never give anything by mouth to an unconscious person. When symptoms persist or in all cases of doubt seek medical advice.
Inhalation of Vapour	Move to fresh air. If not breathing, give artificial respiration. Call a poison control centre or doctor for treatment advice.
Eye contact	Rinse immediately with plenty of water and seek medical advice.
Skin contact	Take off contaminated clothing and shoes immediately. Wash off immediately with soap and plenty of water. Call a poison control centre or doctor for treatment advice.
Ingestion	Call a poison control centre or doctor for treatment advice. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.

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 any immediate medical attention and special treatment needed

Treatment	Treat symptomatically.
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SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media	Foam, Sand, Dry powder, Water spray The product itself does not burn. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable extinguishing media	Carbon dioxide (CO ₂)

5.2. Special hazards arising from the substance or mixture

Specific hazards during fire fighting	Hazardous decomposition products formed under fire conditions. Acrid fumes - Sodium oxides (see also section 10)
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5.3. Advice for fire-fighters

Special protective equipment for fire-fighters	In the event of fire, wear self-contained breathing apparatus. Wear personal protective equipment.
Further information	Evacuate personnel to safe areas. Evacuate personnel and keep upwind of fire. Keep containers and surroundings cool with water spray. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

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SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions	Evacuate personnel to safe areas. Wear personal protective equipment. Avoid contact with the skin and the eyes.
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6.2. Environmental precautions

Environmental precautions	Prevent material from entering sewers, waterways, or low areas. If the product contaminates rivers and lakes or drains inform respective authorities.
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6.3. Methods and materials for containment and cleaning up

Methods and materials for containment and cleaning up	Dilute with water. Pick up and transfer to properly labelled containers. After cleaning, flush away traces with water. Or where applicable absorb with liquid-binding non-combustible material (sand, diatomite, acid binders, and universal binders). Keep in suitable, closed containers for disposal. Flush away residuals with plenty of water.
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Further information	Treat recovered material as described in the section 13 "Disposal considerations".
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6.4. Reference to other sections

See Section 8 for information on personal protective equipment.
See Section 13 for waste treatment information.

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SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Advice on safe handling	Avoid contact with skin, eyes and clothing. Avoid formation of aerosol. Avoid inhalation of vapour or mist. Wear personal protective equipment. Use only in well-ventilated areas. Keep container tightly closed.
Hygiene measures	Keep away from food, drink and animal feeding stuffs. Smoking, eating and drinking should be prohibited in the application area. Wash hands before breaks and at the end of workday. Provide adequate ventilation. Avoid contact with the skin and the eyes.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers	Store in original container. Keep container tightly closed and stored in a dry, cool and well-ventilated place. Avoid heat, freezing and ultraviolet light.
Advice on protection against fire and explosion	Avoid heat.
Advice on common storage	Keep away from: Strong acids and oxidizing agents. Keep away from food, drink and animal feeding stuffs.

7.3. Specific end use(s)

Specific use(s)	No information available.
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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Component: Sodium hydrogen sulphate CAS-No 7681-38-1

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

Has no occupational exposure limit values

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

Has no occupational exposure limit values

Predicted No Effect Concentration (PNEC)

Has no occupational exposure limit values

Other Occupational Exposure Limit Values

Has no occupational exposure limit values

Component: Sodium chlorite CAS-No. 7758-19-2

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

Type of Application (Use): Workers Exposure routes: Skin contact Health Effect: Acute - systemic effects	0.58 mg/kg body weight (bw) /day
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Type of Application (Use): Workers Exposure routes: Skin contact Health Effect: Long-term - systemic effects	0.58 mg/kg body weight (bw) /day
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Type of Application (Use): Workers Exposure routes: Inhalation Health Effect: Acute - systemic effects	0.41 mg/m ³
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Derived No Effect Level (DNEL)/Derived Minimal Effect Level (DMEL) cont.

