



Serving Our Customers Since 1975

SAFETY DATA SHEET

Issue Date: 2 December 2015

Revision Date: 2 December 2015

Version 1

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name: **LEMOCIDE**

Product Description: **DISINFECTANT**

Other Means of Identification

Product # A173

Synonyms None

Details of the Supplier of the Safety Data Sheet

Company Name CHEMCO INDUSTRIES, INC.
5731 Manchester Avenue
St. Louis, MO 63110
www.chemcoindustries.com
314-647-1888
1-800-854-4236 (to Reorder)

Emergency Telephone Number

Emergency Telephone INFOTRAC 1-800-535-5053

2. HAZARDS IDENTIFICATION

Classification (GHS-US)

Skin Irrit. 2 H315

Eye Dam. 1 H318

Skin Sens. 1 H317

Carc. 2 H351

*Full text of H-phrases: see section 16

GHS-US Labeling

Hazard pictograms (GHS-US):



Signal Word (GHS-US): **Danger**

Hazard Statements (GHS-US):

- Causes skin irritation
- May cause an allergic skin reaction
- Causes serious eye damage
- Suspected of causing cancer

Precautionary statements (GHS-US):

- Obtain special instructions before use
- Do not handle until all safety precautions have been read and understood
- Avoid breathing mist, spray
- Wash thoroughly after handling
- 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 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 doctor, a POISON CENTER
 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
 Store locked up
 Dispose of contents/container to comply with local/regional/national/international regulations.

Other hazards: No additional information available

Unknown acute toxicity (GHS-US): Not applicable

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance: Not applicable

*Full text of H-phrases: see section 16

Mixture:

Name	Product identifier	%	Classification (GHS-US)
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. 4 (Dermal), H312 Skin Corr. 1B, H314 Eye Dam. 1, H318 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

4. FIRST AID MEASURES

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.

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.

Most important symptoms and effects, both acute and delayed:

Symptoms/injuries:

Causes severe skin burns and eye damage. May cause an allergic skin reaction. May cause cancer.

Symptoms/injuries after inhalation:

May cause respiratory irritation.

Symptoms/injuries after skin contact:

Caustic burns/corrosion of the skin. May cause an allergic skin reaction. Repeated exposure may cause skin dryness or cracking.

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. Diarrhea. Cramps.

Indication of any immediate medical attention and special treatment needed:

Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Extinguishing media:

Suitable extinguishing media: All extinguishing media allowed.

Special hazards arising from the substance or mixture:

Reactivity: Upon combustion: CO and CO₂ are formed.

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.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

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

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.

For emergency responders:

Protective equipment: Equip cleanup crew with proper protection.

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

Environmental precautions:

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

Methods and material for containment and clean 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.

Reference to other sections:

No additional information available.

7. HANDLING AND STORAGE

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.

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 container closed when not in use. Store in a dry area. Store in a cool area.

Special rules on packaging: Meet the legal requirements.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters:

No additional information available

Exposure controls:

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties:

Physical state	Liquid
Appearance	Clear, yellow liquid.
Odor	lemon-like
Odor threshold	No data available
pH	11.5-12.5
Melting point	No data available
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
Oxidizing properties	No data available
Vapor pressure	No data available
Relative density	No data available
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 %

10. STABILITY AND REACTIVITY

Reactivity:

Upon combustion: CO and CO₂ are formed.

Chemical stability:

Stable under normal conditions.

Possibility of hazardous reactions:

Refer to reactivity.

Conditions to avoid:

No additional information available.

Incompatible materials:

Strong acids.

Hazardous decomposition products:

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

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects:

Acute toxicity: Not classified.

(+)-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
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)	500.000 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

Skin corrosion/irritation: Causes skin irritation.
pH: 11.5-12.5

Serious eye damage/irritation: Causes serious eye damage.
pH: 11.5-12.5

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

Germ cell mutagenicity: Not classified.

Carcinogenicity: Suspected of causing cancer.

