

# MATERIAL SAFETY DATA SHEET

This MSDS complies with OSHA'S Hazard Communication Standard 29 CFR 1910.1200 and OSHA Form 174

| IDENTITY AND MANUFACTURER'S INFORMATION  |  |
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| <b>NFPA Rating:</b> Health-3; Flammability-0; Reactivity-0; Special- -                                     | <b>HMIS Rating:</b> Health-3; Flammability-0; Reactivity-0; Personal Protection-B  |
| Manufacturer's Name: <b>LYN DISTRIBUTING</b><br>Address: 965 No. Redwood Road<br>No. Salt Lake, Utah 84054 | <b>DOT Hazard Classification:</b> Corrosive Material, 8<br><b>Identity</b> (trade name as used on label):<br><b>E-2 HAND CLEANER &amp; SANITIZER</b> |
| Date Prepared: 09/10/03 Prepared By: S.H.  | <b>MSDS Number:</b> N2001-6 Revision - 6   |
| Information Calls: (801)295-5022<br><b>EMERGENCY RESPONSE NUMBER: 1(800)366-5022</b>                       | NOTICE: JUDGMENT BASED ON INDIRECT TEST DATA   |

## SECTION 1 - MATERIAL IDENTIFICATION AND INFORMATION

| COMPONENTS-CHEMICAL NAMES AND COMMON NAMES<br>(Hazardous Components 1% or greater; Carcinogens 0.1% or greater) | CAS Number | SARA III LIST | OSHA PEL (ppm) | ACGIH TLV (ppm) | Carcinogen Ref. Source ** |
|---|------------|---------------|----------------|-----------------|---------------------------|
| <b>N-ALKYL DIMETHYL BENZYL AMMONIUM CHLORIDE</b>  | 68391-01-5 | No            | N/E            | N/E             | d                         |
| <b>ETHYL ALCOHOL</b>  | 64-17-5    | No            | 1000           | 1000            | d                         |
| <b>N-ALKYL DIMETHYL ETHYL BENZYL AMMONIUM CHLORIDES</b>   | 68956-79-6 | No            | N/E            | N/E             | d                         |
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## SECTION 2 - PHYSICAL/CHEMICAL CHARACTERISTICS

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| <b>Boiling Point:</b> 100°C  | <b>Specific Gravity</b> (H2O=1): 1.00                            |
| <b>Vapor Pressure:</b> PSIG @ 70°F (Aerosols): N/A   | <b>Vapor Pressure</b> (Non-Aerosols)(mm Hg and Temperature): N/D |
| <b>Vapor Density</b> (Air = 1): N/D  | <b>Evaporation Rate</b> ( water = 1): 1                          |
| <b>Solubility in Water:</b> Miscible   | <b>Water Reactive:</b> No  |
| <b>Appearance and Odor:</b> Clear, colorless, viscous water based liquid with characteristic odor. |  |

## SECTION 3 - FIRE AND EXPLOSION HAZARD DATA

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| <b>FLAMMABILITY</b> as per USA FLAME PROJECTION TEST (aerosols) N/A    | <b>Auto Ignition Temperature</b> N/A  | <b>Flammability Limits in Air by % in Volume:</b><br>% LEL: N/A % UEL: N/A |
| <b>FLASH POINT AND METHOD USED</b> (non-aerosols): None (water based). | <b>SPECIAL FIRE FIGHTING PROCEDURES:</b> Product is not combustible, but if heated to decomposition in a fire it can liberate toxic fumes. If so, firefighters should wear supplied air respirator. See Section #4. |  |
| <b>EXTINGUISHER MEDIA:</b> Use media applicable to surrounding fire.   | <b>Unusual Fire &amp; Explosion Hazards:</b> If heated to decomposition in a fire, this product can liberate toxic fumes. See Section #4.   |  |

## SECTION 4 - REACTIVITY HAZARD DATA

|   |   |
|---|---|
| <b>STABILITY</b> [ X ] STABLE [ ] UNSTABLE  | <b>HAZARDOUS POLYMERIZATION</b> [ ] WILL [ X ] WILL NOT OCCUR |
| <b>Incompatibility</b> (Mat. to avoid): Strong oxidizing or reducing agents.  | <b>Conditions to Avoid:</b> Temperatures above 140°F.         |
| <b>Hazardous Decomposition Products:</b> Oxides of carbon, nitrogen, hydrogen chloride, unidentified organic compounds. |   |

## SECTION 5 - HEALTH HAZARD DATA

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| <b>PRIMARY ROUTES OF ENTRY:</b> [ ] INHALATION [ ] INGESTION [ X ] SKIN ABSORPTION [ ] EYE [ ] NOT HAZARDOUS  |  |
| <b>ACUTE EFFECTS</b>  |  |
| <b>Inhalation:</b> Mists of product can cause irritation to mucous membranes.   |  |
| <b>Eye Contact:</b> Direct contact can cause severe irritation, possibly damage.  | <b>Skin Contact:</b> Repeated contact can cause severe irritation. |
| <b>Ingestion:</b> Immediate burning pain in mouth, throat, abdomen, severe swelling of larynx. Skeletal muscle paralysis, circulatory shock, convulsions. |  |
| <b>CHRONIC EFFECTS:</b> None known.   |  |
| <b>Medical Conditions Generally Aggravated by Exposure:</b> Dermatitis, bronchitis, conjunctivitis, sinusitis.  |  |

## EMERGENCY FIRST AID PROCEDURES

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| <b>Eye Contact:</b> Flush with water for 15 minutes. If irritation persists, get medical attention.   |
| <b>Skin Contact:</b> Wash thoroughly with soap and water.   |
| <b>Inhalation:</b> Remove to fresh air.   |
| <b>Ingestion:</b> DO NOT INDUCE VOMITING. Drink 3 to 4 glasses of water or large quantity of milk, egg whites or gelatin solution. Get immediate medical attention. |

## SECTION 6 - CONTROL AND PROTECTIVE MEASURES

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| <b>Respiratory Protection (specify type):</b> None normally needed.  |  |
| <b>Protective Gloves:</b> Rubber   | <b>Eye Protection:</b> Safety glasses or chemical goggles. |
| <b>Ventilation Requirements:</b> Normal room ventilation is adequate.  |  |
| <b>Other Protective Clothing &amp; Equipment:</b> Clothing as needed to minimize contact. Eyewash station and safety shower. |  |
| <b>Hygienic Work Practices:</b> Do not eat, drink or smoke in work area. Wash hands after handling.                          |  |

## SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE

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| <b>Steps To Be Taken If Material Is Spilled Or Released:</b> Contain spill. Do not contaminate sewers, surface waters or ground waters. Soak up spill in inert absorbent material. Place in leak-proof containers. Seal & label properly for disposal. |
| <b>Waste Disposal Methods:</b> Dispose of in accordance with all local, state and federal regulations.   |
| <b>Precautions To Be Taken In Handling &amp; Storage:</b> Store in original shipping containers. Keep closed when not in use. Shelf life 1 year. Protect from freezing.  |
| <b>Other Precautions &amp;/or Special Hazards:</b> KEEP OUT OF REACH OF CHILDREN. Read & follow label directions.  |

We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind.

\*\* Chemical Listed as Carcinogen or Potential Carcinogen. [a] NTP [b] IARC Monograph [c] OSHA [d] Not Listed [e] Animal Data Only