



SAFETY DATA SHEET

1. Product and company identification

Product Name LIME DESCALER

Product Code: C-L01

Recommended use of the chemical

Recommended Use Scale remover for dish machines, appliances, counters and bathrooms

UN/ID No. UN1805 Phosphoric Acid Solution, Class 8, PGIII

Supplier: **HD Chem**
 707 W. 16th St
 Long Beach, CA 90813
 (888) 443-2436

In case of emergency: **Call (888) 443-2436**

Product type: Mixture

2. Hazards identification

Appearance: Clear Green Liquid

Physical State: Liquid

Odor: Acidic Odor

Classification

Acute Toxicity – Oral	Category 4
Acute Toxicity – Inhalation (Dust/Mists)	Category 2
Skin corrosion/ irritation	Category 5
Serious eye damage/eye irritation	Category 1B
Specific target organ toxicity (single exposure)	Category 1

Signal Word: DANGER!

Pictograms:



Hazard Statement:

Danger! Corrosive, Causes serious eye damage. Causes severe irritation and burns to every area of contact. Harmful if swallowed or inhaled. Acute Toxicity, oral.
 Harmful to aquatic life

Precautionary Statements – Preventions

Do not get in Eyes, on skin or on Clothing. Wash face, hands and any exposed skin thoroughly after handling.
Do not eat, drink or smoke when using this product.

Precautionary Statements – Response

Immediately call A POISON CENTER or doctor/physician

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so.

Continue rinsing immediately call a POISON CONTROL or doctor/physician

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

Wash contaminated clothing before reuse

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Use only with adequate ventilation. Immediately call a POISON CENTER or doctor/physician

HARMFUL IF SWALLOWED. Keep container closed. Immediately call a POISON CENTER or doctor/physician, Rinse mouth, **Do not induce vomiting!**

Keep in a cool, dry place. Keep out of reach of children.

Precautionary Statements – Storage

Store locked up

Store in a well-ventilated place. Keep container closed

Precautionary Statements –Disposal

Dispose of contents/container to an approved waste disposal plant

3. Composition/information on ingredients

<u>Name</u>	<u>CAS number</u>	<u>%</u>
Phosphoric Acid	7664-38-2	25 %

4. First aid measures

Eye contact:	Get medical aid immediately. Do NOT allow victim to rub or keep eyes closed. Check for and remove any contact lenses if easy to do so. Immediately flush eyes with running water for at least 30 minutes, keeping eyelids apart. Use cool running water. Do not use an eye ointment.
Skin contact:	Get medical aid immediately. Immediately flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Discard contaminated clothing in a manner which limits further exposure. Destroy contaminated shoes.
Inhalation:	Get medical aid immediately. Remove from exposure to fresh air immediately. If breathing is difficult, give oxygen. Do NOT use mouth-to-mouth resuscitation. If breathing has ceased apply artificial respiration using oxygen and suitable mechanical device such as a bag and a mask
Ingestion:	Do NOT induce vomiting. If victim is conscious and alert, give 2-4 capfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid immediately.
Note to physician	Persons with pre-existing skin disorders or impaired respiratory or pulmonary function may be at increased risk to the effects of this substance. Treat symptomatically and supportively.

5. Fire-fighting measures

Flash point:	>210 F
Unusual Fire & explosion	Containers exposed to heat from fires should be cooled with water fog to prevent container rupture.
Extinguishing media:	Water spray, Foam, Carbon Dioxide, Dry Chemical
Auto ignition temp:	No Data
UEL	No Data
Special protective equipment for fire-fighters:	Firefighters should wear a positive pressure NIOSH approved self-contained breathing apparatus.
Flash point:	>210 F
Unusual Fire & explosion	Containers exposed to heat from fires should be cooled with water fog to prevent container rupture.
Extinguishing media:	Water spray, Foam, Carbon Dioxide, Dry Chemical

6. Accidental release measures

Personal precautions:	Use proper personal protective equipment as indicated in Section 8
Environmental precautions:	Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information See Section 13, Disposal considerations, for additional information.
<u>Methods for cleaning up</u>	Prevent further leakage or spillage if safe to do so.
Methods and Materials for Containment and Clean Up:	Observe all personal protective equipment recommendations describe in the SDS. Floors will become slippery. Avoid spill area. Contain spill. If leaked material can be pumped, store recovered material in appropriate containers, Clean up remaining materials from spill with suitable absorbent. Dispose of saturated absorbent material or cleaning materials appropriately. Laws and regulations may apply to releases and disposal of this material. You will need to determine which laws and regulations are applicable.
Personal precautions:	Use proper personal protective equipment as indicated in Section 8

7. Handling and storage

Precautions for Safe Handling:	Use a well ventilated area. Avoid breathing in mists or vapor. Avoid skin and eye contact. Remove contaminated clothing and wash before reuse. Keep container tightly closed. Do not take internally. Exercise good industrial hygiene practice. Wash after handling, especially before eating, drinking, smoking or using toilet facilities.
Storage	Store in a cool, dry, well ventilated area, away from heat and out of direct sunlight. Store away from alkalis. Store protected from moisture. Do not store in metal containers. Keep away from food containers.

