

Material Safety Data Sheet

Date: 8-27-13



Section 1 – Product & Company Identification

Product Name: **Lucas-Cide**

Product ID Number: 831

Product Use: **Salon & Spa Sanitizer & Disinfectant**

Product Class: Quaternary Ammonium Compound

EPA Reg. Number: 10324-141-3974

Supplier:

Lucas Products Corporation

5655 Opportunity Drive

Toledo, OH 43612

419-476-5992

Telephone

Numbers:

24 hr. Emergency Assistance: Infotrac 1-800-535-5053

Section 2 – Composition/Information on Ingredients

INGREDIENT	CAS #	% by Weight	Exposure Limits	LC ₅₀ /LD ₅₀
Alkyl dimethyl benzyl ammonium chloride (C12-16)	68424-85-1	5% - 10%	Not established	Not established
Didecyl dimethyl ammonium chloride	7173-51-5	7% - 15%	Not established	Not established
Ethanol	64-17-5	0% - 5%	ACGIH TLV, OSHA PEL 1000 ppm (TWA) US, CANADA, MEXICO	Acute Oral LD50: >1000 mg/kg (Rats) Acute Dermal: >2000 mg/kg (Rats)

Section 3 – Hazards Identification

Emergency Overview: Corrosive to the eyes, skin, gastrointestinal tract, and respiratory system.

Potential Health Effects:

Skin: Causes corrosive burns. Brief exposures may cause irritation and defatting of the skin. Exposures not promptly washed off may lead to toxic effects similar to ingestion.

Harmful if absorbed through skin.

Eyes: Causes burns and may result in permanent injury to the eyes including blindness.

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, and drowsiness. Harmful if inhaled.

Ingestion: Can cause gastrointestinal irritation, swelling of the larynx, difficulty in breathing, circulatory shock, convulsions and possibly death.

Chronic: Ingestion of ethanol by pregnant women can cause reproductive toxicity to the fetus.

Section 4 – First Aid Measures

Eyes: 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/Clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

Inhalation: 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 control center or doctor for further treatment advice.

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 a poison control center or doctor. Do not give anything by mouth to an unconscious person.

Note to Physician: Probable mucosal damage may contraindicate the use of gastric lavage.

Section 5 – Fire Fighting Measures

Flash Point: None when heated to 105°C – Tag Closed Cup

Upper - Lower: Not determined

Extinguishing Media: Dry chemical, foam, carbon dioxide, water fog or any other agent suitable for surrounding fire.

Fire Fighting Equipment & Instructions: Firefighters should wear full protective clothing including self-contained breathing apparatus. Cool fire exposed containers with spray.

Hazardous Combustion Products: Irritating and toxic gases or fumes may be released during a fire.

Section 6 – Accidental Release Measures

Spill and Leak Procedures

Emergency Action: Isolate spill or leak area immediately. Keep unauthorized personnel away. Stay upwind. Keep out of low areas where vapors may accumulate. Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area).

Spill Cleanup: Stop leak if you can do so without risk. Prevent entry into waterways, sewers, basements or confined areas. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.

Section 7 – Handling & Storage

Handling Procedures: Avoid contact with skin and eyes. Use good personal hygiene practices. Wash thoroughly after using with soap and water.

Storage Procedures: Keep container tightly closed and in a cool, well-ventilated place. Keep from freezing. Do not handle or store near open flame, heat or other sources of ignition.

Section 8 – Exposure Controls/Personal Protection

Engineering Controls: Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits.

Personal Protective Equipment:

Eyes/Face: Wear chemical goggles. Use a face shield if splashing is possible.

Skin: Use rubber or neoprene gloves. Wear suitable protective clothing.

Respiratory: Not necessary unless exposure limits are exceeded, then use a NIOSH/MSNA approved respirator.

General: Eye wash fountain and emergency showers are recommended.

The following ingredients have established exposure guidelines:

INGREDIENT	EXPOSURE GUIDELINE	GUIDELINE VALUE
Ethanol (CAS# 64-17-5)	ACGIH TLV, OSHA PEL & NIOSH REL	1000 PPM (TWA)

All TWAs are for an 8-hour period and all STELs are for 15 minutes unless specifically noted as being for another time period.

Section 9 – Physical & Chemical Properties

Flash Point: None when heated to 105°C – Tag Closed Cup

Specific Gravity: 1.006

Percent Volatiles: Not determined.

VOC Content: < 1

Evaporation Rate: Not determined.

pH: 7 - 8

Appearance and Odor: pink colored liquid, no fragrance.

Section 10: Stability & Reactivity

Chemical Stability: Stable
Conditions to Avoid: Keep away from heat and oxidizing agents.
Incompatibilities: Strong oxidizing agents.
Hazardous Decomposition: Carbon monoxide, carbon dioxide and hydrogen chloride vapors.
Hazardous Polymerization: Will not occur.



