

Lemon One Step

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Lemon One Step
GENERAL USE: Disinfectant, Virucide, Fungicide
PRODUCT DESCRIPTION: Heavy Duty Cleaner & Disinfectant
PRODUCT CODE: LOS
CHEMICAL FAMILY: Quaternary Ammonium Chloride

MANUFACTURER
MISCO Products Corporation
1048 Stinson Drive
Reading, PA 19605

24 HR. EMERGENCY TELEPHONE NUMBERS
CHEM-TEL (Medical and Transportation): 800-255-3924
POISON CONTROL CENTER (Medical): 800-222-1222

EPA REG. NO.: 10324-167-8325

2. HAZARDS IDENTIFICATION**GHS CLASSIFICATIONS****Health:**

Skin Irritation, Category 2
Eye Corrosion, Category 2A

Environmental:

Acute Hazards to the Aquatic Environment, Category 2

GHS LABEL

Exclamation
mark

SIGNAL WORD: DANGER

HAZARD STATEMENTS

H319: Causes serious eye irritation.
H315: Causes skin irritation.
H401: Toxic to aquatic life.

PRECAUTIONARY STATEMENT(S)**Prevention:**

P280: Wear protective gloves/protective clothing/eye protection/face protection.
P264: Wash hands thoroughly after handling.
P234: Keep only in original packaging.
P273: Avoid release to the environment.

Response:

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313: If eye irritation persists: Get medical advice/attention.
P302+P350: IF ON SKIN: Gently wash with plenty of soap and water.
P332+P313: If skin irritation occurs: Get medical advice/attention.
P362: Take off contaminated clothing.
P391: Collect spillage.

Storage:

P405: Store locked up.

Disposal:

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

EMERGENCY OVERVIEW

PHYSICAL APPEARANCE: Yellow liquid

IMMEDIATE CONCERNS: Severe eye irritant. Skin irritant.
POTENTIAL HEALTH EFFECTS
EYES: Irritating, and may injure eye tissue if not removed promptly.
SKIN: Contact may cause moderate to severe irritation.
SKIN ABSORPTION: None known.
INGESTION: May cause nausea, stomach cramps, vomiting.
REPRODUCTIVE TOXICITY
TERATOGENIC EFFECTS: None known.
CARCINOGENICITY: None known.
MUTAGENICITY: None known.
ROUTES OF ENTRY: Eye, skin, ingestion.
WARNING CAUTION LABELS: Irritant

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt.%	CAS
n-Alkyl dimethyl benzyl ammonium chloride (C12-C18)	0.781	68391-01-5
N-alkyl Dimethyl Ethyl Benzyl Ammonium Chloride (C12-C14)	0.781	68956-79-6
Nonylphenol Ethoxylate	0 - 5	9016-45-9
Tetrasodium ethylenediamine tetraacetate	0 - 5	64-02-8
Sodium Carbonate	0 - 5	497-19-8
Dye	< 0.1	TS
Fragrance	< 1	TS
Water	85 - 95	7732-18-5

COMMENTS: If CAS number is "TS", the specific chemical identity has been withheld as a trade secret.

4. FIRST AID MEASURES

EYES: Immediately flush eyes with water for at least 15 minutes, while holding eyelids open. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Seek medical attention immediately.
SKIN: Remove contaminated clothing. Immediately flush with water followed by washing with mild soap. Seek medical attention.
INGESTION: Get immediate medical attention. Do not induce vomiting unless instructed to do so by poison center or physician.
INHALATION: Remove victim to fresh air and monitor. Seek medical advise if irritation persists.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

EYES: Severe burning sensation, damage marked by burns.
SKIN: Burning sensation, redness.
INGESTION: Irritation of mouth, throat, along with stomach upset, vomiting.
INHALATION: Irritation of nose, throat and lungs with coughing, sneezing, possible difficulty breathing.
ACUTE EFFECTS: Corrosive to eyes. Causes moderate to severe skin irritation. Harmful if swallowed.

NOTES TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.

5. FIRE FIGHTING MEASURES

FLAMMABLE CLASS: None
EXTINGUISHING MEDIA: Not required.
EXPLOSION HAZARDS: None
HAZARDOUS DECOMPOSITION PRODUCTS: Decomposition products may include: Carbon dioxide, Carbon monoxide, nitrogen oxides.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Avoid runoff into storm sewers and ditches which lead to waterways.
LARGE SPILL: Avoid walking in material. Prevent product from entering into stream, soil, storm sewer or other bodies of water.
ENVIRONMENTAL PRECAUTIONS
WATER SPILL: Avoid discharges into open waterways.
LAND SPILL: Avoid discharge to soil.
AIR SPILL: NA = Not Applicable
GENERAL PROCEDURES: Isolate spill or leak area immediately. Keep unauthorized personnel away. Do not touch or walk through spilled material. Prevent entry into waterways, sewers, or confined areas. Absorb with dry earth, sand or other non-



combustible material and transfer to containers.
RELEASE NOTES: Product is toxic to fish and aquatic invertebrates.
SPECIAL PROTECTIVE EQUIPMENT: Eye protection, rubber gloves, rubber boots to protect feet.