Type of Application (Use): Workers Exposure routes: Inhalation Health Effect: Long-term - systemic effects	0.41 mg/m ³
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Type of Application (Use): Consumers Exposure routes: Skin contact Health Effect: Acute - systemic effects	0.29 mg/kg body weight (bw) /day
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Type of Application (Use): Consumers Exposure routes: Inhalation Health Effect: Acute - systemic effects	0.1 mg/m ³
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Type of Application (Use): Consumers Exposure routes: Skin contact Health Effect: Long-term - systemic effects	0.29 mg/kg body weight (bw) /day
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Type of Application (Use): Consumers Exposure routes: Inhalation Health Effect: Long-term - systemic effects	0.1 mg/m ³
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Type of Application (Use): Consumers Exposure routes: Ingestion Health Effect: Long-term - systemic effects	0.029 mg/kg body weight (bw) /day
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Predicted No Effect Concentration (PNEC)	
Fresh water	0.00065 mg/l
Marine water	0.000065mg/l
Intermittent releases	0.000006 mg/l
Sewage treatment plant (STP)	1 mg/l
Other Occupational Exposure Limit Values	
EU ELV, Short Term Exposure Limit (STEL):	none
EH40 WEL, Time Weighted Average (TWA): Gas and aerosol mists.	none
EH40 WEL, Short Term Exposure Limit (STEL): Gas and aerosol mists.	none
ELV (IE), Time Weighted Average (TWA):	none
ELV (IE), Short Term Exposure Limit (STEL):	None
Component: Calcium chloride CAS-No. 10043-52-4	
Derived No Effect Level (DNEL)/Derived Minimal Effect Level (DMEL)	
Has no occupational exposure limit values	
Derived No Effect Level (DNEL)/Derived Minimal Effect Level (DMEL) cont.	
Has no occupational exposure limit values	
Predicted No Effect Concentration (PNEC)	
Has no occupational exposure limit values	
Other Occupational Exposure Limit Values	
Has no occupational exposure limit values	
Component: Troclosen sodium di hydrate CAS-No. 51580-86-0	
Derived No Effect Level (DNEL)/Derived Minimal Effect Level (DMEL)	
Has no occupational exposure limit values	
Derived No Effect Level (DNEL)/Derived Minimal Effect Level (DMEL) cont.	
Has no occupational exposure limit values	
Predicted No Effect Concentration (PNEC)	
Has no occupational exposure limit values	
Other Occupational Exposure Limit Values	
Has no occupational exposure limit values	

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Component: Poly aluminium chloride CAS-No. 39290-78-3
Derived No Effect Level (DNEL)/Derived Minimal Effect Level (DMEL)
Has no occupational exposure limit values
Derived No Effect Level (DNEL)/Derived Minimal Effect Level (DMEL) cont.
Has no occupational exposure limit values
Predicted No Effect Concentration (PNEC)
Has no occupational exposure limit values
Other Occupational Exposure Limit Values
2 mg/m ³ , 8-hour TWA (soluble Al salts) EH40/2005 Workplace exposure limits (UK Health and Safety Executive)

8.2 Exposure Controls	
Appropriate engineering controls	
Ensure adequate ventilation, especially in confined areas. Refer to protective measures listed in sections 7 and 8.	
Personal protective equipment	
Advice	Avoid exposure - obtain special instructions before use.
Respiratory protection	
Advice	Provide adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment.
Hand protection	
Advice	Impervious gloves <ul style="list-style-type: none"> • Material: Neoprene gloves • Material: Polyvinyl chloride - PVC
Eye protection	
Advice	Wear coverall chemical splash goggles. Additionally wear a face shield where the possibility exists for face contact due to splashing, spraying or airborne contact with this material.
Skin and body protection	
Advice	Where there is potential for skin contact, have available and wear as appropriate, impervious gloves, apron, pants, jacket, hood and boots.
Hygiene measures	
Advice	Avoid contact with skin, eyes and clothing. Wash hands before breaks and at the end of workday.
Environmental exposure controls	
General Advice	Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration. If the product contaminates rivers and lakes or drains inform respective authorities.

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Form	Solid	Colour	Off white
Odour	Slight chlorine	Vapour pressure	No data
Odour Threshold	No Data	Relative vapour density	No data available
pH	No data	Relative Density	1.5-1.7g/cm ³ (20°C)
Melting Point/ Freezing Point	No data	Water solubility	miscible
Initial Boiling Point and boiling range	Not applicable	Partition coefficient: n-octanol/water	No data available
Flash point	Not applicable	Auto ignition temperature	Not applicable
Evaporation rate	No data available	Decomposition temperature	Stable under normal conditions. Decomposes on heating.
Flammability (solid gas)	Not applicable	Viscosity dynamic	No data available
Upper explosion limit	Not applicable	Explosive properties	Product is not explosive
Lower explosion limit	Not applicable	Oxidising properties	The mixture has oxidizing properties