Section 11 – Toxicological Information

Carcinogenicity: No Carcinogenicity data available for this product.
Acute Oral LD50: >1,000 mg/kg in male and female rats.
Acute Dermal LD50: > 2,000 mg/m3 in male and female rabbits.
Primary Skin: Corrosive.
Primary Eye: Corrosive.

CHEMICAL INGREDIENTS LISTED AS POTENTIAL OR KNOWN CARCINOGENS

INGREDIENT	OSHA	NTP	IARC
No ingredients listed in this section.			

Section 12 – Ecological Information

Ecotoxicity: No data available for this product but considered toxic to fish.
Environmental Fate: This product is biodegradable.

Section 13 – Disposal Considerations

Disposal Instructions: 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 this MSDS incomplete, inaccurate or otherwise inappropriate.
The transportation, storage, treatment and disposal of this waste material must be conducted in compliance with all applicable Federal, state, and local regulations.

Section 14 – Transportation Information

DOT Hazard Class: 8, Corrosive
DOT Proper Shipping Name: UN1903, 8, (Quaternary Ammonium Compound), Disinfectant Liquid, NOS, PGIII

Section 15 – Regulatory Information

TSCA Status
While all ingredients are listed on the TSCA Chemical Inventory, this product is regulated as a pesticide under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA) and not subject to the TSCA Inventory rules for FIFRA uses.

Other Chemical Inventories

All components of this product are listed on the following inventories: Canada (DSL), China, and Philippines. One or more ingredients are not listed on the following inventories: Australia, Japan, European Union, Korea.

CERCLA/SARA

SARA Title III, Sections 311/312 – This act requires reporting under the Community Right-to-Know provisions due to the inclusion of the following components of this material in one or more of the five hazard categories listed in the 40 CFR 370: Classification of this product: Immediate, Fire

SARA Title 313 – This act requires submission of annual reports of releases of the following components of this material if the threshold reporting quantities, as listed in 40 CFR 372, are met or exceeded:

CHEMICAL NAME	CAS NO.	MAXIMUM CONCENTRATION	COMMENT
---------------	---------	-----------------------	---------

No ingredients listed in this section.

Reportable Quantities/Threshold Planning Quantities: CERCLA requires notification of the National Response Center (Telephone 1-800-424-8802) in the event of a release of quantities of the following hazardous materials contained in this product, if the release is equal to or greater than the Reportable Quantities (RQs). SARA 302/304 requires emergency planning, including agency notification, for possible release of the following components of this material, based upon the Threshold Planning Quantities (TPQs) and/or release of Reportable Quantities.

CHEMICAL NAME	REPORTABLE QUANTITY (RQ)	THRESHOLD PLANNING QUANTITY (TPQ)
---------------	--------------------------	-----------------------------------

No ingredients listed in this section.

State & Provincial Right to Know & Selected Regulatory Lists

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

CHEMICAL NAME	STATE LIST
Benzyl Chloride (trace < 100 ppm)	AZ, CA, CAP65C, CT, IL, MA, MN, NJ, PA, RI
Ethanol	AZ, CA, CT, ID, MA, MN, NJ, PA, RI
AZ – Arizona Ambient Air Quality Guidelines	IL – Illinois Toxic Air Contaminant – Carcinogenic
CT – Connecticut Hazardous Air Pollutants	MA – Massachusetts Right to Know List
CA – California Director's List of Hazardous Substances	MN – Minnesota Hazardous Substance List
CA65C – California Prop 65 Carcinogen	NJ – New Jersey Right to Know List
CA65R – California Prop 65 Reproductive Toxin	PA – Pennsylvania Right to Know List
FL – Florida Substances List	RI – Rhode Island Hazardous Substance List
ID – Idaho Non-carcinogen Toxic Air Pollutants	

WHMIS Classification: E, D2B. This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

Section 16 – Other Information

Hazard Ratings

Hazard Ratings

Hazard Rating Scale:

4 = Extreme

3 = High

2 = Moderate

1 = Slight

0 = Insignificant

HEALTH	2
FLAMMABILITY	0
REACTIVITY	0

The seller makes no warranty expressed or implied concerning the accuracy of any results to be obtained from the use of any information and no warranty expressed or implied concerning the use of the products. The buyer assumes all risks of the use and/or handling.