(+)-limonene (5989-27-5)	
IARC group	3 - Not Classifiable
Trisodium nitrilotriacetate (5064-31-3)	
IARC group	2B - Possibly Carcinogenic to Humans

Reproductive toxicity: Not classified.

Specific target organ toxicity (single exposure): Not classified.

Specific target organ toxicity (repeated exposure): Not classified.

Aspiration hazard: Not classified.

Symptoms/injuries after inhalation: May cause respiratory irritation.

Symptoms/injuries after skin contact: Caustic burns/corrosion of the skin. May cause an allergic skin reaction. Repeated exposure may cause skin dryness or cracking.

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. Diarrhea. Nausea. Cramps.

12. ECOLOGICAL INFORMATION

Toxicity:

(+)-limonene (5989-27-5)	
LC50 fish 1	720 ug/l (96 h; Pimephales promelas; Lethal)
EC50 Daphnia 1	0.36 mg/l (48 h; Daphnia magna; GLP)
LC50 fish 2	702 ug/l (96 h; Pimephales promelas)
Threshold limit algae 1	150 mg/l (72 h; Desmodesmus subspicatus; GLP)
Threshold limit algae 2	2.62 mg/l (72 h; Desmodesmus subspicatus)
Sodium carbonate (497-19-8)	
LC50 fish 1	300 mg/l (96 h; Lepomis macrochirus)
EC50 Daphnia 1	< 424 mg/l (48 h; Daphnia magna)
EC50 other aquatic organisms 1	14 mg/l (168 h; Plankton)
LC50 fish 2	740 mg/l (96 h; Gambusia affinis)
EC50 Daphnia 2	265 mg/l (48 h; Daphnia magna)
TLM fish 1	300 ppm (96 h; Lepomis macrochirus)
TLM other aquatic organisms 1	500 ppm (96 h; Daphnia magna)
Threshold limit algae 1	242 mg/l (5 days; Algae)
Tetrasodium ethylenediaminetetracetate (64-02-8)	
LC50 fish 1	121 mg/l (96 h; Lepomis macrochirus; Soft water)
EC50 Daphnia 1	625 mg/l (24 h; Daphnia magna)
LC50 fish 2	374-792 mg/l (96 h; Lepomis macrochirus; pH > 7)
Threshold limit algae 1	>100 mg/l (72 h; Scenedesmus subspicatus; Growth)
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

Persistence and degradability:

(+)-limonene (5989-27-5)	
Persistence and degradability	Readily biodegradable in water. Forming sediments in water. Adsorbs into the soil.
ThOD	3.29 g O/g substance
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/g substance
Chemical oxygen demand (COD)	0.54-0.58 g O/g substance

Bioaccumulative potential:

(+)-limonene (5989-27-5)	
BCF fish 1	864.8-1022 (Pisces; Fresh weight)
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).
Sodium carbonate (497-19-8)	
Log Pow	-6.19 (Estimated value)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow <4).
Tetrasodium ethylenediaminetetracetate (64-02-8)	
Bioaccumulative potential	Bioaccumulation: not applicable.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods:

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

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.

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.

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) 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 and /or reproductive toxicity.

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling 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.

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:

Acute Tox. 3 (Oral)	Acute toxicity (oral) Category 3
Acute Tox. 4 (Dermal)	Acute toxicity (dermal) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Aquatic Acute 1	Hazardous to the aquatic environment - Acute Hazard Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment - Chronic Hazard Category 1
Asp. Tox. 1	Aspiration hazard Category 1
Carc. 2	Carcinogenicity Category 2
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Flam. Liq. 3	Flammable liquids Category 3
Skin Corr. 1B	Skin corrosion/irritation Category 1
Skin Irrit. 2	Skin corrosion/irritation Category 2
Skin Sens. 1	Skin sensitization Category 1
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
H351	Suspected of causing cancer
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects

NFPA health hazard: 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.

NFPA fire hazard: 0 - Materials that will not burn.

NFPA reactivity: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water

Disclaimer

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 vendee or users assume all risks associated with the use of this material.