

Chlorinated Disinfecting Tablets (Dilution 0.5 ppm - 5550 ppm)

Safety Data Sheet - Rev: 0

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 29th August 2018

SECTION 1: Identification

1.1. Identification

Product form : Mixture
Trade name : Chlorinated Disinfecting Tablets (Dilution 0.5 - 5550 ppm)

1.2. Recommended use and restrictions on use

Use of the substance/mixture : Effervescent NaDCC Tablets are used for drinking water disinfection & surface disinfection

1.3. Supplier

SOP Green Klean
615 Industrial Drive
Suite D
Cary, IL 60013
815-479-0460

1.4. Emergency telephone number

Emergency number : +353 53 9117900 (Office hours only, Monday - Friday, 8.30 am - 4.00pm) Poisons
Ireland: Information for medical professionals: Telephone 01 809 2566 (8.00am – 10.00pm).
USA: IN THE EVENT OF A MEDICAL EMERGENCY CALL YOUR POISON CONTROL CENTER AT 1-800-222-1222
Have the product container or label with you when calling a poison control center or doctor or going for treatment.

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS-US classification

Not classified

2.2. GHS Label elements, including precautionary statements

GHS-US labelling

No labelling applicable

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

Name	Product identifier	%	GHS-US classification
Troclosene Sodium / 1,3,5 -Triazine - 2,4,6 (1H, 3H,5H) - trione, 1, 3 - dichloro-,sodium salt	(CAS-No.) 2893-78-9	0.00003 - 0.28	Ox. Liq. 3, H272 Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319 STOT SE 3, H335 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Adipic Acid	(CAS-No.) 124-04-9	0.00001 - 0.13	Eye Irrit. 2A, H319
Sodium bicarbonate	(CAS-No.) 144-55-8	0.00001 – 0.12	Not classified
sodium carbonate	(CAS-No.) 497-19-8	0.000002 - 0.02	Eye Irrit. 2, H319

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Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact : Wash skin with plenty of water.
First-aid measures after eye contact : Rinse eyes with water as a precaution.
First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.

4.2. Most important symptoms and effects (acute and delayed)

No additional information available

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam.

5.2. Specific hazards arising from the chemical

Reactivity : The product is non-reactive under normal conditions of use, storage and transport.

5.3. Special protective equipment and precautions for fire-fighters

Protective equipment for firefighters : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Mechanically recover the product.
Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment.
Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Troclosene Sodium / 1,3,5 -Triazine - 2,4,6 (1H, 3H,5H) - trione, 1, 3 - dichloro-,sodium salt (2893-78-9)
Not applicable
Adipic Acid (124-04-9)
Not applicable

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Sodium bicarbonate (144-55-8)
Not applicable
sodium carbonate (497-19-8)
Not applicable

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the workstation.
Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

In case of repeated or prolonged contact (industrial environment), wear personal protective equipment.

Hand protection:

In case of repeated or prolonged contact (industrial environment), wear gloves; Chemical resistant gloves in accordance with OSHA requirements (29 CFR 1910.138)

Eye protection:

In industrial environment, use safety glasses for eye protection tested and approved in accordance with OSHA requirements (29 CFR 1910.133).

Respiratory protection:

Inhalation is unlikely route of exposure in this type of products

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: Tablets.
Colour	: white Offwhite
Odour	: slight chlorine
Odour threshold	: No data available
pH	: No data available
pH solution	: 5.5 - 6.5 For neat form (assupplied)
Melting point	: No data available
Freezing point	: Not applicable
Boiling point	: No data available
Flash point	: Not applicable
Relative evaporation rate (butylacetate=1)	: No data available
Flammability (solid, gas)	: Non flammable.
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: Not applicable
Solubility	: completely soluble. (100%) in water.
Log Pow	: No data available
Auto-ignition temperature	: Not applicable
Decomposition temperature	: 225 - 250 °C
Viscosity, kinematic	: Not applicable
Viscosity, dynamic	: No data available
Explosive limits	: Not applicable
Explosive properties	: No data available
Oxidising properties	: No data available

9.2. Other information

No additional information available

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SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

Troclosene Sodium / 1,3,5 -Triazine - 2,4,6 (1H, 3H,5H) - trione, 1, 3 - dichloro-,sodium salt (2893-78-9)	
LD50 oral rat	735 mg/kg bodyweight

Sodium bicarbonate (144-55-8)	
LD50 oral rat	4220 mg/kg bodyweight

sodium carbonate (497-19-8)	
LD50 dermal rat	2210 mg/kg

Skin corrosion/irritation : Not classified

Serious eye damage/irritation : Not classified

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated exposure) : Not classified

Aspiration hazard : Not classified

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

12.2. Persistence and degradability

US Klorsept (Dilution 0.5 - 5550 ppm)	
Persistence and degradability	This material is believed not to persist in the environment. Free available chlorine is rapidly consumed by reaction with organic and inorganic materials to produce chloride ion. The stable degradation products are chloride ion and cyanuric acid. This material is subject to hydrolysis. Cyanuric acid produced by hydrolysis is biodegradable.

