

MATERIAL SAFETY DATA SHEET

PRODUCT IDENTIFICATION

PRODUCT NAME: LIME OUT (HMIS RATINGS)

PART #: LIMEOUT HEALTH: 2 FIRE: 0

REACTIVITY: 1

PRODUCT INFORMATION MEDICAL EMERGENCY

(800) 262-0012 (856) 455-4555

TRANSPORTATION EMERGENCY DISTRIBUTOR / MANUFACTURER

CHEMTREC (800) 424-9300 NATIONAL REFRIGERANTS, INC. 661 KENYON AVE. ROSENHAYN, NJ

HAZARDOUS INGREDIENTS

OSHA Hazardous Components (29 CFR 1910.1200) EXPOSURE LIMITS: 8 HR. TWA

 Phosphoric Acid (CAS# 7664-38-2)
 OSHA PEL 1mg/cu.m
 ACGIH TLV 1mg/cu.m

 Citric Acid (CAS# 77-92-9)
 NE NE
 NE

 Surfactant Package (CAS # NA)
 NE
 NE

HAZARDS IDENTIFICATIONS

ROUTE(S) OF ENTRY: Inhalation? No Skin? Yes Ingestion? Yes

HEALTH HAZARDS (ACUTE & CHRONIC): Material is corrosive in nature. Can cause severe chemical burns. If mixed or

comes in contact with chlorine based material can cause dangerous fumes.

CARCINOGENICITY: NTP? No IARC? No OSHA Regulated? No

SIGNS AND SYMPTOMS OF EXPOSURE: Skin redness or irritation, respiratory irritation, nausea, dizziness. MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Skin or respiratory sensitivity.

FIRST AID MEASURES

INHALATION: Remove to fresh air.

EYE CONTACT: Hold eyelids open and flush with water immediately and continue for 15 minutes. **SKIN CONTACT:** Remove contaminated clothing and wash affected area with soap and water.

INGESTION: Drink plenty of water and or egg whites.

SEEK MEDICAL ATTENTION IN ALL CASES.

FIRE FIGHTING MEASURES

FLASH POINT: None

FLAMMABLE LIMITS: LOWER: Not Applicable UPPER: Not Applicable

SPECIAL FIRE FIGHTING PROCEDURES: Self-contained respiratory protection should be provided for firemen fighting in

buildings or confined areas.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Thermal decomposition emits toxic fumes or oxide of phosphorus.

EXTINGUISHING MEDIA: All types are acceptable.

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ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE OF RELEASE OR SPILL: Dike spill, add water and soda ash to neutralize spill. Collect and hold in a plastic container.

HANDLING AND STORAGE

PRECAUTIONS FOR HANDLING STORAGE: Keep away from heat, sparks, open flame or direct sunlight. Do not puncture or incinerate

OTHER PRECAUTIONS: Intentional misuse by deliberately concentration and inhaling vapor contents can be harmful.

EXPOSURE CONTROLS/PERSONAL PROTECTION

RESPIRATORY PROTECTION: Use NIOSH approved respirator if limits are exceeded.

VENTILATION: Local exhaust:: Yes Mechanical exhaust (General): Yes

Special: None Other: None

PROTECTIVE GLOVES: Polyfluorinated or polyvinyl alcohol or viton.

EYE PROTECTION: Safety goggles or face shield.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Plastic or rubber apron.

WORK/HYGIENIC PRACTICES: Wash hands after use.

PHYSICAL AND CHEMICAL PROPERTIES

VAPOR PRESSURE: @ 70° F 8-2 MM HG VAPOR DENSITY: (Air=1) Non-Volatile

SPECIFIC GRAVITY: (H20=1): 1.5-1.7 EVAPORATION RATE: (N-BUTYL ACETATE=1) >1

SOLUBILITY IN WATER: Complete
APPEARANCE & ODOR: Light green color, slight odor

BOILING POINT: 240° F
MELTING POINT: None

STABILITY AND REACTIVITY

STABILITY: Stable

CONDITIONS TO AVOID: See below

INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxides and alkaline agents.

HAZARDOUS DECOMPOSITION OR PRODUCTS: See fire hazards.

HAZARDOUS POLYMERIZATION: Will not occur.

TOXICOLOGICAL INFORMATION

No Data Available.

ECOLOGICAL INFORMATION

No Data Available.

DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Dispose of all waste in accordance with local, state and federal regulations.

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TRANSPORTATION INFORMATION

IDENTIFICATION NUMBER: UN1805 PROPER SHIPPING NAME: Phosphoric Acid

HAZARD CLASS: 8

No Data Available.

PROPER SHIPPING DESCRIPTION: UN1805, Phosphoric Acid, 8, PGIII

REGULATORY INFORMATION

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DATE OF LATEST REVISION/REVIEW: 1/2013 **PERSON RESPONSIBLE FOR MSDS:** Matt Callahan