

Issue Date 08-Aug-2011

Revision Date: 02-Dec-2013

Version 1.0

1. IDENTIFICATION

Product Identifier

Product Name Lemon Detergent Disinfectant (Ultimate #18 and CMS #24)

Other Means of Identification

Product Code 651800

Recommended Use of the Chemical and Restrictions on Use

Recommended Use Disinfectant concentrate. For industrial use.

Details of the Supplier of the Safety Data Sheet

Midlab, Inc.
140 Private Brand Way
Athens, TN 37303

Emergency Telephone Number

Company Phone Number Phone: 1-423-337-3180
Emergency Telephone (24 hr) INFOTRAC 1-352-323-3500 (International)
1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

Appearance Yellow

Physical State Liquid

Odor Lemon

Classification

Skin Corrosion/Irritation	Category 1
Serious Eye Damage/Eye Irritation	Category 1
Aquatic Toxicity: Acute	Category 2

Signal Word

Danger

Hazard Statements

Causes severe skin burns and eye damage.
Causes serious eye damage.
Toxic to aquatic life.



Precautionary Statements - Prevention

Do not breathe spray or mists.
Wash face, hands and any exposed skin thoroughly after handling.
Wear protective gloves and eye protection.
Avoid release to the environment.

Precautionary Statements - Response

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.
IF ON SKIN (or hair): Remove immediately all contaminated clothing. Wash with plenty of soap and water. Wash contaminated clothing before reuse.
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.
Specific treatment: Remove from exposure and treat symptoms.

Precautionary Statements - Storage

Store locked up.

Precautionary Statements - Disposal

Dispose of contents/container in accordance with local, regional, and/or national regulations.

Other Hazards

None known.

Unknown Acute Toxicity

None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Water	7732-18-5	60-100
Nonylphenoxyethoxyethanol	68412-54-4	1-5
Sodium Carbonate	497-19-8	1-5
Alkyl Dimethyl Benzyl Ammonium Chloride (C ₁₂₋₁₈)	68391-01-5	1-5
Alkyl Dimethyl Ethyl Benzyl Ammonium Chloride (C ₁₂₋₁₄)	85409-23-0	1-5
Ethanol	64-17-5	0.1-1

If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. FIRST-AID MEASURES**First Aid Measures**

Eye Contact	Causes irritation and/or burns and may result in permanent injury to eyes including blindness. Immediately flush eyes with water for 15-20 minutes, while holding eyelids open. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Seek medical attention at once.
Skin Contact	Causes irritation and/or corrosive burns. Brief exposure may cause irritation and defatting of the skin. Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for further treatment advice.
Inhalation	Mists and vapors can irritate the throat and respiratory tract. High vapor concentrations may cause central nervous system effects. Symptoms may include headaches, dizziness, drowsiness, and death. If symptoms are experienced, move victim to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison center or doctor for further treatment advice.
Ingestion	Although of moderate to low toxicity, ingestion can cause gastrointestinal irritation, nausea, vomiting, diarrhea, and death. Call a poison control center or doctor immediately for further treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.
Chronic	None known.

Most Important Symptoms and Effects

Symptoms Causes burns to the eyes and skin.

Indication of Any Immediate Medical Attention and Special Treatment Needed

Notes to Physician Treat symptomatically. Probable mucosal damage may contraindicate the use of gastric lavage.

5. FIRE-FIGHTING MEASURES**Suitable Extinguishing Media**Water spray (fog). Carbon dioxide (CO₂). Water. Foam.**Unsuitable Extinguishing Media**

Not determined.

Specific Hazards Arising from the Chemical

Irritating and toxic gases or fumes may be released during a fire.

Hazardous Combustion Products

Combustion products are toxic.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Personal Precautions	Wear protective clothing as described in Section 8 of this safety data sheet.
Environmental Precautions	Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information. See Section 13, Disposal Considerations, for additional information. See Section 12 for additional Ecological Information.

Methods and Material for Containment and Cleaning Up

Methods for Containment	Prevent from spreading or entering drains, ditches or rivers by using sand, earth, or other appropriate barriers.
Methods for Clean-Up	Contain and collect with an inert absorbent and place into an appropriate container for disposal. Rinse area with clean water and dry before permitting traffic.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Advice on Safe Handling	Handle in accordance with good industrial hygiene and safety practice. Use personal protection recommended in Section 8. For industrial and commercial use only. Avoid contact with skin, eyes or clothing.
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Conditions for Safe Storage, Including Any Incompatibilities

Storage Conditions	Keep container tightly closed and store in a cool, dry and well-ventilated place. Protect from freezing. Do not handle or store near an open flame, heat or other source of ignition. Prevent electrostatic charge buildup by using common bonding and grounding techniques. Keep out of the reach of children.
Incompatible Materials	None known based on information supplied.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Ethanol 64-17-5	1000ppm	1000ppm	1000ppm

Appropriate Engineering Controls

Engineering Controls	Ensure adequate ventilation, especially in confined areas. Good general room ventilation (equivalent to outdoors) should be adequate under normal conditions. Eyewash stations. Showers.
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Individual Protection Measures, such as Personal Protective Equipment

Eye/Face Protection	Eye protection should be used when splashing may occur.
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Skin and Body Protection Wear protective gloves when handling this product.

