# Safety Data Sheet



### **SECTION 1: Product and company identification**

: Lemocide Disinfectant Product name

: Disinfectant Use of the substance/mixture : 0173 Product code

: Eco Clean Solutions Company

570 Oak St

Copiague, NY 11726 USA T(877) 416-6880

: Chemtec: (800) 424-9300 Emergency number

#### **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

#### **GHS-US** classification

Acute Tox. 4 (Inhalation:dust,mist) H332 Skin Irrit. 2 Eye Dam. 1 H318 Skin Sens. 1 H317 H351 Carc. 2 STOT SE 2 H371

#### 2.2. Label elements

#### **GHS-US** labeling

Hazard pictograms (GHS-US)



GHS05





GHS08

: Danger

Signal word (GHS-US)

Hazard statements (GHS-US) : Causes skin irritation

May cause an allergic skin reaction Causes serious eve damage

Harmful if inhaled

Suspected of causing cancer May cause damage to organs

Precautionary statements (GHS-US) Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Do not breathe mist, spray Avoid breathing mist, spray Wash thoroughly after handling

Do not eat, drink or smoke when using this product Use only outdoors or in a well-ventilated area

Contaminated work clothing must not be allowed out of the workplace

Wear eye protection, protective clothing, protective gloves

If on skin: Wash with plenty of water

If inhaled: Remove person to fresh air and keep comfortable for breathing

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing

If exposed or concerned: Get medical advice/attention Immediately call a POISON CENTER, a doctor Call a doctor, a POISON CENTER if you feel unwell Specific treatment (see First aid measures on this label) If skin irritation occurs: Get medical advice/attention If skin irritation or rash occurs: Get medical advice/attention Take off contaminated clothing and wash it before reuse

Wash contaminated clothing before reuse

Store locked up

Dispose of contents/container to comply with local/regional/national/international regulations.

## Other hazards

No additional information available

## 2.4. Unknown acute toxicity (GHS US)

Not applicable

## **SECTION 3: Composition/Information on ingredients**

### 3.1. Substances

Not applicable

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Full text of H-phrases: see section 16

Name	Product identifier	%	GHS-US classification
Alcohols (c12-15 Ln. Saturated) Ethoxylate	(CAS No) 68131-39-5	1-5	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318
sodium carbonate	(CAS No) 497-19-8	1-5	Eye Irrit. 2A, H319
BENZALKONIUM CHLORIDE	(CAS No) 68391-01-5	1-5	Acute Tox. 3 (Oral), H301 Acute Tox. 2 (Inhalation), H330 Skin Corr. 1B, H314 STOT SE 2, H371 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Alkyl (68% C12, 32% C14) dimethyl ethylbenzyl ammonium chloride	(CAS No) 85409-23-0	1-5	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Skin Corr. 1B, H314 Aquatic Chronic 1, H410
tetrasodium ethylenediaminetetracetate	(CAS No) 64-02-8	0.5-1.5	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318
(+)-limonene	(CAS No) 5989-27-5	0.1-1	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Asp. Tox. 1, H304
trisodium nitrilotriacetate	(CAS No) 5064-31-3	0.01-1	Acute Tox. 4 (Oral), H302 Eye Irrit. 2A, H319 Carc. 2, H351

A specific chemical identity and/or percentage of composition has been withheld as a trade secret. Any concentration shown as a range is to protect confidentiality or is due to batch variation.

### **SECTION 4: First aid measures**

4.1. Description of first aid measures

First-aid measures general : If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical

advice/attention if you feel unwell.

First-aid measures after skin contact : Take off contaminated clothing and wash it before reuse. Wash with plenty of soap and water. If skin

irritation or rash occurs: Get medical advice/attention.

First-aid measures after eye contact : Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue

rinsing. Immediately call a poison center or doctor/physician.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Consult a doctor/medical service if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries : Causes skin irritation. May cause an allergic skin reaction. May cause cancer. May cause damage to

organs. Causes serious eye damage. Harmful if inhaled.

