

## Lime Delete

Revision: 03/05/2015

Distributor: International Market Brands 21500 Alexander Road, Cleveland, OH 44146 (440)439-0600

## 1. Product and Company Identification

<b>Product Code:</b>	4087	
<b>Product Name:</b>	Lime Delete	
<b>Company Name:</b>	PDQ Manufacturing, Inc. 201 Victory Circle Ellijay, GA 30540	<b>Phone Number:</b> (706)636-1848
<b>Web site address:</b>	www.pdqonline.com	
<b>Emergency Contact:</b>	Chemtrec, Use Company Code: A814	(800)424-9300
<b>Information:</b>	info@pdqonline.com	(706)636-1848

## 2. Hazards Identification

Skin Corrosion/Irritation, Category 1B

Oxidizing Liquids, Category 1

Skin Corrosion/Irritation, Category 1A

Serious Eye Damage/Eye Irritation, Category 1

**GHS Signal Word:** Danger**GHS Hazard Phrases:**

H271 - May cause fire or explosion; strong oxidizer.  
 H314 - Causes severe skin burns and eye damage.  
 H318 - Causes serious eye damage.

**GHS Precaution Phrases:**

P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
 P220 - Keep away from combustible materials.  
 P221 - Take any precaution to avoid mixing with combustibles/...  
 P264 - Wash hands thoroughly after handling.  
 P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
 P283 - Wear fire/flame resistant/retardant clothing.

**GHS Response Phrases:**

P301+330+331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
 P303+361+353 - IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.  
 P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
 P305+351+338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a poison control center or physician for treatment advise. Have product container or label with you when calling poison control center or physician.  
 P306+360 - IF ON CLOTHING: Rinse immediately contaminated clothing and skin with plenty of water before removing clothes.  
 P310 - Immediately call a POISON CENTER or doctor/physician.  
 P321 - Specific treatment see ... on this label.  
 P363 - Wash contaminated clothing before reuse.  
 P371+380+375 - In case of major fire and large quantities: evacuate area and fight fire remotely due to the risk of explosion.

**GHS Storage and Disposal Phrases:**

P405 - Store locked up.  
 P501 - Unused product is not a RCRA Hazardous waste. However, contaminated product and wastes may be RCRA hazardous. Users are advised to determine the appropriate disposal method based on local, state and federal regulations and comply with those regulations.

**Potential Health Effects (Acute and Chronic):** Hazards not otherwise classified (HNOC) or not covered by GHS. None.  
Chronic:

**Inhalation:** Causes chemical burns to the respiratory tract. No hazard expected in normal industrial use.

**Skin Contact:** Causes skin burns. Non-irritating to the skin.

**Eye Contact:** Causes eye burns. Non-irritating to the eyes.

**Ingestion:** Causes gastrointestinal tract burns. No hazard expected in normal industrial use.

### 3. Composition/Information on Ingredients

CAS #	Hazardous Components (Chemical Name)	Concentration
7664-38-2	Phosphoric acid {Orthophosphoric acid}	10.0 -30.0 %
7697-37-2	Nitric acid {Hydrogen nitrate}	1.0 -5.0 %

### 4. First Aid Measures

**Emergency and First Aid Procedures:** Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

**In Case of Inhalation:** Remove from exposure and move to fresh air immediately. If breathing is difficult, give oxygen. Consult a physician.

**In Case of Skin Contact:** Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.

**In Case of Eye Contact:** Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately. Continue rinsing eyes during transport to hospital.

**In Case of Ingestion:** Get medical aid immediately. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

**Signs and Symptoms Of Exposure:** The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

**Note to Physician:** None known.

### 5. Fire Fighting Measures

**Flash Pt:** NA Method Used: Estimate

**Explosive Limits:** LEL: UEL:

**Autoignition Pt:** NA

**Suitable Extinguishing Media:** Use foam, dry chemical, or carbon dioxide.

**Fire Fighting Instructions:** As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Substance is noncombustible. Wear self contained breathing apparatus for fire fighting if necessary. Further information. Material will not burn.

**Flammable Properties and Hazards:**

## 6. Accidental Release Measures

<b>Protective Precautions, Protective Equipment and Emergency Procedures:</b>	Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. For personal protection see section 8.
<b>Environmental Precautions:</b>	Do not let product enter drains. Methods and materials for containment and cleaning up: Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).
<b>Steps To Be Taken In Case Material Is Released Or Spilled:</b>	Use proper personal protective equipment as indicated in Section 8. Spills/Leaks: Do not let this chemical enter the environment. Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container.

## 7. Handling and Storage

<b>Precautions To Be Taken in Handling:</b>	Do not breathe dust, vapor, mist, or gas. Do not get in eyes, on skin, or on clothing. Do not ingest or inhale. Keep away from sources of ignition - No smoking. Keep away from heat and sources of ignition.
<b>Precautions To Be Taken in Storing:</b>	Store in a cool, dry place. Keep container tightly closed in a dry and well-ventilated place. No special storage requirements.

## 8. Exposure Controls/Personal Protection

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
7664-38-2	Phosphoric acid {Orthophosphoric acid}	PEL: 1 mg/m <sup>3</sup>	TLV: 1 mg/m <sup>3</sup> STEL: 3 mg/m <sup>3</sup>	
7697-37-2	Nitric acid {Hydrogen nitrate}	PEL: 2 ppm	TLV: 2 ppm STEL: 4 ppm	
<b>Respiratory Equipment (Specify Type):</b>	Respirator protection is not normally required.			
<b>Eye Protection:</b>	Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses.			
<b>Protective Gloves:</b>	Wear appropriate protective gloves to prevent skin exposure. Handle with gloves.			
<b>Other Protective Clothing:</b>	Wear appropriate protective clothing to prevent skin exposure.			
<b>Engineering Controls (Ventilation etc.):</b>	Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low. There are no special ventilation requirements.			
<b>Work/Hygienic/Maintenance Practices:</b>	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.			
<b>Environmental Exposure Controls:</b>	Do not let product enter drains.			