8. Exposure controls/personal protection

Consult local authorities for acceptable exposure limits.

Engineering Controls Apply technical measures to comply with the occupational exposure limits. Local exhaust ventilation recommended. Eye wash stations. Showers.

Individual-protection measures, such as personal protective equipment

Eye/Face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection in 29 CFR 1910.133 or European Standard EN166.
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Skin and Body Protection	Wear appropriate protective gloves to prevent skin exposure. Wear appropriate protective clothing to prevent skin exposure
Respiratory Protection	A respirator protection program that meets OSHA's 29 CFR 1910. 134 and ANSI Z88.2 requirements for European Standard EN 149 must be followed whenever workplace conditions warrant a respirator's use.
General Hygiene considerations	Use good personal hygiene practices

9. Physical and chemical properties

Physical state	Liquid
Flash Point	>210 F.
Color	Green
pH	1-2
Boiling/condensation point	>212 F
Vapor pressure	<17 mm Hg
Vapor Density	<1
Specific gravity	1.12
Solubility in water	Soluble

10. Stability reactivity

Stability	Stable under normal temperatures and pressures
Hazardous polymerization	May occur
Conditions to avoid	Incompatible materials, metals, excess heat, and exposure to moist air or water.
Materials to avoid	Strong bases, ammonia, finely powdered metals, organic peroxides, caustics (e.g. ammonia, ammonium hydroxide, calcium hydroxide, potassium hydroxide, sodium hydroxide), cyanides (e.g. Potassium cyanide, sodium cyanide), fluorides (inorganic, e.g. ammonium fluoride, calcium fluoride, cesium fluoride), halogenated organics (e.g. dibromoethane, hexachlorobenzene, methyl chloride, trichloroethylene), mercaptans and other organic sulfides (e.g. butyl mercaptan, carbon disulfide, methanethiol), nitromethane, sodium tetrahydroborate, sulfites, mineral acids, moisture, bleaching powder, aldehydes, strong alkalis, chlorides, nickel carbonate.
Hazardous decomposition	Phosphine, oxides of phosphorus, irritating and toxic fume and gases
Products	
Stability	Stable under normal temperatures and pressures

11. Toxicological information

RTECS#
CAS# 7664-38-2: TB6300000
LD50/LC50: Not Available
Not Available
Carcinogenicity: Phosphoric Acid,
Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA
Epidemiology: No information available
Teratogenicity: No information available
Reproductive Effects: No information available
Neurotoxicity: No information available
Mutagenicity: No information available
Other studies: CAS# 7664-38-2: Standard Draize Test: skin, rabbit = 595 mg/24H (Severe).; Standard Draize Test: eye, rabbit = 119 mg (Severe).

12. Ecological information

Environmental effects:
Ecotoxicity: Fish: Mosquito Fish: LC50 = 138 mg/L; 96 Hr; Unspecified Other
Dangerous to aquatic life in high concentrations.

13. Disposal considerations

Waste disposal:

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a license waste contactor. Disposal of this product, solutions and any by products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contract with soil, waterways, drains and sewers.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

14. Transport information

Regulatory Information	UN number	Proper shipping name	Hazard Class	PG*	Regulatory Information	UN number
U.S. DOT Classification	UN1805	Phosphoric Acid	8	III	U.S. DOT Classification	UN1805

*PG: Packing group

15. Regulatory information

US Federal
TSCA CAS# 7664-38-2 is listed on the TSCA inventory
Health and Safety Reporting List
Chemical Test Rules
None of the chemicals in this product are under a Chemical Test Rule. Section 2b
TSCA Significant New Use Rule
None of the chemicals in this material have SNUR under TSCA
CAS# 7664-38-2: 5000 lb final RQ; 2270 kg final RQ
SARA Section 302 Extremely Hazardous Substances
None of the chemicals in this product have a TPQ.
SARA Codes
CAS# 7664-38-2: acute
Section 313
No chemicals are reportable under Section 313
Clean Air Act.

16. Other information

<u>HMIS</u>	Health Hazards	Flammability	Reactivity	Personal Protection
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 Indicates information that has changed from previously issued version.

Disclaimer

The information provided in the Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as 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.

End of Safety Data Sheet