LUCAS PRODUCTS CORPORATION

SAFETY DATA SHEET

LCP 827 – Lucas-Cide RTU Salon & Spa Disinfectant

Date: 9/1/2017

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name Lucas-Cide RTU Salon & Spa Disinfectant

Other Means of Identification

Product Class Quaternary Ammonium Compound
EPA Registration Number 10324-85-3974
Product Code 827

Recommended Use of the Chemical and Restrictions on Use

Recommended Use Disinfectant cleaner for all surfaces

Details of the Supplier of the Safety Data Sheet

Manufactured for Address Lucas Products Corporation
5655 Opportunity Drive, Suite 1
Toledo, OH 43612

Emergency Telephone Number

Company Phone Number (419) 476-5992
Emergency Telephone INFOTRAC 1-352-323-3500 (International)
1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

Classification

Health Hazards

Skin corrosion/ Irritation	Category 2
Serious eye damage/eye irritation	Category 2 Sub-Category A

Signal Word

WARNING

Hazard Statements

May cause eye and skin irritation.
Harmful if swallowed.

OSHA/HCS status:

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). 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. Read complete product label.



Appearance Red

Physical State Liquid

Odor Fragrance Free

NOTE: Pictograms not permitted on label. EPA Reg. Product
See section 15 Regulatory Information

Precautionary Statements - Response

Immediately call a POISON CENTER or doctor/physician

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

Seek medical attention if irritation occurs or persists.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. Seek medical attention if irritation develops.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Seek medical attention if irritation occurs or persists.

IF SWALLOWED: Immediately call a doctor or poison control center. Rinse mouth. DO NOT induce vomiting

Precautionary Statements - Storage

Store locked up. Keep container tightly closed when not in use. Store in a cool, well ventilated place. KEEP OUT OF REACH OF CHILDREN.

Precautionary Statements - Disposal

Dispose of contents/container in accordance with all regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Quaternary Ammonium Compounds (C12-C-16) Benzyl & Alkyldimethyl Chlorides	68424-85-1	0 - 5
Dimethylaurylamine oxide	1643-20-5	0 - 5
2-aminoethanol	141-43-5	0 - 5
Isopropyl Alcohol	67-63-0	0 - 5
Tetrasodium ethylenediaminetetraacetate	64-02-8	0 - 5

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

Inhalation	Move to fresh air. If breathing is difficult give oxygen. If symptoms persist, call a physician.
Eye Contact	Immediately flush with plenty of water. Remove contact lenses and continue flushing with water for 15 minutes. Call a physician if irritation occurs or persists.
Ingestion	Do NOT induce vomiting. Rinse mouth. Call a poison control center or doctor immediately for treatment advice. Never give anything by mouth to an unconscious person.
Skin Contact	Take off contaminated clothing. Rinse skin with plenty of water for 15 minutes. Call a poison control center or doctor for treatment advice if irritation occurs.

Indication of any Immediate Medical Attention and Special Treatment Needed

Ingesting large amounts of this product may produce gastrointestinal disturbances including irritation, nausea, and diarrhea.

Note to Physicians	Treat symptomatically.
---------------------------	------------------------

5. FIRE-FIGHTING MEASURES**Suitable Extinguishing Media**

Water fog, foam, dry chemical powder. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media

None known

Specific Hazards Arising from the Chemical

Irritating and toxic gasses or fumes may be released during a fire. Use water spray to keep fire-exposed containers cool.

Protective Equipment and Precautions for Firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

6. ACCIDENTAL RELEASE MEASURES**Personal Precautions, Protective Equipment and Emergency Procedures**

Personal Precautions Immediately evacuate personnel to safe areas. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Do not breathe vapors.

Methods and Material for Containment and Cleaning Up

Methods for Containment Keep unnecessary and unprotected personnel away. Shut off all ignition sources. Prevent further leakage or spillage if safe to do so. Local authorities should be advised if significant spillages cannot be contained.

Methods for Cleaning Up Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into container for later disposal. Do not flush into surface water or sanitary sewer system. Dispose of the waste material according to local, state and government requirements. Following product recovery, flush area with water.

7. HANDLING AND STORAGE**Precautions for Safe Handling**

Advice on Safe Handling Protect material from direct sunlight. Do not breathe vapor. Use personal protective equipment as required. Ensure adequate ventilation, especially in confined areas. Avoid contact with skin, eyes or clothing. Do not taste or swallow. In case of insufficient ventilation, wear suitable respiratory equipment. Use only with adequate ventilation or outdoors. Wash hands thoroughly after handling.

Conditions for Safe Storage, Including any Incompatibilities

Storage Conditions Store locked up. Keep containers tightly closed in a dry, cool and well ventilated place with a temperature not lower than 50°F or higher than 120°F. Keep away from heat, sparks and open flame. Store out of direct sunlight, and away from incompatible materials. .

Incompatible Materials Incompatible with strong oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Isopropyl Alcohol 67-63-0	TWA: 200 ppm STEL: 400 ppm	TWA: 400 ppm	-

Appropriate Engineering Controls

Engineering Controls Ensure adequate ventilation, especially in confined areas. Eye wash facilities and emergency shower must be available when handling this product.

