

SAFETY DATA SHEET

Date issued : 11/14/2014

SDS number : LOS

Date revised : 06/10/2025

Revision number : 4

Lemon One Step

1. Identification

Product code: LOS

Product identifier: Lemon One Step

Product description: Heavy Duty Cleaner & Disinfectant

Chemical family: Quaternary Ammonium Chloride Blend

Relevant identified uses: Disinfectant, Virucide, Fungicide

Manufacturer / Supplier

MISCO Products Corporation

1048 Stinson Drive

Reading, PA 19605

Customer Service: 800-548-4568

Transportation: 800-548-4568

EPA reg. No.: 47371-36-8325

Emergency telephone number (24 hour)

VelocityEHS (Medical and Transportation): 800-255-3924

POISON CONTROL CENTER (Medical): 800-222-1222

2. Hazard identification

Classification of the substance or mixture

Health hazards:

Skin Irritation, Category 2

Eye Irritation, Category 2A

Environmental hazards:

Short-term (acute) aquatic hazard, Category 2

Long-term (chronic) aquatic hazard, Category 3

Label elements



Exclamation
mark

Signal word: DANGER

Hazard statement(s)

H315: Causes skin irritation.

H319: Causes serious eye irritation.

Precautionary statement(s)

Prevention:

P264: Wash hands thoroughly after handling.

P273: Avoid release to the environment.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

Response:

P302+P352: IF ON SKIN: Wash with plenty of soap and water

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P332+P313: If skin irritation occurs: Get medical advice/attention.

P337+P313: If eye irritation persists: Get medical advice/attention.

P362+P364: Take off contaminated clothing and wash it before reuse.

Storage:

P402+P404: Store in a dry place. Store in a closed container.

P410+P403: Protect from sunlight. Store in a well-ventilated place.

Disposal:

P501: Dispose of contents/container according to all local, state and Federal regulations.

3. Composition/information on ingredients

Chemical name	% w/w	CAS No.
Proprietary Ingredients	1 - 10	TS
Water	95 - 100	7732-18-5
Didecyl Dimethyl Ammonium Chloride	≥ 0.5 - 1	7173-51-5
Alkyl (C12-16) dimethylbenzyl ammonium chloride	≥ 0.5 - 1	68424-85-1
Ethanol	≥ 0.3 - 0.5	64-17-5
Dye	< 0.1	TS
Fragrance	< 1	TS

4. First-aid measures

Eye: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

Skin: Wash with soap and water. Get medical attention if irritation develops or persists.

Ingestion: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

Inhalation: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.

5. Fire-fighting measures

Flammable class: None

Suitable extinguishing media: Dry powder, water spray, or foam.

Other considerations: Use water spray to cool unopened containers.

Explosion hazards: None

6. Accidental release measures

Environmental precautions

Water spill: Avoid discharges into open waterways and notify your local emergency services if this occurs.

Special protective equipment: Use personal protective equipment. Use respirator when performing operations involving potential exposure to vapor of the product.

7. Handling and storage

General procedures: Take precautionary measures against static discharges.

Precautions for safe handling: Avoid prolonged contact with skin and eyes. Do not swallow. Handle open container with care.

Conditions for safe storage: Store only in original container. Do not reuse empty container. If a leaky container must be contained within another, mark the outer container to identify the contents. Store pesticides away from food, pet food, feed, and water sources. Keep this product under locked storage sufficient to make it inaccessible to children or persons unfamiliar with its proper use.

Storage temperature: Store at ambient temperatures.

Storage pressure: Store at ambient atmospheric pressure.

8. Exposure controls/personal protection

Individual protection measures, such as personal protective equipment

Eye / face protection: Tightly fitting safety goggles

Skin protection - hand protection: Rubber or other chemical resistant gloves.

Respiratory protection: In the case of vapor formation use a respirator with an approved filter.

Skin protection - other: Choose body protection according to the amount and concentration of the dangerous substance at the work place. Impervious clothing.

Occupational hygiene practices: Wash with soap and water after handling. Do not eat, drink or smoke while using product.

9. Physical and chemical properties

Physical state: Liquid

Color: Yellow

Odor: Lemon

Odor threshold: Not Established

pH: 10.0 to 11.0

Freezing point: No data available

Initial boiling point and boiling range: Not yet Determined
Flash point: >200°F (>93°C)
Evaporation rate (n-butyl acetate = 1): No data available
Flammability: No data available
Lower explosion limit / flammability limit: N/A
Vapor pressure: No data available
Relative vapor density: No data available
Density: No data available
Relative density: No data available
Solubility: Complete
Auto-ignition temperature: NA = Not Applicable
Decomposition temperature: Not Available

10. Stability and reactivity

Reactivity: Stable
Dangerous polymerization: None known.
Conditions to avoid: None known.
Hazardous decomposition products: Thermal decomposition can lead to release of irritating gases and vapours.
Incompatible materials: None known.

