

### 1. Product and Company Identification

**Product Code:** 8120  
**Product Name:** Lime & Scale Remover  
**Company Name:** Sunbelt Laboratories  
P.O. BOX 1563  
Stafford, TX 77497  
**Phone Number:** (281)261-4747  
**Web site address:** www.sunbelt-labs.com  
**Emergency Contact:** CHEM-TEL (800)255-3924

### 2. Hazards Identification

**Skin Corrosion, Category 1B**

**Eye Irritation, Category 2A**



**GHS Signal Word:** **Danger**

**GHS Hazard Phrases:** Causes severe skin burns and eye damage.  
Causes serious eye irritation.

**GHS Precautionary Phrases:** Do not breathe dust/fume/gas/mist/vapors/spray.  
Wash hands thoroughly after handling.  
Wear protective gloves/protective clothing/eye protection/face protection.

**GHS Response Phrases:** IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.  
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
Immediately call a POISON CENTER or doctor/physician.  
Specific treatment see ... on this label.  
If eye irritation persists, get medical advice/attention.  
Wash contaminated clothing before reuse.

**GHS Storage and Disposal Phrases:** Store locked up.  
Dispose of contents/container to ...

**OSHA Regulatory Status:** This material is classified as hazardous under OSHA regulations.

**Potential Health Effects (Acute and Chronic):** Chronic inhalation and ingestion may cause effects similar to those of acute inhalation and ingestion.

**Inhalation:** Causes chemical burns to the respiratory tract. Causes respiratory tract irritation.

**Skin Contact:** Causes skin burns. Causes skin irritation. Concentrated solutions may produce corrosive effects.

**Eye Contact:** Causes eye burns. Causes eye irritation. Concentrated solutions may produce corrosive effects.

**Ingestion:** Causes gastrointestinal tract burns. May cause gastrointestinal irritation with nausea, vomiting and diarrhea. May cause burns to the digestive tract.

### 3. Composition/Information on Ingredients

CAS #	Hazardous Components (Chemical Name)	Concentration	
7664-38-2	Phosphoric acid	5.0 -15.0 %	
5329-14-6	Sulphamic acid	1.0 -5.0 %	
77-92-9	Citric acid	<=1.0 %	

### 4. First Aid Measures

**Emergency and First Aid**
**Procedures:**

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

**In Case of Skin Contact:** Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical aid.

**In Case of Eye Contact:** Get medical aid immediately. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes.

**In Case of Ingestion:** Get medical aid immediately. If victim is fully conscious, give a cupful of water. Never give anything by mouth to an unconscious person.

**Note to Physician:** Treat symptomatically and supportively.

### 5. Fire Fighting Measures

**Flash Pt:** NE

**Explosive Limits:** LEL: No data. UEL: No data.

**Autoignition Pt:** NE

**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. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

**Flammable Properties and Hazards:** No data available.

**Hazardous Combustion** Strong oxidants.

**Products:**

### 6. Accidental Release Measures

**Steps To Be Taken In Case Material Is Released Or Spilled:** Use proper personal protective equipment as indicated in Section 8. Spills/Leaks: Do not let this chemical enter the environment. Clean up spills immediately, observing precautions in the Protective Equipment section. Avoid generating dusty conditions. Provide ventilation.

### 7. Handling and Storage

**Precautions To Be Taken in Handling:** Do not breathe dust, vapor, mist, or gas. Do not get in eyes, on skin, or on clothing. Do not ingest or inhale. Use only in a chemical fume hood. Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Minimize dust generation and accumulation. Do not breathe dust.

**Precautions To Be Taken in Storing:** Store in a cool, dry place. Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.

### 8. Exposure Controls/Personal Protection

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
7664-38-2	Phosphoric acid	PEL: 1 mg/m3	TLV: 1 mg/m3 STEL: 3 mg/m3	No data.
5329-14-6	Sulphamic acid	No data.	No data.	No data.
77-92-9	Citric acid	No data.	No data.	No data.

**Respiratory Equipment (Specify Type):** Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

**Eye Protection:** Wear chemical splash goggles. Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

**Protective Gloves:** Wear appropriate protective gloves to prevent skin exposure.

**Other Protective Clothing:** Wear appropriate protective clothing to prevent skin exposure.

**Engineering Controls (Ventilation etc.):** 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.

### 9. Physical and Chemical Properties

**Physical States:** [ ] Gas [X] Liquid [ ] Solid

**Appearance and Odor:** green.  
Acid-like.

**pH:** 1.1

**Melting Point:** NE

**Boiling Point:** No data.

**Flash Pt:** NE

**Evaporation Rate:** Not established

**Flammability (solid, gas):** No data available.

**Explosive Limits:** LEL: No data. UEL: No data.

**Vapor Pressure (vs. Air or mm Hg):** Not established

**Vapor Density (vs. Air = 1):** Not established

**Specific Gravity (Water = 1):** 1.11 at 77.0 F (25.0 C)

**Solubility in Water:** Soluble

**Octanol/Water Partition Coefficient:** No data.

**Percent Volatile:** 65.0 % by volume.

**Autoignition Pt:** NE

**Decomposition Temperature:** No data.

**Viscosity:** No data.



# SAFETY DATA SHEET

## Lime & Scale Remover

**Corrosion Rate:** Not established

### 10. Stability and Reactivity

**Stability:** Unstable [ ] Stable [ X ]

**Conditions To Avoid - Instability:** Incompatible materials, Metals. Excess heat, dust generation.

**Incompatibility - Materials To Avoid:** Strong oxidizing agents, Reacts with most common metals to produce hydrogen gas. Is corrosive to many materials including leather, rubber, and many organics. Strong bases, Nitric acid, chlorine, attacks metals in the presence of moisture.