## 9. Physical and Chemical Properties

**Physical States:** [ ] Gas [ X ] Liquid [ ] Solid  
**Appearance and Odor:** Clear water white liquid  
Mild acid odor.  
**Melting Point:** 42.00 C  
**Boiling Point:** NA - 120.50 C  
**Autoignition Pt:** NA  
**Flash Pt:** NA Method Used: Estimate  
**Explosive Limits:** LEL: UEL:  
**Specific Gravity (Water = 1):** ~ 1.1  
**Vapor Pressure (vs. Air or mm Hg):**  
**Vapor Density (vs. Air = 1):**  
**Evaporation Rate:**  
**Solubility in Water:** Complete  
**Viscosity:** Thin  
**pH:** < 2  
**Percent Volatile:**

## 10. Stability and Reactivity

**Stability:** Unstable [ ] Stable [ X ]  
**Conditions To Avoid - Instability:** Incompatible materials, Metals.  
**Incompatibility - Materials To Avoid:** Strong acids. Is corrosive to many materials including leather, rubber, and many organics. Alkali metals, Organic materials, acetic anhydride, Acetonitrile, Alcohols, acrylonitrile, Ammonia, Crotonaldehyde. halogenated hydrocarbons, Acids. Bases, Metals, Hexalithium disilicide, Hydrogen peroxide, ketones, Water. Fluorine. Amines, Thiols. Cadmium, bromine, Copper, hydrazine, Hydrazinium nitrate, Nitro compounds, Cyanides. Phosphorus trihydride (phosphine) Diphosphine, halides, Organic halides, May set fire to wood or paper. Polyethers, methyl vinyl ether.  
**Hazardous Decomposition Or Byproducts:** Phosphine, oxides of phosphorus, hydrogen gas.  
**Possibility of Hazardous Reactions:** Will occur [ ] Will not occur [ X ]  
**Conditions To Avoid - Hazardous Reactions:**

## 11. Toxicological Information

**Toxicological Information:** Epidemiology: No data available.  
 Teratogenicity: No data available.  
 Reproductive Effects: Neurotoxicity: Other Studies: Germ cell mutagenicity.  
 Reproductive toxicity. Specific target organ toxicity - single exposure: Specific target organ toxicity - repeated exposure: Aspiration hazard:

**Irritation or Corrosion:** Skin corrosion/irritation. No data available.  
 Serious eye damage/eye irritation:

**Sensitization:** No data available.

**Carcinogenicity/Other Information:** CAS# 7664-38-2: Not listed by ACGIH, IARC, NTP, or CA Prop 65. IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH. NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA. CAS# 7732-18-5: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

CAS #	Hazardous Components (Chemical Name)	NTP	IARC	ACGIH	OSHA
7664-38-2	Phosphoric acid {Orthophosphoric acid}	n.a.	n.a.	n.a.	n.a.
7697-37-2	Nitric acid {Hydrogen nitrate}	n.a.	n.a.	n.a.	n.a.

## 12. Ecological Information

**General Ecological Information:** Environmental: Not regulated under U.S. Department of Transportation regulations (29 CFR)  
 Physical: No information available.  
 Other: Do not empty into drains.

**Results of PBT and vPvB assessment:** PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

## 13. Disposal Considerations

**Waste Disposal Method:** Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.  
 RCRA P-Series: None listed.  
 RCRA U-Series: None listed. Product.  
 Contact a licensed professional waste disposal service to dispose of this material. Offer surplus and non-recyclable solutions to a licensed disposal company. Dispose of as hazardous waste in compliance with local and national regulations.  
 Contaminated packaging.

## 14. Transport Information

**LAND TRANSPORT (US DOT):**

**DOT Proper Shipping Name:** Corrosive liquid, acidic, inorganic, n.o.s. (Nitric acid)

**DOT Hazard Class:** 8 CORROSIVE

**UN/NA Number:** UN3264 **Packing Group:** II



## 15. Regulatory Information

**EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists**

CAS #	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
7664-38-2	Phosphoric acid {Orthophosphoric acid}	No	Yes 5000 LB	No
7697-37-2	Nitric acid {Hydrogen nitrate}	Yes 1000 LB	Yes 1000 LB	Yes

**CAS # Hazardous Components (Chemical Name)**

**Other US EPA or State Lists**

7664-38-2	Phosphoric acid {Orthophosphoric acid}	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No
7697-37-2	Nitric acid {Hydrogen nitrate}	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No

## 16. Other Information

**Revision Date:** 03/05/2015

**Preparer Name:** Regulatory Affairs

**Hazard Rating System:**

<b>HEALTH</b>	2
<b>FLAMMABILITY</b>	0
<b>REACTIVITY</b>	2
<b>PPE</b>	B

**HMIS:**

**Additional Information About**

**This Product:**

**Company Policy or**

**Disclaimer:**

The information contained in this Safety Data Sheet is provided pursuant to current OSHA regulations to convey information concerning the hazardous nature of the named product. The information supplied was compiled from the most reliable sources available at the time of preparation and in light of the most reasonable foreseeable exposure situations expected from the intended use of this product. The material(s) may present greater or lesser hazard exposure under other circumstances that are beyond the control of the manufacturer. Therefore it is imperative that all directions and warnings on the product label be read and closely followed.