7. HANDLING AND STORAGE

GENERAL PROCEDURES: Do not contaminate water, food, or feed by storage or disposal.
HANDLING: Avoid contact with skin and eyes. Wash hands before eating, drinking, smoking or using toilet facilities.
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

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Chemical splash goggles.
SKIN: Rubber or other chemical resistant gloves.
RESPIRATORY: A respirator is not needed under normal and intended conditions of product use.
WORK HYGIENIC 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
ODOR: Lemon
ODOR THRESHOLD: Not Established
COLOR: Yellow
pH: 10.0 to 11.5
PERCENT VOLATILE: >90
FLASH POINT AND METHOD: None
FLAMMABLE LIMITS: N/A
AUTOIGNITION TEMPERATURE: NA = Not Applicable
VAPOR PRESSURE: 20 mm Hg at (68°F)
VAPOR DENSITY: ~ 1 Air = 1
BOILING POINT: 212° F; 100° C
FREEZING POINT: 32° F; 0° C
THERMAL DECOMPOSITION: Not Available
SOLUBILITY IN WATER: Complete
EVAPORATION RATE: (Water =1) 1.0
DENSITY: 8.33 at 20°C (68°F)
SPECIFIC GRAVITY: 1 grams/ml. at 20°C (68°F)
VISCOSITY: Water thin.
(VOC): None

10. STABILITY AND REACTIVITY

REACTIVITY: Stable
HAZARDOUS POLYMERIZATION: Will not occur.
CONDITIONS TO AVOID: Not Established
HAZARDOUS DECOMPOSITION PRODUCTS: None Expected.
INCOMPATIBLE MATERIALS: Strong oxidizers

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY



Chemical Name	ORAL LD ₅₀ (rat)	DERMAL LD ₅₀ (rabbit)	INHALATION LC ₅₀ (rat)
n-Alkyl dimethyl benzyl ammonium chloride (C12-C18)	> 1890 mg/kg (rat)	> 2000 mg/kg (rabbit)	
N-alkyl Dimethyl Ethyl Benzyl Ammonium Chloride (C12-C14)	> 500 mg/kg (rat)	> 2000 mg/kg (rabbit)	
Nonylphenol Ethoxylate	16000 mg/kg (rat)	4490 mg/kg (rabbit)	
Tetrasodium ethylenediamine tetraacetate	3030 mg/kg (rat)	> 5000 mg/kg (rabbit)	
Sodium Carbonate	~ 4090 mg/kg (rat)	N/A	~ 5750 mg/l

DERMAL LD₅₀: > 2000 mg/kg male and female rabbits.

ORAL LD₅₀: > 5000 mg/kg Male and Female rats.

SKIN CORROSION/IRRITATION: Corrosive

GERM CELL MUTAGENICITY: No known significant effects or critical hazards.

CARCINOGENICITY

IARC: No products were found.

REPRODUCTIVE TOXICITY: No known significant effects or critical hazards.

STOT-SINGLE EXPOSURE: No known significant effects or critical hazards.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA: Not Established

ECOTOXICOLOGICAL INFORMATION: This product is toxic to fish and aquatic invertebrates.

AQUATIC TOXICITY (ACUTE): Not Established

CHEMICAL FATE INFORMATION: This product is biodegradable.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Attempt to use product completely in accordance with intended use. Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at your local office, or the nearest EPA regional office for guidance.

FOR LARGE SPILLS: Consult with local and state authorities for large volume disposal.

EMPTY CONTAINER: Triple rinse container promptly after emptying. Fill container 1/4 full with water and recap. Shake for 10 seconds. Drain and repeat. Offer for recycling if available or puncture and dispose in a sanitary landfill, or by other procedures approved by state and local authorities.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME: Not regulated.

PLACARDS: None

LABEL: None

U.S. CUSTOMS HARMONIZATION NUMBER: 3808.94.0000

AIR (ICAO/IATA)

SHIPPING NAME: Not regulated.

VESSEL (IMO/IMDG)

SHIPPING NAME: Not regulated.

15. REGULATORY INFORMATION

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

311/312 HAZARD CATEGORIES: Health - Acute

313 REPORTABLE INGREDIENTS: No listed substance

302/304 EMERGENCY PLANNING

EMERGENCY PLAN: No listed substance

TSCA (TOXIC SUBSTANCE CONTROL ACT)

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



STATES WITH SPECIAL REQUIREMENTS

Chemical Name	Requirements
Nonylphenol Ethoxylate	Massachusetts Right to Know Substance New Jersey Right To Know Substance Pennsylvania Right to Know Substance
Sodium Carbonate	Pennsylvania Right to Know Substance New Jersey Right To Know Substance

CALIFORNIA PROPOSITION 65: No listed substance

CARCINOGEN: No listed substance

FIFRA (FEDERAL INSECTICIDE, FUNGICIDE, AND RODENTICIDE ACT): Regulated

16. OTHER INFORMATION

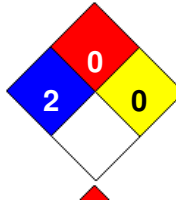
PREPARED BY: Regulatory Affairs Department

Date Prepared: 11/14/2014

HMIS RATING

HEALTH	2
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	B

NFPA CODES



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