Symptoms/injuries after inhalation : Harmful if inhaled.

Symptoms/injuries after skin contact : May cause an allergic skin reaction. Causes skin irritation.

Symptoms/injuries after eye contact : Causes serious eye damage. Corrosion of the eye tissue. Permanent eye damage.

Symptoms/injuries after ingestion : Burns to the gastric/intestinal mucosa. Gastrointestinal complaints. Nausea. Diarrhea. Cramps.

#### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## **SECTION 5: Firefighting measures**

5.1. Extinguishing media

Suitable extinguishing media : All extinguishing media allowed.

5.2. Special hazards arising from the substance or mixture

Reactivity : Upon combustion: CO and CO2 are formed.

5.3. Advice for firefighters

Firefighting instructions : Exercise caution when fighting any chemical fire. Use water spray or fog for cooling exposed

containers. Take account of environmentally hazardous firefighting water.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

### **SECTION 6: Accidental release measures**

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Isolate from fire, if possible, without unnecessary risk.

6.1.1. For non-emergency personnel

Protective equipment : Safety glasses. Gloves. Protective clothing.

Emergency procedures : Evacuate unnecessary personnel. Avoid contact with skin, eyes and clothing. Ventilate spillage area.

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#### 6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Stop leak if safe to do so. Stop release. Ventilate area.

#### 6.2. Environmental precautions

Avoid release to the environment. Prevent soil and water pollution.

#### 6.3. Methods and material for containment and cleaning up

For containment : Contain released substance, pump into suitable containers.

Methods for cleaning up : This material and its container must be disposed of in a safe way, and as per local legislation.

#### 6.4. Reference to other sections

No additional information available

#### **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Precautions for safe handling : Comply with the legal requirements. Do not handle until all safety precautions have been read

and understood. Use personal protective equipment as required. Do not eat, drink or smoke

when using this product. Do not get in eyes, on skin, or on clothing.

Hygiene measures : Wash thoroughly after handling. Wash contaminated clothing before reuse.

#### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Comply with applicable regulations.

Storage conditions : Keep container closed when not in use. Store in original container. Protect from freezing.

Incompatible products : Strong acids.

Storage area : Keep only in the original container. Store in a dry area. Store in a cool area.

Special rules on packaging : meet the legal requirements.

## **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

## **BENZALKONIUM CHLORIDE (68391-01-5)**

Not applicable

### Alkyl (68% C12, 32% C14) dimethyl ethylbenzyl ammonium chloride (85409-23-0)

Not applicable

## sodium carbonate (497-19-8)

Not applicable

#### tetrasodium ethylenediaminetetracetate (64-02-8)

Not applicable

# trisodium nitrilotriacetate (5064-31-3)

Not applicable

### Alcohols (c12-15 Ln. Saturated) Ethoxylate (68131-39-5)

Not applicable

#### (+)-limonene (5989-27-5)

Not applicable

## 8.2. Exposure controls

Personal protective equipment : Use appropriate personal protective equipment when risk assessment indicates this is necessary. Safety glasses. Gloves. Protective clothing.







## **SECTION 9: Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

Physical state : Liquid

Appearance : clear. Yellow liquid.
Odor : lemon-like
Odor threshold : No data available

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pH : 11 - 14

: No data available Melting point Freezing point No data available Boiling point : No data available Flash point : > 200 °F Closed Cup Relative evaporation rate (butyl acetate=1) : No data available Flammability (solid, gas) : No data available **Explosion limits** No data available Explosive properties : No data available : No data available Oxidizing properties Vapor pressure No data available : No data available Relative density Relative vapor density at 20 °C No data available

Specific gravity / density : 1.04 g/ml
Solubility : Soluble in water.
Log Pow : No data available
Log Kow : No data available
Auto-ignition temperature : No data available
Decomposition temperature : No data available

Viscosity : No data available
Viscosity, kinematic : No data available
Viscosity, dynamic : No data available

VOC content : < 1 %

# **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

Upon combustion: CO and CO2 are formed.

#### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

Refer to section 10.1 on Reactivity.

