

LW CHEMICALS, INC.

PO BOX 205 - MT. OLIVE , ILLINOIS 62069 - 217-999-4444

LW CHEMICALS, INC. MATERIAL SAFETY DATA SHEET

PRODUCT NAME: SurfaSan

DATE: 1/1/09

MANUFACTURER'S NAME: LW CHEMICALS, INC.

PO BOX 205

MT. OLIVE, IL 62069

(217) 999-4444

EMERGENCY TELEPHONE NUMBER: 1-800-424-9300 CHEMTREC

SECTION I. PRODUCT IDENTIFICATION

PRODUCT NAME: SurfaSan

DESCRIPTION

CHEMICAL MIXTURE: Quaternary ammonium EPA Reg. No. 10324-63-64071

HEALTH: 2

FLAMMABILITY: 0

REACTIVITY: 0

SPECIAL: 0

SECTION II. HAZARDOUS INGREDIENTS

CAS NUMBER PEL(OSHA)	HAZARDOUS COMPONENT	%	TLV(ACGIH)
85409-23-0	n-Alkyl dimethyl ethylbenzyl ammonium chlorides	5	
68391-01-5	n-Alkyl dimethyl benzyl ammonium chlorides	5	

SECTION III. PHYSICAL/CHEMICAL DATA

APPEARANCE AND ODOR: Clear, colorless liquid-
sweet amine odor

SPECIFIC GRAVITY (WATER = 1): .99

MELTING POINT: NA

EVAPORATION RATE (WATER = 1): NA

BOILING POINT: NA

FREEZING POINT: 29 F

VAPOR PRESSURE: NA

PHOSPHORUS (% P): NA

VAPOR DENSITY (AIR = 1): NA

pH at 25°C, 1% sol'n: 6.0

SOLUBILITY IN WATER: 100%

OTHER: NA

PERCENT VOLATILE (BY WEIGHT): 50%

LW CHEMICALS, INC.

SECTION IV. FIRE AND EXPLOSIVE HAZARD DATA

FLASH POINT: NA
 FLAMMABLE LIMITS IN AIR, % BY VOLUME: NA
 EXTINGUISHING MEDIA: Water fog, foam CO₂, or dry chemical

SPECIAL FIRE FIGHTING HAZARDS AND PROCEDURES: This product is combustible, Good fire fighting practice dictates use of self-contained breathing apparatus and turn-out gear for fires in the vicinity of this product. Protect eyes and skin from contact. Material emits fumes when heated to boiling.

SECTION V. REACTIVE HAZARDS

STABILITY: Stable
 INCOMPATIBILITIES: Do not mix with soap or anionic surfactants as inactivation of the antimicrobial activity will occur.
 HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition may form hazardous oxides of carbon and nitrogen.
 HAZARDOUS POLYMERIZATION: Will not.
 CONDITIONS TO AVOID: Avoid mixing with chlorine bleach or strong oxidizing agents like nitric acid as toxic gases or combustion may result.

SECTION VI. HEALTH HAZARDS

SYMPTOMS OF EXPOSURE:

EYES: Concentrated solution may cause non-reversible burns or eye damage. Contact may result in severe irritation of conjunctive or corneal clouding.

SKIN: Prolonged contact may cause severe skin irritation, swelling, and redness.

INGESTION: Swallowing of product may cause gastric irritation, pain, nausea, and vomiting. Symptoms may include tenderness, difficulty in breathing and convulsions.

INHALATION: Breathing mists or vapors may cause irritation to mucous membranes of throat and difficulty in breathing.

PRINCIPLE ROUTES OF ABSORPTION:

DIRECT CONTACT: Yes INGESTION: No INHALATION: No SKIN: Yes

EFFECTS OF OVEREXPOSURE:

ACUTE: Causes severe eye irritation or burns. CHRONIC: None known

CHEMICAL LISTED AS CARCINOGEN
 OR POTENTIAL CARCINOGEN: No

NATIONAL TOXICOLOGY
 PROGRAM: No

I.A.R.C. MONOGRAPHS: No

OSHA: No

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: None

LW CHEMICALS, INC.

FIRST AID PROCEDURE - NEVER GIVE FLUIDS OR INDUCE VOMITING IF PATIENT IS UNCONSCIOUS OR HAVING CONVULSIONS. CALL A PHYSICIAN.

EYES: Flush immediately with water for 15 minutes. Get immediate medical attention.

SKIN: Wash exposed skin with mild soap and water. Laundry contaminated clothing before rewearing.

INGESTION: If swallowed, drink milk or water, egg white, or gelatin solutions. DO NOT induce vomiting. Avoid alcohol. Call a physician immediately. Note to Physician: Probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, respiratory depression, and convulsion may be needed.

INHALATION: If inhaled, remove to fresh air. Call a physician if breathing difficulty develops.

SECTION VII. HANDLING PROCEDURES/PROTECTIVE INFORMATION

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Keep container closed when moving or when not in use. KEEP OUT OF REACH OF CHILDREN. Do not store with food. Store in a ventilated area.

VENTILATION:

1. LOCAL EXHAUST: No - usually not needed.
2. MECHANICAL (general): Cartridge respirator for organic mists during bulk transfer
3. RESPIRATORY PROTECTION (type): Avoid breathing spray mists

PROTECTIVE CLOTHING: Clean, body-covering clothing. In addition, rubber gloves, boots, and apron, depending upon the exposure likely, or as required by your company.

EYE PROTECTION: Chemical Workers Goggles recommended. Full face shield recommended when transferring material.

OTHER PROTECTIVE EQUIPMENT: Eye Fountain and Safety Shower in work area.

SECTION VIII. SPILL OR LEAK CONTROL PROCEDURES

CORROSIVE ACTION ON MATERIALS: None known

STEPS TO BE TAKEN IN CASE OF SPILLS: Mop up or absorb with clay or soil. Place in a metal container and bury in an approved chemical landfill. Rinse affected areas with water.

WASTE DISPOSAL METHODS: This product is toxic to fish. Do not discharge to lakes, ponds, or streams, Usually accepted by sanitary sewer systems when diluted. Do not re-use drum. Destroy by perforating or crushing and bury in an approved landfill. Consult environmental regulations.