

CUST257

ELEMENTARY SCHOOLS
215 SE 6th Avenue
Hillsboro, OR 97123

MATERIAL SAFETY DATA SHEET

CM 0224

NATIONAL SANITARY SUPPLY CO.
3217 S. Figueroa Street
Los Angeles, California 90061
Emergency Tel. No. 1-301-535-5053 (INFOTRAC)
Call 1-314-313-3541 (NSS Regulatory Affairs)
for MSDS Information

EPA Reg. # 47371-131-11700

MATERIAL SAFETY DATA SHEET

SECTION 1. IDENTIFICATION OF PRODUCT

Product Name: LFM-U-QUAT (A)

Date Issued: 06/05/93 FD
Supersedes: NONE
National Item#: 1722XX

SECTION 2. INGREDIENTS CAS NUMBER PERCENT EXPOSURE LIMITS IN AIR CSHA PEL ACCIM TLV OTHER

ACTIVE INGREDIENTS:

*ALKYL DIMETHYLBENZYL AMMONIUM CHLORIDE	139-73-2	1.54%	N/E	N/E
*DIDECYLDIMETHYL AMMONIUM CHLORIDE	7173-51-3	2.31%	N/E	N/E

OTHER INGREDIENTS:

ETHANOL	64-17-5	<1	1000ppm	1000ppm
ETHYLENEDIAMINE				
TETRAACETIC ACID	60-50-4	<1	N/E	N/E
DICYL DIMETHYL AMINE OXIDE	2605-78-9	<1	N/E	N/E
SODIUM HYDROXIDE	1310-73-2	<1	2 mg/m ³	2 mg/m ³
FRAGRANCE	NONE	<1	N/D	N/D
WATER	7732-18-5	BALANCE	NONE	NONE

*THESE MATERIALS ARE SUBJECT TO THE REPORTING REQUIREMENTS UNDER
SAFETY TITLE III, SECTION 303 AND 40 CFR PART 372.
*THESE MATERIALS MUST HAVE APPROPRIATE FEDERAL AND STATE EPA REGISTRATIONS
PRIOR TO SALE AND DISTRIBUTION.
N/A = Not Applicable; N/D = Not Determined

SECTION 3. PHYSICAL DATA

Boiling Point (F): 212F	Specific Gravity (CONCENTRATE) (WATER=1): 1.01
Vapor Pressure (mm Hg.): N/E	Percent Volatile (By Volume%): > 75%
Vapor Density (Air=1): N/E	Evaporation Rate (=1): N/A
Solubility in water: COMPLETE	pH Range: 6.5 - 7.5
Appearance and Odor: YELLOW LIQUID/LEMON FRAGRANCE	

Section 4. FIRE AND EXPLOSION HAZARD DATA

Flash Point (Test Method): N/A
Flammability: NON-FLAMMABLE
Auto-Ignition Temp.: N/A
Flammable Limits: LEL=N/A UEL=N/A
Extinguishing Media: DRY CHEMICAL, WATER FOG, CO₂, FOAM

Special Fire Fighting Procedures: OSHA/NIOSH APPROVED SELF-
CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING.

Unusual Fire & Explosion Hazards: PRODUCT OF COMBUSTION ARE TOXIC.

SECTION 5. REACTIVITY DATA

Stability: STABLE
Conditions to Avoid: NONE KNOWN TO NSS
Hazardous Polymerization: WILL NOT OCCUR
Materials to Avoid: ANIONIC DETERGENTS. DO NOT MIX WITH OTHER CHEMICALS.
Hazardous Decomposition Products: THERMAL DECOMPOSITION MAY PRODUCE TOXIC
FUMES. MAY CONSIST OF CO, CO₂, HCl, SMALL AMOUNTS OF PHOSGENE, CHLORINE
AND ORGANIC VAPORS OF UNKNOWN COMPOSITION.

SECTION 6. SPILL, LEAK AND DISPOSAL PROCEDURES

Small Spills: (For Liquid Concentrate) RINSE AREA THOROUGHLY WITH WATER.
Large Spills: (For Liquid Concentrate) WEAR APPROPRIATE PROTECTIVE CLOTHING/EQUIPMENT. DIKE AREA TO CONTAIN SPILL. CLEAN UP USING ABSORBENT MATERIAL. PLACE ALL CONTAMINATED MATERIAL IN A CLOSED CONTAINER FOR DISPOSAL.
Disposal: UNDILUTED (Liquid Concentrate) PRODUCT RECOVERED FROM SPILLS MAY BE SENT TO LICENSED DISPOSAL FACILITY TO BE DISPOSED OF IN ACCORDANCE WITH FEDERAL/STATE REGULATIONS AND LOCAL ORDINANCES.
Contain. Disp.: LIQUID CONCENTRATE CONTAINERS MUST BE TRIPLE RINSED AND DISCARDED PER LOCAL, STATE AND FEDERAL REGULATIONS IF NOT RECYCLED. DO NOT FLUSH TO SEWER.