9.2 Other information

None

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SECTION 10: STABILITY AND REACTIVITY	
10.1 Reactivity	
Advice	Stable under recommended storage conditions. Decomposes on heating.
10.2 Chemical stability	
Advice	Stable under normal conditions. Decomposes on heating.
10.3 Possibility of hazardous reaction	
Hazardous reactions	Contact with water, acids, organic materials, reducing agents and oxidizing agents will release toxic gases of chlorine and/or chlorine dioxide.
10.4 Conditions to avoid	
Conditions to avoid	Stable under normal conditions. Decomposes on heating. Protect from atmospheric moisture.
Thermal decomposition	Decomposes on heating.
10.5 Incompatible materials	
Materials to avoid	Strong acids and oxidizing agents Reducing agents Organic materials Chlorinated compounds
10.6 Hazardous decomposition products	
Hazardous decomposition products	Chlorine Chlorine dioxide <i>Under fire conditions:</i> Oxygen Acrid fumes Sodium oxides

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SECTION 11: TOXICOLOGICAL INFORMATION	
11.1 Information on toxicological effects	
Information on Product: Eco Chem 3 in 1 Tablets	
Acute toxicity	
Oral	Please find this information in the listing of the component/components below in this MSDS
Inhalation	No data available
Dermal	Please find this information in the listing of the component/components below in this MSDS
Irritation	
Skin Result	Please find this information in the listing of the component/components below in this MSDS
Eyes Result	Please find this information in the listing of the 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 toxicity	Please find this information in the listing of the component/components below in this MSDS
Specific target organ toxicity	
Single exposure	
Remark	The substance or mixture is not classified as a specific target organ toxicant single exposure
Repeated exposure	
Remark	The substance or mixture is not classified as a specific target organ toxicant repeated exposure
Other toxic properties	
Aspiration risk	
Remark	No aspiration toxicity classification

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Information on components - Sodium hydrogen sulphate CAS-No 7681-38-1	
Acute toxicity	
Acute oral	No available data
Inhalation	No available data
Dermal	No available data
Irritation	
Skin Result	No available data
Eyes Result	Risk of serious damage to eyes
Sensitisation	
Result	No sensitising effect known.
CMR effects	
Carcinogenicity	No available data
Mutagenicity	No available data
Teratogenicity	No available data
Reproductive toxicity	No available data
Specific target organ toxicity	
Single exposure	
Remark	No available data
Repeated exposure	
Remark	No available data
Other toxic properties	
Aspiration risk	
Remark	No aspiration toxicity classification
Human experience	
Inhalation <i>Respiratory system:</i> Irritation Skin contact <i>Skin:</i> Irritation Eye contact <i>Eyes:</i> risk of serious eye damage Ingestion Nausea, Pain, Weakness, Vomiting	

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Information on components - Sodium chlorite CAS-No. 7758-19-2	
Acute toxicity	
Acute oral	LD 50 284mg/kg (rat)
Inhalation	No data
Dermal	LD 50 134 mg/kg (rabbit)
Irritation	
Skin Result	Corrosive effects (rabbit)
Eyes Result	Corrosive effects (rabbit). Risk of serious damage to eyes
Sensitisation	
Result	Not sensitising (guinea pig maximisation test)
CMR effects	
Carcinogenicity	Did not show carcinogenic effects in animal experiments
Mutagenicity	Did not show mutagenic effects
Teratogenicity	Did not show any developmental effects
Reproductive toxicity	Animal testing did not show any effects on fertility
Specific target organ toxicity	
Single exposure	
Remark	No data
Repeated exposure	
Remark	Oral Rat Exposure time: 1 y, Gastrointestinal effects, Abnormal decrease in number of red blood cells, Abnormal decrease in red – blood -cell haemoglobin (haemoglobinemia) Oral Monkey: altered haematology, altered blood chemistry
Other toxic properties	
Aspiration risk	
Remark	No aspiration toxicity classification
Human experience	
Excessive exposures may affect human health, as follows:	
Inhalation	
<i>Respiratory system:</i> Irritation, Cough	
Skin contact	
<i>Skin:</i> Discomfort, Irritation, Itching, Redness	
Eye contact	
<i>Eyes:</i> Excessive lachrymation, Damage	
Ingestion	
<i>Gastrointestinal tract:</i> Nausea, Pain, Weakness, Vomiting	

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Information on components - Calcium chloride CAS-No. 10043-52-4	
Acute toxicity	
Acute oral	LD 50 1000mg/kg (rat)
Inhalation	No data
Dermal	LD 50 2630 mg/kg (rat)
Irritation	
Skin Result	May cause skin irritation
Eyes Result	Irritating to eyes
Sensitisation	
Result	No available data
CMR effects	
Carcinogenicity	No available data
Mutagenicity	No available data
Teratogenicity	No available data
Reproductive toxicity	No available data
Specific target organ toxicity	
Single exposure	
No available data	
Repeated exposure	
No available data	
Other toxic properties	
Aspiration risk	
Remark	No aspiration toxicity classification
Human experience	
Excessive exposures may affect human health, as follows:	
Inhalation	
<i>Respiratory system:</i> Irritation	
Skin contact	
<i>Skin:</i> Irritation	
Eye contact	
<i>Eyes:</i> Irritation	
Ingestion	
<i>Gastrointestinal tract:</i> no information	