**Hazardous Decomposition or Byproducts:** Phosphine, oxides of phosphorus, hydrogen gas. Nitrogen oxides, oxides of sulfur, irritating and toxic fumes and gases, ammonia and/or derivatives.

**Possibility of Hazardous Reactions:** Will occur [ ] Will not occur [ X ]

**Conditions To Avoid - Hazardous Reactions:** Product will not undergo polymerization.

### 11. Toxicological Information

**Toxicological Information:** Epidemiology: No data available.  
Teratogenicity: No data available.  
Reproductive Effects: Mutagenicity: Neurotoxicity: Other Studies: No information available.

**Carcinogenicity/Other Information:** CAS# 7664-38-2: Not listed by ACGIH, IARC, NTP, or CA Prop 65. CAS# 5329-14-6: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

**Carcinogenicity:** NTP? No IARC Monographs? No OSHA Regulated? No

CAS #	Hazardous Components (Chemical Name)	NTP	IARC	ACGIH	OSHA
7664-38-2	Phosphoric acid	n.a.	n.a.	n.a.	n.a.
5329-14-6	Sulphamic acid	n.a.	n.a.	n.a.	n.a.
77-92-9	Citric acid	n.a.	n.a.	n.a.	n.a.

### 12. Ecological Information

**General Ecological Information:** Environmental: No information available.  
Physical: No information available.  
Other: Do not empty into drains. Other: May be toxic to aquatic organisms; May cause long-term adverse effects in the aquatic environment.

### 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.

### 14. Transport Information

**LAND TRANSPORT (US DOT):**

**DOT Proper Shipping Name:** Phosphoric acid, liquid.  
**DOT Hazard Class:** 8 CORROSIVE  
**UN/NA Number:** UN1805 **Packing Group:** III


**LAND TRANSPORT (Canadian TDG):**

**TDG Shipping Name:** No information available. SULFAMIC ACID.

**AIR TRANSPORT (ICAO/IATA):**

**ICAO/IATA Shipping Name:** Disinfectant, liquid, corrosive, n.o.s.

### 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	No	Yes NA	No
5329-14-6	Sulphamic acid	No	No	No
77-92-9	Citric acid	No	No	No

**This material meets the EPA 'Hazard Categories' defined for SARA Title III Sections 311/312 as indicated:**

- Yes  No Explosive
- Yes  No Flammable (gases, aerosols, liquid, or solid)
- Yes  No Oxidizer (liquid, solid or gas)
- Yes  No Self-reactive
- Yes  No Pyrophoric (liquid or solid)
- Yes  No Pyrophoric gas
- Yes  No Self-heating
- Yes  No Organic peroxide
- Yes  No Corrosive to metal
- Yes  No Gas under pressure (compressed gas)
- Yes  No In contact with water emits flammable gas
- Yes  No Combustible Dust
- Yes  No (Physical) Hazard Not Otherwise Classified (HNOC)
- Yes  No Acute toxicity (any route of exposure)
- Yes  No Skin Corrosion or Irritation
- Yes  No Serious eye damage or eye irritation
- Yes  No Respiratory or Skin Sensitization
- Yes  No Germ cell mutagenicity
- Yes  No Carcinogenicity
- Yes  No Reproductive toxicity
- Yes  No Specific target organ toxicity (single or repeated exposure)
- Yes  No Aspiration Hazard
- Yes  No Simple Asphyxiant
- Yes  No (Health) Hazard Not Otherwise Classified (HNOC)

CAS #	Hazardous Components (Chemical Name)	Other US EPA or State Lists
7664-38-2	Phosphoric acid	CAA HAP,ODC: No CWA NPDES: No TSCA: Yes - Inventory CA PROP.65: No
5329-14-6	Sulphamic acid	CAA HAP,ODC: No CWA NPDES: No TSCA: Yes - Inventory

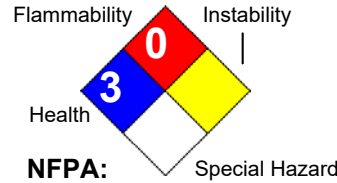
		CA PROP.65: No
77-92-9	Citric acid	CAA HAP,ODC: No CWA NPDES: No TSCA: Yes - Inventory CA PROP.65: No

### 16. Other Information

**Revision Date:** 12/14/2023

**Hazard Rating System:**

HEALTH		3
FLAMMABILITY		0
PHYSICAL		0
PPE		



**HMIS:**

**Additional Information About This Product:** No data available.

**Company Policy or Disclaimer:**

DISCLAIMER: To the best of our knowledge, the information contained herein is accurate. There is no assumption of liability for accuracy contained within this information. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.