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12.3. Bioaccumulative potential

US Klorsept (Dilution 0.5 - 5550 ppm)

Bioaccumulative potential

This material hydrolyses in water liberating free available chlorine and cyanuric acid. These products are not bioaccumulative. Bioaccumulation not expected to occur.

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Not applicable

Transportation of Dangerous Goods

Not applicable

Transport by sea

Not applicable

Air transport

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

USA:

All the ingredients in this preparation are listed in the EPA TSCA Inventory.

This product is registered under FIFRA - Klorsept EPA registration number: 71847-6.

PLEASE REFER TO EPA MASTER LABEL FOR ADDITIONAL SAFETY AND OTHER INFORMATION ON THE MIXTURE

CERCLA/SARA – 302 ext. haz. substances – This material contains hazardous substance (Adipic Acid) as defined by CERCLA/SARA and the Reportable Quantity is 5000lbs.

SARA (311,312) – This product is categorized as an immediate health hazard, and fire and reactivity physical hazard (Sodium Dichloroisocyanurate)

Massachusetts Right-to-Know Hazardous Substances list – Listed (Adipic Acid, Sodium Dichloroisocyanurate)

New Jersey Right-to-Know Hazardous Substances list – Listed (Adipic Acid, Sodium Dichloroisocyanurate)

Pennsylvania Right-to-Know Hazardous Substances list – Listed (Adipic Acid, Sodium Dichloroisocyanurate)

Rhode Island Right-to-Know Hazardous Substances list – Listed (Adipic Acid, Sodium Dichloroisocyanurate)

Workplace Classification – This product is considered hazardous under the OSHA Hazard Communication Standard (29CFR 1910.1200)

15.2. International regulations

Canada:

Canadian Chemical Inventory (DSL) – Listed

WHMIS hazard class –

D2B toxic materials

For Sodium dichloroisocyanurate:

C oxidizing materials

D1B toxic materials

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For Sodium Carbonate:
E corrosive materials

The active substance is also listed in the following chemical inventories:

- Australian Chemical Inventory (AICS) – Listed
- China Chemical Inventory (IECSC) – Listed
- European Union Inventory (EINECS) – Reported
- Japan Chemical Inventory (ENCS) – Listed
- Korean Chemical Inventory (KECI) – Listed
- New Zealand Chemical Inventory (NZIOC) – Listed
- Philippines Priority Chemical List (PICCS) – Listed

The mixture is generally classified and registered as a disinfectant, biocide, or pesticide.

EU Regulation: If required for sale in Ireland (country of origin), the mixture is notified to the Pesticide Control Service, Department of Agriculture, Food and the Marine as a biocide under its appropriate trade name. The product is generally classified as a biocide in the EU, and as such is subject to regulation under EU Regulation No. 528/2012 (Biocidal Products Regulation).

SECTION 16: Other information

Full text of H-statements:

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.

SDS US (GHS HazCom 2012) Prop 65 Correction

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product

REVISION HISTORY:

Revision No. 0 – New SDS prepared to cover all in-use dilutions of US Klorsept product



DISINFECT ALL COMMERCIAL FACILITIES FROM ENTRY TO EXIT

EPA REGISTERED USES: For use in amusement parks, breweries, beverage and food processing plants, food processing and canning plants, bottling plants, fish processing plants, meat and poultry processing plants, schools, universities, hospitals, neo-natal units, physicians/pediatricians offices, office buildings, nursing homes, elder care centers, child care centers, daycares, shelters, cafeterias, diners, eating establishments, institutional dining establishments, hotel restaurants, food service, stores, shops, camp sites, casinos, movie theaters, industrial facilities, military installations, licensed care facilities, institutions, catering, kitchens, vending machines, Intensive Care Unit, ICU operating rooms, emergency waiting rooms, dental facilities, gyms, locker room facilities, health clubs, restrooms, Tattoo parlors, manicure pedicure salons, commercial laundries, and prisons. This product is for use in hospitals, medical and dental offices and clinics, operating rooms, isolation wards, and medical research facilities. Cosmetic, pharmaceutical, medical device manufacturing facilities, biotechnology firms, pharmacies, and compounding pharmacies.