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Information on components -Troclosene sodium di hydrate CAS-No. 51580-86-0	
Acute toxicity	
Acute oral	No available data
Inhalation	No available data
Dermal	No available data
Irritation	
Skin Result	Corrosive effects (rabbit)
Eyes Result	Corrosive effects (rabbit) Risk of serious damage to eyes
Sensitisation	
Result	Not sensitising (guinea pig maximisation test)
CMR effects	
Carcinogenicity	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.
Mutagenicity	No available data
Teratogenicity	No available data
Reproductive toxicity	No available data
Specific target organ toxicity	
Single exposure	
Remark	May cause respiratory irritation.
Repeated exposure	
Remark	No available data
Other toxic properties	
Aspiration risk	
Remark	No available data
Human experience	
Excessive exposures may affect human health, as follows:	
Inhalation May be harmful if inhaled. Causes respiratory tract irritation.	
Skin contact May be harmful if absorbed through skin. May cause skin irritation.	
Eye contact Causes serious eye irritation.	
Ingestion Harmful if swallowed.	

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Information on Components: Poly aluminium chloride CAS-No. 39290-78-3	
Acute toxicity	
Acute oral	No available data
Inhalation	No available data
Dermal	No available data
Irritation	
Skin Result	irritating to skin
Eyes Result	Irritating to eyes
Sensitisation	
Result	No available data
CMR effects	
Carcinogenicity	No available data
Mutagenicity	No available data
Teratogenicity	No available data
Reproductive toxicity	No available data
Specific target organ toxicity	
Single exposure	
Remark	No available data
Repeated exposure	
Remark	No available data
Other toxic properties	
Aspiration risk	
Remark	No available data
Human experience	
Excessive exposures may affect human health, as follows: Inhalation May be harmful if inhaled. Causes respiratory tract irritation. Skin contact May cause skin irritation. Eye contact Causes serious eye irritation. Ingestion Harmful if swallowed.	

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SECTION 12: ECOLOGICAL INFORMATION	
12.1 Toxicity	
Information on product: ECO Chem 3 in 1 Tablets	
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 organisms. May cause long-term adverse effect in the aquatic environment
Information on components - Sodium hydrogen sulphate CAS-No 7681-38-1	
Acute toxicity	
Fish	No data
Toxicity to Daphnia and other invertebrates	EC50 / 48 h / Daphnia magna (Water flea): 190 mg/l
Algae	No data
Information on components - Sodium chlorite CAS-No. 7758-19-2	
Acute toxicity	
Fish	LC50 / 96 h / Cyprinodon variegatus (sheepshead minnow): 105 mg/l
Toxicity to Daphnia and other invertebrates	EC50 / 48 h / Daphnia magna (Water flea): < 1.0 mg/l LC50 / 96 h / Americamysis bahia (mysid shrimp): 0.65 mg/l
Algae	ErC50 / 96 h / Scenedesmus capricornutum (fresh water algae): 1 mg/l
Information on components - Calcium chloride CAS-No. 10043-52-4	
Acute toxicity	
Fish	LC50 / 96 h / fish (no species given): >10,000 mg/l
Toxicity to Daphnia and other invertebrates	EC50 / 48 h / Daphnia magna (Water flea): >50 mg/l
Algae	No data
Information on components - Trocloses sodium di hydrate CAS-No. 51580-86-0	
Acute toxicity	
Fish	No data
Toxicity to Daphnia and other invertebrates	No data

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Algae	No data
General information Very toxic to aquatic organisms. May cause long-term adverse effects in the environment.	
Information on Components: Poly aluminium chloride CAS-No. 39290-78-3	
Acute toxicity	
Fish	No data
Toxicity to Daphnia and other invertebrates	No data
Algae	No data
General information No information	

12.2 Persistence and Degradability

Information on components - Sodium hydrogen sulphate CAS-No 7681-38-1

Biodegradability

Result	No data available
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Information on components - Sodium chlorite CAS-No. 7758-19-2

Biodegradability

Result	According to the results of tests of biodegradability this product is not readily biodegradable.
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Information on components - Calcium chloride CAS-No. 10043-52-4

