

**I MANUFACTURER AND PRODUCT IDENTIFICATION**

DATE: 09/24/04  
TRADE NAME: LEMON GUARD  
GENERAL OR GENERIC ID: CLEANING COMPOUND  
MANUFACTURER: ATLANTIC SOLUTIONS INC.  
125 N. CHATHAM PKWY.  
CHAPEL HILL, NC. 27517  
(800) 476-0895 (919) 933-4250  
24 HR. INFOTRAC NUMBER: (800) 535-5053

**HMIS RATING:** HEALTH (2) FLAMMABILITY (1) REACTIVITY (0) PROTECTION (B)  
4 = EXTREME, 3 = HIGH, 2 = MODERATE, 1 = SLIGHT, 0 = INSIGNIFICANT \* = CHRONIC HAZARD

**II HAZARDOUS INGREDIENTS / IDENTITY INFORMATION**

INGREDIENTS	CAS#	ACGIH / TLV	OSHA PEL	%OPTIONAL
WATER	7732-18-5	NE	NE	
DI (C8-10) ALKYL DIMETHYL AMMONIUM CHLORIDES	68424-95-3	NE	NE	
ALKYL DIMETHYL BENZYL AMMONIUM CHLORIDE	68424-85-1	NE	NE	
ETHANOL	64-17-5			

**III PHYSICAL / CHEMICAL CHARACTERISTICS**

BOILING RANGE: NOT KNOWN  
VAPOR PRESSURE (mm hg): NOT KNOWN  
VAPOR DENSITY, (AIR = 1): EST. >1  
SOLUBILITY IN WATER: SOLUBLE  
pH: 6.5-7.5  
APPEARANCE AND ODOR: YELLOW LIQUID, LEMON SCENTED

SPECIFIC GRAVITY (WATER = 1): .99  
PERCENT VOLATILE: N/A  
EVAPORATION RATE (BUTYLACETATE = 1): EST. <1

**IV FIRE AND EXPLOSION DATA**

FLASH POINT, (METHOD USED): N/A. DOES NOT SUPPORT COMBUSTION  
FLAMMABLE LIMITS: N/A  
EXTINGUISHING MEDIA: USE FOAM, DRY CHEMICAL, WATER FOG. USE WATER TO COOL FIRE EXPOSED CONTAINERS AND TO PROTECT PERSONNEL.  
FIRE FIGHTING PROCEDURES: FIREFIGHTERS SHOULD WEAR FULL PROTECTIVE CLOTHING INCLUDING SELF CONTAINED BREATHING APPARATUS  
HAZARDOUS COMBUSTION PRODUCTS: IRRITATING AND TOXIC GASES OR FUMES MAY BE RELEASED DURING A FIRE.

**V REACTIVITY DATA**

STABILITY DATA: STABLE UNDER NORMAL CONDITIONS.  
INCOMPATIBILITY (MATERIALS TO AVOID): THIS PRODUCT IS INCOMPATIBLE WITH STRONG OXIDIZING AGENTS.  
HAZARDOUS DECOMPOSITION OR BYPRODUCTS: UPON DECOMPOSITION TEMPERATURES, CARBON MONOXIDE, CARBON DIOXIDE, AND OXIDES OF NITROGEN CAN BE RELEASED  
HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

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**VI HEALTH HAZARD DATA**

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**ROUTES OF ENTRY-SIGNS AND SYMPTOMS:**

**INHALATION:** CAN BE IRRITATING TO THE RESPIRATORY TRACT AND MUCOUS MEMBRANES. HIGH VAPOR OR AEROSOL MIST CONCENTRATIONS MAY BE IRRITATING TO THE NOSE, THROAT AND UPPER RESPIRATORY TRACT. HIGH VAPOR CONCENTRATIONS MAY CAUSE CENTRAL NERVOUS SYSTEM EFFECTS. EFFECTS MAY INCLUDE HEADACHES, DIZZINESS, DROWSINESS, ANESTHETIC AND MAY HAVE OTHER CENTRAL NERVOUS SYSTEM EFFECTS.

**SKIN:** THIS PRODUCT MAY CAUSE IRRITATION TO THE SKIN. PROLONGED OR REPEATED CONTACT WITH THIS PRODUCT MAY DRY AND/OR DEFAT THE SKIN.

**EYES:** CONTACT CAN BE SEVERLY IRRITATING TO THE EYES AND MAY CAUSE EYE BURNS.

**INGESTION:** MAY CAUSE IRRITATION OF THE MOUTH, THROAT AND GASTROINTESTINAL TRACT. INGESTION MAY RESULT IN CENTRAL NERVOUS SYSTEM EFFECTS INCLUDING HEADACHE, SLEEPINESS, DIZZINESS, SLURRED SPEECH AND BLURRED VISION.

**EMERGENCY FIRST AID PROCEDURES**

**INHALATION:** IF THE AFFECTED PERSON IS NOT BREATHING, APPLY ARTIFICIAL RESPIRATION. IF INHALED, IMMEDIATELY REMOVE THE AFFECTED PERSON TO FRESH AIR. IF BREATHING IS DIFFICULT, GIVE OXYGEN. IF SYMPTOMS PERSIST, GET MEDICAL ATTENTION.