Respiratory Protection Under normal conditions, respirator is not normally required. Avoid breathing vapors.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

Physical State	Liquid	Odor	Lemon
Appearance	Clear	Odor Threshold	Not determined
Color	Yellow		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH (concentrate)	11.5-12.0	
Melting Point/Freezing Point	Approximately 32°F	
Boiling Point/Boiling Range	Approximately 212°F	
Flash Point	>200°F (>100°C)	Pensky Martin Closed Cup
Evaporation Rate	Not determined	
Flammability (Solid, Gas)	Liquid-not applicable	
Upper Flammability Limits	Not applicable	
Lower Flammability Limit	Not applicable	
Vapor Pressure	Not determined	
Vapor Density	Estimated to be heavier than air	
Specific Gravity	1.00	
Water Solubility	Completely soluble	
Solubility in other solvents	Not determined	
Partition Coefficient	Not determined	
Auto-ignition Temperature	Not determined	
Decomposition Temperature	Not determined	
Kinematic Viscosity	Not determined	
Dynamic Viscosity	Not determined	
Explosive Properties	Not an explosive	
Oxidizing Properties	Not determined	

10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions.

Chemical Stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Hazardous Polymerization

Hazardous polymerization does not occur.

Conditions to Avoid

Keep out of reach of children. Keep from freezing. Keep away from heat and strong oxidizing agents.

Incompatible Materials

Strong oxidizing agents (may result in fire), reducing agents.

Hazardous Decomposition Products

Thermal decomposition may produce carbon monoxide, carbon dioxide, and toxic chloride vapors.

11. TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure

Product Information

Eye Contact	Avoid contact with eyes. Corrosive
Skin Contact	Avoid contact with skin. Corrosive
Inhalation	Avoid breathing vapors or mists.
Ingestion	Do not taste or swallow.
Chronic Effects	Ingestion of ethanol by pregnant women can cause reproductive toxicity to the fetus.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Product as a whole	>1890mg/kg (Rat)	>2000mg/kg (Rabbit)	-

Information on Physical, Chemical and Toxicological Effects

Symptoms Please see section 4 of this SDS for symptoms.

Delayed and Immediate Effects as well as Chronic Effects from Short and Long-Term Exposure

Carcinogenicity This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

Numerical Measures of Toxicity

Not determined

12. ECOLOGICAL INFORMATION

Ecotoxicity**Component Information**

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Product as a whole	No data available for this product, but it is considered toxic to fish.			

Persistence/Degradability

Not expected to persist.

Bioaccumulation

Not expected to bioaccumulate.

Mobility

Not determined

Other Adverse Effects

Not determined

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods**Disposal of Wastes**

This substance, when discarded or disposed of, is a characteristic hazardous waste according to Federal regulation (40 CFR 261) and is assigned the EPA Hazardous Waste Number of D001. The discarding or disposal of this material must be done at a properly permitted facility in accordance with the regulations of 40 CFR 262, 263, 264, and 268. Additionally, the discarding or disposal of this material may be further regulated by state, regional, or local regulations. Chemical additions, processing or otherwise altering this material may make the waste management information presented in the SDS incomplete, inaccurate or otherwise inappropriate.

Contaminated Packaging

Disposal should be in accordance with applicable regional, national and local laws and

regulations.

14. TRANSPORT INFORMATION

Note Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

DOT NOI Non-Hazardous

IATA

IMDG

15. REGULATORY INFORMATION

International Inventories

Not determined

Legend:

- TSCA - United States Toxic Substances Control Act Section 8(b) Inventory*
- DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List*
- EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances*
- ENCS - Japan Existing and New Chemical Substances*
- IECSC - China Inventory of Existing Chemical Substances*
- KECL - Korean Existing and Evaluated Chemical Substances*
- PICCS - Philippines Inventory of Chemicals and Chemical Substances*

US Federal Regulations

CERCLA

None Listed

SARA 311/312 Hazard Categories

Immediate Fire.

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

CWA (Clean Water Act)

None known.

US State Regulations

None known

U.S. State Right-to-Know Regulations

The following ingredients appear on various state right to know lists and/or California's Proposition 65 List:

Chemical Name	State List
Benzyl Chloride 100-44-7 Trace<10ppm	AZ, CA, CAP65, CT, FL, ID, MA, MN, NJ, PA, RI
Ethanol 64-17-5 <0.5%	AZ, CA, CT, FL, ID, MA, MN, NJ, PA, RI

AZ- Arizona Ambient Air Quality Guidelines

CT- Connecticut Hazardous Air Pollutants

CA- California Director's List of Hazardous Substances

CAP65- California Prop65

FL- Florida Substances List

ID- Idaho Non-Carcinogen Toxic Air Pollutants

IL- Illinois Toxic Air Contaminant- Carcinogenic

MA- Massachusetts Right to Know List

MN- Minnesota Hazardous Substances List

NJ- New Jersey Right to Know List

PA- Pennsylvania Right to Know List

RI- Rhode Island Hazardous Substances List

FIFRA Label Information:

This chemical is a pesticide product registered by the United States Environmental 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 (SDS), and for workplace labels of non-pesticide chemicals. The pesticide label also includes other important information, including directions for use.

Danger
Corrosive
Causes irreversible eye damage and skin burns.
Harmful if swallowed, inhaled or absorbed through the skin.

This product is toxic to fish and aquatic invertebrates.

16. OTHER INFORMATION

<u>NFPA</u>	Health Hazards	Flammability	Instability	Special Hazards
	Not determined	Not determined	Not determined	Not determined
<u>HMIS</u>	Health Hazards	Flammability	Physical Hazards	Personal Protection
	3	0	0	Not determined

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Revision Date: 02-Dec-2013
Revision Note Update format Version 1.0

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

Keep Out of Reach of Children. For Industrial and Institutional Use Only.

*Denotes changes from last version.

End of Safety Data Sheet