Individual Protection Measures, such as Personal Protective Equipment

Eye/Face Protection	Tight sealing safety goggles, face protection shield.
Skin and Body Protection	Wear protective gloves.
Respiratory Protection	If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.
General Hygiene Considerations	When using this product do not eat, drink, or smoke. Wash contaminated clothing before reuse. 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	Fragrance Free
Appearance	Red Liquid	Odor Threshold	N/A
Color	Red		
<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>	
pH	9-12		
Flash Point	None when heated to 102°C / 215°F	Cleveland Open Cup	
Evaporation Rate	Not determined		
Specific Gravity	1.0		
Explosion Hazards	None Expected		
Water Solubility	Complete		

10. STABILITY AND REACTIVITY

Chemical Stability

Stable under normal use, storage and transport conditions.

Possibility of Hazardous Reactions

None under normal processing and storage.

Conditions to Avoid

Avoid heat, sparks, open flames and other ignition sources. Contact with incompatible materials.

Incompatible Materials

Strong oxidizing agents, reducing agents.

Hazardous Decomposition Products

Upon decomposition, this product may yield oxides of carbon, hydrocarbons, fumes and smoke.

11. TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure

Inhalation	Not likely, due to the form of the product.
Eye Contact	Contact with eyes may cause eye irritation.
Skin Contact	Contact may cause skin irritation.
Ingestion	Harmful if swallowed.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Isopropyl Alcohol 67-63-0	5050 mg/kg (Rat)	12800 mg/kg (Rabbit)	-
2-aminoethanol 141-43-5	1515 mg/kg (Rat)	2504 mg.kg (Rabbit)	>1.3 mg/l 6h
Quaternary Ammonium Compounds 68424-85-1	430 mg/kg	3560 mg/kg	
Dimethylaurylamine oxide 1643-20-5	3625 mg/kg (Rat)		

Information on Physical, Chemical and Toxicological Effects

Symptoms May cause irritation to the eyes including redness, tearing, and blurred vision.

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

Carcinogenicity No components of this product have been identified as a carcinogen or potential carcinogen by ACGIH, OSHA, IARC or NTP.

Unknown Acute Toxicity None known

12. ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacean
Quaternary Ammonium Compounds 68424-85-1		LC50: Bluegill 0.515 mg/l		NOEL: Daphnia 0.0042 mg/l
Isopropyl Alcohol 67-63-0		LC50: Fish 9640 mg/l 96 h		EC50: Crustaceans 1400 mg/l 48 h
2-aminoethanol 141-43-5	EC50 Selenastrum capricornutum 2.5 mg/l 72 h	LC50: Cyprinus carpio 349 mg/l 96 h		EC50 Daphnia magna 65 mg/l 48 h

Persistence and Degradability

Expected to be biodegradable

Bioaccumulation

The potential to accumulate or bio-magnify in the environment is low.

Other Adverse Effects

No information available.

13. DISPOSAL CONSIDERATIONS

Disposal of Wastes Disposal of this product, solutions and any by-products must comply with the requirements of the EPA and regional local authority requirements.

Containers Disposal should be in accordance with the requirements of the EPA 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.

US – Ground Transportation:**DOT** Not Regulated**IATA** Not Regulated**IMDG** Not Regulated**15. REGULATORY INFORMATION****International Inventories**

A “Yes” indicates that all components of this product comply with the inventory requirements administered by the governing country (s). A “No” indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country (s).

TSCA	United States Toxic Substances Control Act Section 8(b) Inventory	Yes
DSL	Canadian Domestic Substances List	Yes
NDSL	Non-Domestic Substances List	No
EINECS	European Inventory of Existing Chemical Substances	Yes
ELINCS	European List of Notified Chemical Substances	No
ENCS	Japan Existing and New Chemical Substances	Yes
IECSC	China Inventory of Existing Chemical Substances	Yes
KECL	Korean Existing and Evaluated Chemical Substances Yes	Yes
PICCS	Philippines Inventory of Chemicals and Chemical Substances	Yes
New Zealand	New Zealand Inventory	Yes

US Federal Regulations

This product is a pesticide 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.

EPA Registration Number 10324-85-3974**SARA 313** Not regulated**US State Regulations**

Chemical Name	New Jersey	Massachusetts	Pennsylvania
2- aminoethanol 141-43-5	X	X	X
Isopropyl Alcohol 67-63-0	X		X

California Proposition 65 No ingredients listed**16. OTHER INFORMATION**

<u>NFPA</u>	Health Hazards	Flammability	Instability	
	1	0	0	
<u>HMIS</u>	Health Hazards	Flammability	Physical Hazards	Personal Protection
	1	0	0	B

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.

End of Safety Data Sheet