

# PUR:ONE (Dilution 0.5 ppm - 5550 ppm)

## Safety Data Sheet Rev: 2

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

Date of issue: 30<sup>th</sup> January 2019

### SECTION 1: Identification

#### 1.1. Identification

Product form : Mixture  
Trade name : PUR:ONE (Dilution 0.5 -5550 ppm)

#### 1.2. Recommended use and restrictions on use

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

#### 1.3. Supplier

##### Manufactured for:

EarthSafe Chemical Alternatives, LLC  
145 Wood Road  
Braintree, MA 02184  
T 866-666-2305  
info@earthsafeca.com

#### 1.4. Emergency telephone number

Emergency number  
USA CHEMTREC 1-800-424-9300  
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

#### 3.2. Mixtures

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	0.000025 - 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	0.000012 - 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
SURFAC SDBS80	NA	0.000001 - 0.01	Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 3, H412

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Safety Data Sheet Rev : 2

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

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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Safety Data Sheet Rev : 2

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

<b>Sodium bicarbonate (144-55-8)</b>
Not applicable
<b>sodium carbonate (497-19-8)</b>
Not applicable
<b>SURFAC SDBS80</b>
Not applicable

## 8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.  
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

**Note: The Chemical/Physical properties outlined below relate to the tablet product which is used to prepare the in-use dilution solution.**

Physical state	: Solid
Appearance	: Tablets.
Colour	: white Off white
Odour	: slight chlorine
Odour threshold	: No data available
pH	: No data available
pH solution	: 5.5 - 6.5 For neat form (as supplied)
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

# PUR:ONE (Dilution 0.5 ppm - 5550 ppm)

## Safety Data Sheet Rev : 2

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

### 9.2. Other information

No additional information available

## 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

PUR:ONE (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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Safety Data Sheet Rev : 2

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## 12.3. Bioaccumulative potential

### PUR:ONE (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

**Disposal Instructions for solution:** In appropriate quantities and concentrations, and subject to local and national regulations, diluted solutions may be flushed to sanitary sewer.

**Hazardous Waste Code:** Not Assigned

**Waste from residues/unused products/undiluted products/contaminated packaging:** Dispose of according to local/national/international regulations. Contact appropriate licensed collector as required.

## 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. – Klorkleen 2 EPA registration number: 71847-7. “PUR:ONE” is sub-registered from Klorkleen 2, EPA Reg Number: 71847-7-91524

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)

# PUR:ONE (Dilution 0.5 ppm - 5550 ppm)

## Safety Data Sheet Rev : 2

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### 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  
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 (NZIOOC) – 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 must be 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), and all other applicable EU national biocide regulations.

### SECTION 16: Other information

Full text of H-statements detailed in Section 3:

**Note:** These H (Hazard) statements are applicable to the ingredients used in the mixture as per Section 3 above – “GHS US classification”. The full text of these statements is shown below for information purposes.

As per Section 2, the in-use dilution solution is not classified under GHS regulation, so H statements are not applicable to the in-use dilution solution.

H272	May intensify fire; oxidiser.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful 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. 2 – SDS updated to clarify Section 13 and to add more detail.*

*Revision No. 1 – SDS updated to clarify Section 9, and applicability of H statement table in Section 16.*

*Revision No. 0 – New SDS prepared to cover all in-use dilutions of Klorkleen 2 product*