SECTION 7. HEALTH HAZARD DATA

Primary Routes of Entry: INHALATION, SKIN, INGESTION
Overexposure Symptoms:
Eye Contact: EYE IRRITANT. IF NOT PROMPTLY TREATED, EYE DAMAGE MAY RESULT (CORNEAL INJURY).
Skin Contact: SKIN IRRITANT. IRRITATION CAN OCCUR FROM CONTACT WITH CONCENTRATED PRODUCT OR FROM PROLONGED CONTACT. MILD IRRITATION DUE TO DEFATTING OF SKIN.
Inhalation: EXCESSIVE INHALATION OF MISTS CAN BE HARMFUL AND MAY CAUSE HEADACHE, DIZZINESS, ASPHYXIA, ANESTHETIC EFFECTS AND POSSIBLE UNCONSCIOUSNESS.
Ingestion: POSSIBLE CHEMICAL PNEUMONITIS IF ASPIRATED INTO LUNGS, NAUSEA. MAY CAUSE STOMACH PAIN/CRAMPS, VOMITING AND NAUSEA. LDS NOT ESTABLISHED.
Chronic Health Hazards: NONE KNOWN TO NSS.

SECTION 8. EMERGENCY AND FIRST AID PROCEDURES

Eyes: IMMEDIATELY FLUSH THE EYE WITH LARGE QUANTITIES OF FRESH, RUNNING WATER FOR A MINIMUM OF 15 MINUTES. HOLD THE EYELIDS APART DURING THE IRRIGATION TO ENSURE FLUSHING OF THE ENTIRE SURFACE OF THE EYE LID WITH WATER. GET MEDICAL ATTENTION IF IRRITATION PERSISTS.
Skin: WASH THE AFFECTED AREA WITH SOAP AND WATER. REMOVE CONTAMINATED CLOTHES AND SHOES. WASH CLOTHING BEFORE REUSE. GET MEDICAL ATTENTION IF IRRITATION PERSISTS.
Ingestion: REQUIRES IMMEDIATE MEDICAL MANAGEMENT. DRINK MILK OR WATER. VOMITING SHOULD BE INDUCED ONLY ON RECOMMENDATION OF MEDICAL PERSONNEL. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.
Inhalation: MOVE PERSON TO FRESH AIR. RESUSCITATE IF NECESSARY. IF SYMPTOMS OF RESPIRATORY DISCOMFORT PERSISTS, GET MEDICAL ATTENTION.

SECTION 9. SPECIAL PROTECTION INFORMATION

Respiratory Protection: AVOID EXPOSURE TO SPRAY OR MIST. WHERE REQUIRED (IN THE ABSENCE OF APPROPRIATE VENTILATION) USE NIOSH APPROVED ORGANIC RESPIRATOR.
Ventilation: ROOM VENTILATION MUST BE ADEQUATE TO MAINTAIN VAPOR CONCENTRATION BELOW TLV.
Protective Gloves: NEOPRENE (RUBBER) GLOVES RECOMMENDED.
Eye Protection: CHEMICAL GOGGLES/EYE PROTECTION.
Other Measures: APPROPRIATE PROTECTIVE EQUIPMENT WHEN GROSS EYE/SKIN CONTACT MAY OCCUR. AVOID FOOD CONTAMINATION. WASH WITH SOAP AND WATER AFTER USE/APPLICATION. EYE WASH ACCESSIBILITY RECOMMENDED.



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Product Name: LEM-0-QUAT (A)
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SECTION 10. ADDITIONAL PRECAUTIONS

Handling and Storage: STORE IN COOL, DRY PLACE. FOLLOW LABEL DIRECTIONS.
KEEP OUT OF REACH OF CHILDREN. DO NOT STORE ON SIDE. AVOID CREASING
OR IMPACTING SIDE WALLS OF CONTAINER.
MSHA Title III Ratings: Acute: YES Chronic: NO Fire: NO
Pressure Release: NO Reactivity: NO

MSIS Ratings: HEALTH -1 FIRE -0 REACTIVITY -0 PROTECTION -B
NFPA Ratings: HEALTH -1 FIRE -0 REACTIVITY -0 SPECIAL -

SECTION 11. REGULATORY CLASSIFICATIONS

NA-181 Proper Shipping Name (DOT):
NA-181 Description (DOT):
Proper Shipping Name Code: UN Number: PG#:

THIS MATERIAL IS AN EPA REGISTERED PRODUCT.

VOC Content: Theoretical = ___ lb/gal. Typical Analytical = N/A lbs./gal.
Phosphorous: % Concentrate = NONE Dilution Range: N/A-N/A gms./gal.

THE INFORMATION ON THIS MATERIAL SAFETY DATA SHEET REPRESENTS THE LATEST
DATA AND BEST OPINION AS TO THE PROPER USE AND HANDLING OF THIS PRODUCT
UNDER NORMAL CONDITIONS. ANY USE OF THIS PRODUCT OR METHOD OF
APPLICATION WHICH IS NOT IN CONFORMANCE WITH THIS DATA SHEET AND THE
PRODUCT LABEL DIRECTIONS, IS THE RESPONSIBILITY OF THE USER. THIS
MATERIAL SAFETY DATA SHEET WAS PREPARED TO COMPLY WITH THE OSHA HAZARD
COMMUNICATION REGULATION.