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MATERIAL SAFETY DATA SHEET



unisource®

LEM-O-QUAT Disinfectant Cleaner Deodorizer

HMIS		NFPA	Personal protective equipment	
Health	3	3		
Fire Hazard	0	0		
Reactivity	0	0		

Version Number: 3

Preparation date: 2007-06-07

Product name: LEM-O-QUAT Disinfectant Cleaner Deodorizer
 MSDS #: MS0600024
 Product Code: U23056, U23057
 Recommended use: Disinfectant. This product is intended to be diluted prior to use.

Manufacturer, importer, supplier:
 Unisource Worldwide, Inc.
 6600 Governors Lake Parkway
 Norcross, GA 30071
 Phone: 770-447-9000
 MSDS Internet Address: www.unisourceink.com

Emergency telephone number: 1-888-660-6737

EMERGENCY OVERVIEW

DANGER. CORROSIVE TO EYES. CAUSES EYE BURNS. CAUSES SKIN IRRITATION. HARMFUL OR FATAL IF SWALLOWED.

Principle routes of exposure: Eye contact. Skin contact. Inhalation. Ingestion.
 Eye contact: Corrosive. Causes permanent eye damage, including blindness.
 Skin contact: Severe skin irritation.
 Inhalation: May cause irritation and corrosive effects to nose, throat and respiratory tract.
 Ingestion: Corrosive. Causes burns to mouth, throat and stomach.

HAZARDOUS COMPONENTS

Ingredient(s)	CAS #	Weight %	LD50 Oral - Rat	LD50 Dermal - Rabbit	LC50 Inhalation - Rat
Didecyl dimethyl ammonium chloride	7173-51-5	1 - 5%	=84 mg/kg	Not available	Not available
n-Alkyl (C14 50%, C12 40%, C16 10%) dimethyl benzyl ammonium chloride	8001-54-5	1 - 5%	=240 mg/kg	Not available	Not available
Ethyl alcohol	64-17-5	0.1 - 1.5%	=1501 mg/kg	Not available	=124.7 mg/L (4 h)

Eye contact: Immediately flush eyes with running water for 15-20 minutes, keeping eyelids open. Get medical attention immediately.
 Skin contact: Immediately flush with plenty of water for at least 15 minutes. Get medical attention.
 Inhalation: If breathing is affected, remove to fresh air. Get medical attention immediately.
 Ingestion: If swallowed, rinse mouth. Give a cupful of water or milk. THEN IMMEDIATELY CONTACT A PHYSICIAN OR POISON CENTER. DO NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.
 Aggravated Medical Conditions: Individuals with chronic respiratory disorders such as asthma, chronic bronchitis, emphysema, etc., may be more susceptible to irritating effects.

Suitable extinguishing media: Use dry chemical, CO2, water spray or "alcohol" foam. Extinguish fire using agent suitable for surrounding fire.
 Specific hazards: Not applicable
 Unusual hazards: Corrosive material (See sections 8 and 10).
 Specific methods: No special methods required

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1 of 3

Special protective equipment for firefighters: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear
Extinguishing media which must not be used for safety reasons: No information available

Personal precautions: Use personal protective equipment
Environmental precautions and clean-up methods: Use appropriate containment to avoid environmental contamination. Soak up with inert absorbent material. Shovel into suitable container for disposal. Use a water rinse for final clean-up. Material is toxic to fish. Do not discharge into lakes, streams, ponds, or public water unless in accordance with an NPDES permit.

Handling:
 Avoid contact with skin, eyes and clothing. Do not taste or swallow. Avoid breathing vapors or mists. Use only with adequate ventilation. Remove and wash contaminated clothing and footwear before re-use. Wash thoroughly after handling. Product residue may remain on/in empty containers. All precautions for handling the product must be used in handling the empty container and residue. **FOR COMMERCIAL AND INDUSTRIAL USE ONLY.**
Storage:
 Protect from freezing. Keep tightly closed in a dry, cool and well-ventilated place. **KEEP OUT OF REACH OF CHILDREN.**

Engineering measures to reduce exposure:
 Good general ventilation should be sufficient to control airborne levels. Respiratory protection is not required if good ventilation is maintained.

Personal Protective Equipment

Eye protection: Chemical-splash goggles.
Hand protection: Chemical-resistant gloves
Skin and body protection: If major exposure is possible, wear suitable protective clothing and footwear.
Respiratory protection: If aerosols, mists, vapors, or dust are not adequately controlled by ventilation, use appropriate respiratory protection to avoid over-exposure. A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.
Hygiene measures: Keep away from food, drink and animal feeding stuffs. Handle in accordance with good industrial hygiene and safety practice.

Ingredient(s)	CAS #	ACGIH	OSHA	Mexico
Ethyl alcohol	64-17-5	1000 ppm (TWA)	1000 ppm (TWA) 1900 mg/m ³ (TWA)	1000 ppm (TWA) 1900 mg/m ³ (TWA)

Physical State: Liquid	Bulk density: No information available
pH: 7.2-8.2	Dilution pH: No information available.
Appearance: Aqueous solution	Vapor density: No information available
Color: Yellow	Evaporation Rate: No information available
Odor: Lemon	Boiling point/range: Not determined
Specific gravity: 1.0	Melting point/range: Not determined
Density: 8.32	Decomposition temperature: Not determined
VOC: 0.7	Autoignition temperature: No information available
Flash point: >200°F >83.3°C	Partition coefficient (n-octanol/water): No information available
Solubility: Soluble	Solubility in other solvents: No information available
Viscosity: No information available	

Stability: The product is stable
Polymerization: Hazardous polymerization does not occur
Hazardous decomposition products: None reasonably foreseeable.
Materials to avoid: Strong exothermic reaction with acids.

Acute toxicity: Corrosive Oral LD50 estimated to be >1000 and <5000 mg/kg
Component Information: See Section 3