**INGESTION:** IF MATERIAL IS SWALLOWED, GET IMMEDIATE MEDICAL ATTENTION.

**EYE CONTACT:** IMMEDIATELY FLUSH EYES WITH WATER FOR AT LEAST 15 MINUTES, WHILE HOLDING EYELIDS OPEN. SEEK MEDICAL ATTENTION AT ONCE.

**SKIN CONTACT:** FOR SKIN CONTACT FLUSH WITH LARGE AMOUNTS OF WATER. IMMEDIATELY TAKE OFF ALL CONTAMINATED CLOTHING. IF IRRITATION PERSISTS, GET MEDICAL ATTENTION.

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**VII PRECAUTIONS FOR DISPOSAL, SAFE HANDLING, AND USE**

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ISOLATE SPILL OR LEAK IMMEDIATELY. ELIMINATE ALL IGNITION SOURCES. DO NOT TOUCH OR WALK THROUGH SPILLED MATERIAL. STOP LEAK IF YOU CAN DO IT WITHOUT RISK. PREVENT ENTRY INTO WATERWAYS, SEWERS, BASEMENTS OR CONFINED AREAS. A VAPOR SUPPRESSING FOAM MAY BE USED TO REDUCE VAPORS. ABSORB OR COVER WITH DRY EARTH, SAND OR OTHER NON-COMBUSTIBLE MATERIAL AND TRANSFER TO CONTAINERS. USE CLEAN NON-SPARKING TOOLS TO COLLECT ABSORBED MATERIAL.

**LARGE SPILLS:** DIKE AHEAD OF LIQUID SPILL FOR LATER DISPOSAL. WATER SPRAY MAY REDUCE VAPOR.

**WASTE DISPOSAL METHOD:** DISPOSE OF IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS.

**CONTAINER DISPOSAL:** TRIPLE RINSE (OR EQUIVALENT). THEN OFFER FOR RECYCLING OR RECONDITIONING, OR PUNCTURE AND DISPOSE OF IN A SANITARY LANDFILL, OR INCINERATION, OR IF ALLOWED BY STATE AND LOCAL AUTHORITIES, BY BURNING. IF BURNED, STAY OUT OF SMOKE.

**VIII PERSONAL PROTECTION INFORMATION**

- RESPIRATOR PROTECTION:** *WHERE MIST OR VAPORS ARE GENERATED BY THE PROCESS OR IF EXPOSURE LIMITS ARE EXCEEDED OR IF IRRITATION IS EXPERIENCED, A NIOSH/MSHA JOINTLY APPROVED RESPIRATOR IS ADVISED IN THE ABSENCE OF PROPER ENVIRONMENTAL CONTROLS. VENTILATION AND OTHER FORMS OF ENGINEERING CONTROLS ARE OFTEN THE PREFERRED MEANS FOR CONTROLLING CHEMICAL EXPOSURES. RESPIRATORY PROTECTION MAY BE NEEDED FOR NON-ROUTINE OR EMERGENCY SITUATIONS.*
- VENTILATION:** *PROVIDE ADEQUATE LOCAL EXHAUST VENTILATION TO MAINTAIN WORKER EXPOSURE BELOW EXPOSURE LIMITS. IN PROCESSES WHERE MISTS OR VAPORS MAY BE GENERATED, PROPER VENTILATION MUST BE PROVIDED IN ACCORDANCE WITH GOOD VENTILATION PRACTICES.*
- PROTECTIVE GLOVES:** *RUBBER OR NEOPRENE, WHEN NEEDED, TO PREVENT SKIN CONTACT.*
- EYE PROTECTION:** *WEAR CHEMICAL SPLASH GOGGLES WHERE THERE IS A POTENTIAL FOR EYE CONTACT. USE SAFETY GLASSES WITH SIDE SHIELDS UNDER NORMAL USE CONDITIONS.*
- EXPOSURE GUIDELINES:**
- |  |                          |
|--|--------------------------|
| ETHANOL:                               |                          |
| ACGIH-TWA                              | 1000 PPM TWA             |
| NIOSH-HEALTH STANDARDS EXPOSURE LIMITS | 1000 PPM; 1900 MG/M3     |
| OSHA-FINAL PELS-TWA                    | 1000 PPM; 1900 MG/M3 TWA |

**IX STORAGE AND HANDLING**

- HANDLING PROCEDURES:** *AS WITH ALL CHEMICALS, GOOD INDUSTRIAL HYGIENE PRACTICES SHOULD BE FOLLOWED WHEN HANDLING THIS MATERIAL. REMOVE CONTAMINATED CLOTHING AND WASH BEFORE REUSE. AVOID CONTACT WITH EYES. THOROUGHLY WASH WITH SOAP AND WATER AFTER WORK.*
- STORAGE PROCEDURES:** *AVOID FREEZING. KEEP THE CONTAINER TIGHTLY CLOSED AND IN A COOL, WELL-VENTILATED PLACE. DO NOT HANDLE OR STORE NEAR AN OPEN FLAME, HEAT OR OTHER SOURCES OF IGNITION.*

**X TOXICITY INFORMATION**

*THERE IS NOT DATA AVAILABLE ON CARCINOGENICITY FOR THIS PRODUCT*

*ACGIH 1999 – CARCINOGENS A4 – NOT CLASSIFIABLE AS A HUMAN CARCINOGEN.*

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**IX TRANSPORTATION**

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THIS PRODUCT IS NOT REGULATED BY THE D.O.T. BY ANY MODE OF TRANSPORTATION.

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