11. Toxicological information

Acute toxicity

Chemical name	LD ₅₀ (oral) mg/kg(rat)	LD ₅₀ (dermal) mg/kg(rabbit)	LC ₅₀ (inhalation) mg/l
Didecyl Dimethyl Ammonium Chloride	312 mg/kg (rat)	> 2000 mg/kg (rat)	No data available

Acute oral toxicity LD₅₀: > 5000 mg/kg

Notes: Method: Calculation method

Skin corrosion / irritation: Severe skin irritation

Serious eye damage / irritation: Serious Eye Irritant

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmend human carcinogen by IARC.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

Notes: Confirmed animal carcinogen with unknown relevance to humans

Ethanol 64-17-5

12. Ecological information

Ecotoxicological information: No data available

13. Disposal considerations

Disposal methods: Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

For large spills: Consult with local and state authorities for large volume disposal.

14. Transport information

USA Department of Transport Regulations (DOT)

UN proper shipping name: Not regulated as a dangerous good.

Placards: None

Hazard label: None

ADR / RID - road / rail

UN proper shipping name: Not regulated as a dangerous good.

ICAO - air

UN proper shipping name: Not regulated as a dangerous good.

IMDG - sea

UN proper shipping name: Not regulated as a dangerous good.

15. Regulatory information

UNITED STATES

SARA Section 311/312 Hazard Categories

311/312 Health hazards: Health - Acute, See above: SECTION 2. Hazard Identification-GHS Classification

313 reportable ingredients: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

TSCA (The Toxic Substances Control Act)

TSCA regulatory: All ingredients are listed on the TSCA Chemical Inventory.

Clean air act (hazardous air pollutants):

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCM Intermediate or Final VOC's (40 CFR 60.489): Ethanol (CAS #: 64-17-5) at concentration $\geq 0.1 - < 1\%$

California Proposition 65: This product **does not** contain a chemical known in the state of California to cause cancer, birth defects or other reproductive harm.

FIFRA (federal insecticide, fungicide, and rodenticide act): Regulated

16. Other information

Reason for issue: Formulation Change

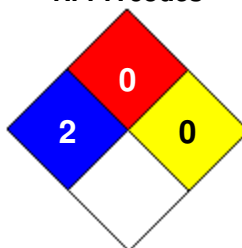
Prepared by: Regulatory Affairs Department **Date revised:** 06/10/2025

Revision summary: This SDS replaces the 03/20/2024 SDS. Revised: **Section 2:** Classification of the substance or mixture, Carcinogenicity, Emergency overview (Physical appearance), Mutagenicity, Potential health effects (Skin protection - hand protection, Skin absorption, Inhalation, Ingestion), Routes of entry, Teratogenic effects, Warning caution labels, Precautionary statement(s). **Section 3:** % w/w. **Section 4:** Acute toxicity, Eye, Most important symptoms and effects, both acute and delayed (Ingestion, Inhalation, Skin protection - hand protection, Skin absorption), Skin protection - hand protection. **Section 5:** Suitable extinguishing media, Hazardous decomposition products, Other considerations. **Section 6:** Air spill, General procedures, Land spill, Large spill, Release notes, Small spill, Special protective equipment. **Section 7:** General procedures, Precautions for safe handling, Conditions for safe storage. **Section 8:** Individual protection measures, such as personal protective equipment (Respiratory protection, Skin protection - other), Occupational hygiene practices. **Section 9:** Initial boiling point and boiling range, Density, Flash point, Freezing point, Percent volatiles, pH, Relative density, Viscosity, VOC content. **Section 10:** Conditions to avoid, Hazardous decomposition products, Dangerous polymerization, Incompatible materials. **Section 11:** Acute (LD₅₀ (dermal) mg/kg(rabbit), LD₅₀ (dermal) mg/kg(rabbit), LD₅₀ (oral) mg/kg(rat), LD₅₀ (oral) mg/kg(rat), LC₅₀ (inhalation) mg/l), IARC, NTP, OSHA, Carcinogenicity, Germ cell mutagenicity, , , Specific Target Organ Toxicity - single exposure, , Skin corrosion / irritation. **Section 12:** Ecotoxicological information, Aquatic toxicity, both acute and chronic. **Section 13:** Disposal methods, Empty container. **Section 14:** ICAO - air - UN proper shipping name USA Department of Transport Regulations (DOT) - UN proper shipping name U.S. Customs harmonization number, ADR / RID - road / rail - UN proper shipping name IMDG - sea - UN proper shipping name. **Section 15:** Carcinogen, CERCLA regulatory, EPCRA Section 302 Extremely Hazardous Substances, 311/312 health categories, 313 reportable ingredients, California Proposition 65, Clean air act (hazardous air pollutants). **Section 16:** HMIS rating (Personal protection), NFPA codes - Health.

HMIS rating

Health		2
Flammability		0
Physical hazard		0
Personal protection		B

NFPA codes



Manufacturer disclaimer: This company cannot anticipate all conditions of handling and use of this product. Therefore, this company accepts no responsibility for results obtained by the application of this information, or the safety and suitability of the product either alone or in combination with other products. It is the responsibility of the employer and/or user to provide a safe workplace, using health and safety information contained herein as a guide. This company will accept no liability for damages or losses incurred from the improper handling and use of this product.