#### 10.4. Conditions to avoid

No additional information available

### 10.5. Incompatible materials

Strong acids.

### 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 : Inhalation:dust,mist: Harmful if inhaled.

sodium carbonate (497-19-8)	
LD50 oral rat	2800 mg/kg (Rat; Experimental value)
LD50 dermal rabbit	> 2000 mg/kg (Rabbit; Experimental value)
ATE CLP (oral)	2800.000 mg/kg body weight
tetrasodium ethylenediaminetetracetate (64-02-8)	
LD50 oral rat	> 2000 mg/kg (Rat)
ATE CLP (oral)	500.000 mg/kg body weight
trisodium nitrilotriacetate (5064-31-3)	
LD50 oral rat	1740 mg/kg rat, male and female
LD50 dermal rabbit	> 2000 mg/kg
ATE CLP (oral)	500.000 mg/kg body weight
Alcohols (c12-15 Ln. Saturated) Ethoxylate (68131-39-5)	
LD50 oral rat	> 2000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg

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(+)-limonene (5989-27-5)	
LD50 oral rat	4400 mg/kg body weight (Rat; OECD 423: Acute Oral Toxicity – Acute Toxic Class Method; Literature study; > 2000 mg/kg bodyweight; Rat; Read-across)
LD50 dermal rabbit	> 5000 mg/kg body weight (Rabbit; Weight of evidence; Equivalent or similar to OECD 402)
ATE CLP (oral)	4400.000 mg/kg body weight
Claire as a massic or /invitations	Course olde imitation

Skin corrosion/irritation : Causes skin irritation.

pH: 11 - 14

Serious eye damage/irritation : Causes serious eye damage.

pH: 11 - 14

Respiratory or skin sensitization : May cause an allergic skin reaction.

Germ cell mutagenicity : Not classified

Carcinogenicity : Suspected of causing cancer.

trisodium nitrilotriacetate (5064-31-3)		
IARC group 2B - Possibly carcinogenic to humans		
(+)-limonene (5989-27-5)		
IARC group	3 - Not classifiable	

Reproductive toxicity : Not classified

Specific target organ toxicity – single exposure : May cause damage to organs.

Specific target organ toxicity – repeated

exposure

: Not classified

Aspiration hazard : Not classified Symptoms/injuries after inhalation : Harmful if inhaled.

Symptoms/injuries after skin contact : May cause an allergic skin reaction. Causes skin irritation.

Symptoms/injuries after eye contact : Causes serious eye damage. Corrosion of the eye tissue. Permanent eye damage.

Symptoms/injuries after ingestion : Burns to the gastric/intestinal mucosa. Gastrointestinal complaints. Nausea. Diarrhea. Cramps.

Likely routes of exposure : Skin and eye contact;Inhalation

## **SECTION 12: Ecological information**

12.1. Toxicity		
sodium carbonate (497-19-8)		
LC50 fish 1	300 mg/l (LC50; Other; 96 h; Lepomis macrochirus; Static system; Fresh water; Experimental value)	
Threshold limit algae 1	242 mg/l (EC50; 5 days; Algae)	
tetrasodium ethylenediaminetetracetate (64-02-8)		
LC50 fish 1	121 mg/l (LC50; 96 h)	
EC50 Daphnia 1	625 mg/l (EC50; 24 h)	
Threshold limit algae 1	> 100 mg/l (EC0; 72 h)	
trisodium nitrilotriacetate (5064-31-3	)	
LC50 fish 1	114 mg/l Pimephales promelas (fathead minnow); Test Type: flow-through test	
EC50 Daphnia 1	> 100 mg/l Daphnia magna (Water flea); Test Type: static test	
ErC50 (algae)	91.5 mg/l Desmodesmus subspicatus (green algae); Exposure time: 72 h; Test Type: static test; Method: OECD Test Guideline 201	
Alcohols (c12-15 Ln. Saturated) Ethe	oxylate (68131-39-5)	
LC50 fish 1	5 - 10 mg/l Fish	
EC50 Daphnia 1	5 - 10 mg/l Daphnia	
ErC50 (algae)	10 - 100 mg/l Algae	
(+)-limonene (5989-27-5)		
LC50 fish 1	720 μg/l (LC50; OECD 203: Fish, Acute Toxicity Test; 96 h; Pimephales promelas; Flow-through system; Fresh water; Experimental value)	
EC50 Daphnia 1	0.36 mg/l (EC50; OECD 202: Daphnia sp. Acute Immobilisation Test; 48 h; Daphnia magna; Static system; Fresh water; Experimental value)	
Threshold limit algae 1	150 mg/l (EC50; OECD 201: Alga, Growth Inhibition Test; 72 h; Desmodesmus subspicatus;	