6.55 Gram Tablet

PATHOGEN	MINIMUM DOSE REQUIRED	MINIMUM CONTACT TIME REQUIRED
Food Contact Sanitizer Claims		
Staphylococcus aureus	100 ppm	1 minute
Salmonella enterica	100 ppm	1 minute
Disinfection Claims - bacteria		
Staphylococcus aureus	a) 1076 ppm b) 4306 ppm	10 minutes 4 minutes
Staphylococcus aureus - methicillin resistant (MRSA) & glycopeptide-resistant (GRSA)	a) 1076 ppm b) 4306 ppm	10 minutes 4 minutes
Staphylococcus epidermidis	1076 ppm	10 minutes
Salmonella enterica	a) 1076 ppm b) 4306 ppm	10 minutes 4 minutes
Pseudomonas aeruginosa	a) 1076 ppm b) 4306 ppm	10 minutes 4 minutes
Streptococcus pneumoniae	4306 ppm	4 minutes
Escherichia coli O157-H7	1076 ppm	10 minutes
Acinetobacter baumannii	4306 ppm	4 minutes
Vancomycin resistant Enterococcus faecalis	a) 1076 ppm b) 4306 ppm	10 minutes 4 minutes
Carbapenem resistant Klebsiella pneumoniae	4306 ppm	4 minutes
Klebsiella pneumoniae	1076 ppm	10 minutes

Effective against gram positive and gram negative bacteria.

SANITIZING DIRECTIONS

TABLET SIZE 6.55 grams	TABLETS PER 5 GALLONS OF WATER
100 PPM	1

DISINFECTION MIXING DIRECTIONS

TABLET SIZE 6.55 grams	TABLETS PER QUART OF WATER	TABLETS PER GALLON OF WATER
538 PPM	0	1
1076 PPM	0	2
2153 PPM	1	4
4306 PPM	2	8
5382 PPM	0	10

PATHOGEN	MINIMUM DOSE REQUIRED	MINIMUM CONTACT TIME REQUIRED
Virucidal Claims		
Respiratory syncytial virus	538 ppm	10 minutes
Rhinovirus Type 14	1076 ppm	10 minutes
Influenza H1N1	1076 ppm	10 minutes
Human Immunodeficiency Virus Type 1 (HIV-1)	a) 1076 ppm b) 4306 ppm	10 minutes 1 minute
Hepatitis A and B virus	a) 1076 ppm b) 4306 ppm	10 minutes 1 minute
Hepatitis C virus	4306 ppm	1 minute
Coxsackievirus	4306 ppm	1 minute
Influenza	4306 ppm	1 minute
Norovirus	2153 ppm	1 minute
Poliovirus Type 1	1076 ppm	10 minutes
Fungicidal/Yeasticidal Claims		
Aspergillus fumigatus	4306 ppm	1 minute
Candida albicans	4306 ppm	4 minutes
Trichophyton mentogrophytes	1076 ppm	10 minutes
Herpes simplex virus type 1	1076 ppm	10 minutes
Clostridium difficile Claims		
Clostridium difficile spores	a) 2153 ppm b) 4306 ppm	10 minutes 4 minutes
Mycobactericidal Claims		
Mycobacterium bovis (TB)	5382 ppm	4 minutes



See page 2 for Directions for use



SOP GREEN KLEAN®
Chlorinated Disinfecting Tablets



DIRECTIONS FOR USE GREEN KLEAN CHLORINATED DISINFECTING TABLETS

Container Size	Type Solution	Number of Tablets
5 Gallon Buddy Jug	EPA Sanitizer	1
Mop Bucket – Up to 5 Gallons	EPA Sanitizer	1
Third Sink – 5 Gallons	EPA Sanitizer	1
Quart Spray Bottle	EPA Disinfectant Kills Norovirus in 1 minute C Diff in 10 minutes	1
Quart Spray Bottle	EPA Disinfectant Kills C Diff in 4 minutes	2
Quart Spray Bottle	Grout Cleaner / Mold and Mildew Stain Remover	2
Electrostatic Sprayer Quart Tank	EPA Disinfectant @ 2153 ppm Effective against 31 pathogens	1

*SOLUTION RETAINS EFFICACY FOR 3 DAYS WHEN ADDED TO WATER AND KEPT IN A CLOSED CONTAINER.



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