Biodegradability

Result	Not biodegradable
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Information on components - Troclosen sodium di hydrate CAS-No. 51580-86-0

Biodegradability

Result	No data
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Information on Components: Poly aluminium chloride CAS-No. 39290-78-3

Biodegradability

Result	No data
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12.3 Bioaccumulation Potential

Information on components - Sodium hydrogen sulphate CAS-No 7681-38-1

Bioaccumulation

Result	Does not bioaccumulate
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Information on components - Sodium chlorite CAS-No. 7758-19-2	
Bioaccumulation	
Result	Bioaccumulation is unlikely.
Information on components - Calcium chloride CAS-No. 10043-52-4	
Bioaccumulation	
Result	Does not bioaccumulate
Information on components - Troclosen sodium di hydrate CAS-No. 51580-86-0	
Bioaccumulation	
Result	No data available
Information on Components: Poly aluminium chloride CAS-No. 39290-78-3	
Bioaccumulation	
Result	Does not bioaccumulate

12.4 Mobility in soil	
Information on components - Sodium hydrogen sulphate CAS-No 7681-38-1	
Mobility	
Soil	Soluble in water. No other data available
Information on components - Sodium chlorite CAS-No. 7758-19-2	
Mobility	
Soil	Soluble in water. No other data available
Information on components - Calcium chloride CAS-No. 10043-52-4	
Mobility	
Soil	Soluble in water. No other data available
Information on components - Troclosen sodium di hydrate CAS-No. 51580-86-0	
Mobility	
Soil	Soluble in water. No other data available
Information on Components: Poly aluminium chloride CAS-No. 39290-78-3	
Mobility	
Soil	Soluble in water. No other data available

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12.5 Results of PBT and vPvB assessment	
Information on components - Sodium chlorite CAS-No. 7758-19-2	
Results of PBT and vPvB assessment	
Result	This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT). / This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).
12.6 Other adverse effects	
Additional ecological Information	
No data is available on the product itself.	
Result	Do not flush into surface water or sanitary sewers Avoid subsoil penetration

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SECTION 13: DISPOSAL CONSIDERATION

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.
Contaminated packaging	Empty remaining contents thoroughly. They can be recycled after thorough cleaning. Packaging that cannot be cleaned are to be disposed of in the same manner as the product. Dispose of in accordance with local regulations.
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.

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SECTION 14: TRANSPORT INFORMATION	
14.1 UN Number	
UN1479	
14.2 Proper shipping name	
ADR	OXIDISING SOLID N.O.S. Contains sodium chlorite
RID	OXIDISING SOLID N.O.S. Contains sodium chlorite
IMDG	OXIDISING SOLID N.O.S. Contains sodium chlorite
IATA	OXIDISING SOLID N.O.S. (sodium chlorite)
14.3 transport hazard class(es)	
ADR (Labels, Classification code, Hazard Identification No., Tunnel restriction code)	Class 5.1, 5.1, Oxidiser, HAZ ID CODE50, TUNNEL CAT 2(E)
RID (Labels, Classification code, Hazard Identification No.)	Class 5.1, Oxidiser, HAZ ID CODE50
IMDG (Labels EmS)	Class 5.1, Oxidiser
IATA	Class 5.1, Oxidiser
14.4 Packing Group	
ADR	PG II
RID	PG II
IMDG	PG II
IATA	PG II
14.5 Environmental Hazards	
ADR Labeling according to 5.2.1.8	None
RID Labeling according to 5.2.1.8	None
IMDG Labeling according to 5.2.1.6.3	None
IMDG Classification as environmentally hazardous according to 2.9.3	None
IATA	None
14.6 Special precautions for user	
Not applicable	
14.7 Transport in Bulk according to annex II/MARPOL 73/78 and the IBC code	
IMDG	Not applicable

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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

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

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)

15.2 Chemical safety assessment

A Chemical Safety Assessment has been carried out for active component sodium chlorite.

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SECTION 16: OTHER INFORMATION

Issue information

First issued 19/06/08 Authorised by K. Ferguson	Last revised Not revised
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Significant changes at this revision

Inclusion of IATA data and three physical and chemical properties fields.
Several components registration numbers were added.
Classifications according to EU Directive 67/548/EEC have been removed.
Additional minor clerical and formatting changes have been made.

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

H272: May intensify fire; oxidiser
H301: Toxic if swallowed
H302: Harmful if swallowed
H310 + H330: Fatal in contact with skin or if inhaled
H314: Causes severe skin burns and eye damage
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
EUH032: Contact with acids liberates very toxic gas

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

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. ChemEco UK 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.

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