12.2. Persistence and degradability

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Static system; Fresh water; Read-across)





sodium carbonate (497-19-8)		
Persistence and degradability	Biodegradability: not applicable. Low potential for adsorption in soil.	
ThOD	Not applicable (inorganic)	
tetrasodium ethylenediaminetetracetate (64-02-8)		
Persistence and degradability	Not readily biodegradable in water.	
Biochemical oxygen demand (BOD)	< 0.002 g O <sub>2</sub> /g substance	
Chemical oxygen demand (COD)	0.54 - 0.58 g O₂/g substance	
(+)-limonene (5989-27-5)		
Persistence and degradability	Readily biodegradable in water. Forming sediments in water. Adsorbs into the soil.	
ThOD	3.29 g O <sub>2</sub> /g substance	

### 12.3. Bioaccumulative potential

sodium carbonate (497-19-8)		
Log Pow	-6.19 (Estimated value)	
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).	
tetrasodium ethylenediaminetetracetat	te (64-02-8)	
Log Pow	-2.6	
Bioaccumulative potential	Bioaccumulation: not applicable.	
(+)-limonene (5989-27-5)		
BCF fish 1	864.8 - 1022 (BCF; Pisces)	
Log Pow	4.38 (Experimental value; OECD 117: Partition Coefficient (n-octanol/water), HPLC method; 37 °C)	
Bioaccumulative potential	Potential for bioaccumulation (4 ≥ Log Kow ≤ 5).	

### **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

#### **SECTION 14: Transport information**

#### **Department of Transportation (DOT)**

In accordance with DOT: Not regulated for transport

**Additional information** 

Other information : No supplementary information available.

ADR

No additional information available

Transport by sea

No additional information available

Air transport

No additional information available

## **SECTION 15: Regulatory information**

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

California Proposition 65 - This product contains, or may contain, trace quantities of a substance(s) known to the state of California to cause cancer, developmental and/or reproductive harm

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labelling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

DANGER: CORROSIVE. Causes irreversible eye damage and skin burns. Do not get in eyes, on skin or on clothing. Wear goggles or face shield, rubber gloves, and protective clothing. Harmful if inhaled. Remove contaminated clothing and wash before reuse. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.

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# **SECTION 16: Other information**

Training advice : Normal use of this product shall imply use in accordance with the instructions on the packaging.

#### Full text of H-phrases:

H226	Flammable liquid and vapor
H301	Toxic if swallowed
H302	Harmful if swallowed
H304	May be fatal if swallowed and enters airways
H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
H330	Fatal if inhaled
H332	Harmful if inhaled
H351	Suspected of causing cancer
H371	May cause damage to organs
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects

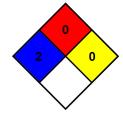
NFPA health hazard : 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual

injury.

NFPA fire hazard : 0 - Materials that will not burn under typical dire conditions, including intrinsically noncombustible

materials such as concrete, stone, and sand.

NFPA reactivity : 0 - Material that in themselves are normally stable, even under fire conditions.



#### Prepared by: Technical Department

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. No warranty is expressed or implied regarding the accuracy of this data or the results obtained from the use thereof. Our company assumes no responsibility for personal injury or property damage to the vendee, users or third parties caused by the material. Such vendees or users assume all risks associated with the use of this material.

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