DeVere

LIME SOLVENT

Concentrated, Moderate Foam Acid Cleaner

Lime Solvent is a mild, organic and mineral blended acid detergent designed for removing lime scale/minerals from a variety of surfaces. Use dilutions of this product is safe to use on galvanized steel, aluminum, tile, and a variety of other materials that would be corroded by other acid cleaners.

Lime Solvent works as a detergent and lime remover for the FIRST TANK. No other cleaner or additive is needed. Use Lime Solvent in the first tank and QDII Sanitizer in the third tank for spot-free glasses with no chemical taste or smell.

Physical Properties (Typical)

Appearance	Colorless to amber liquid
Odor	Characteristic
pH	<2
Density	1.07 (Water = 1.00)
Melting Point	Not available
Solubility	Complete at recommended dilutions

Directions for Use

Soak: To remove water spots or lime build-up from glasses or utensils, soak in 4 oz Lime Solvent per 1 gallon of water for at least 15 minutes, rinse and wash thoroughly.
Spray applications: Dilute 4 oz Lime Solvent per gallon of water. Spray on surface. Let sit for 1 minute. Rinse surface with water.
Spray Bottle: For water and other mineral spot removal, use 4 oz Lime Solvent per quart spray bottle.

Lime Solvent is a blend of gluconic and mineral acids and is safe to use on a variety of surfaces. Contact DeVere before using if you have any questions on material compatibility.

Lime Solvent does not contain any nonylphenol ethoxylates (NPEs). It is better for the environment and is subject to fewer regulatory restrictions than NPE-containing products.

Progressive Cleaning Solutions

DeVere Company, Inc. • 1923 Beloit Ave. • Janesville, WI 53546 U.S.A.
www.deverechemical.com • 1-800-833-8373 • 1-608-752-0576 • Fax: 1-608-314-0969

SAFETY DATA SHEET
LIME SOLVENT

Revision Date: 03-Jun-2014

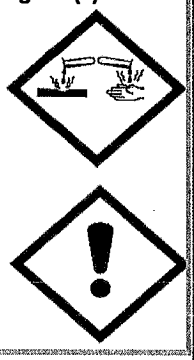
SECTION 1 — IDENTIFICATION

Product Name: LIME SOLVENT
Synonyms: Acidic Cleaner
Supplier Details: DeVere Company, Inc.
1923 Beloit Ave. • Janesville, WI 53546 • U.S.A.
Phone: 1-608-752-0576
Website: http://deverechemical.com
Emergency (24-Hour): CHEMTREC 1-800-424-9300 (within the U.S.A.), 1-703-527-3887 (International)
Recommended Use of the Chemical and Restrictions On Use: Cleaning compound

SECTION 2 —HAZARDS IDENTIFICATION

Hazard Classification of the Substance or Mixture:
Skin Corrosion 1C
Serious Eye Damage 1

Pictogram(s)



Risk Phrases:
R21 - Harmful in contact with skin
R22 - Harmful if swallowed
R34 - Causes burns

Signal Word: DANGER

Hazard Statement(s):
H314 - Causes severe skin burns and eye damage
H318 - Causes serious eye damage

Precautionary Statement(s):
P102 - Keep out of reach of children.
P103 - Read label before use.
P260 - Do not breathe dusts or mists.

P280 - Wear protective gloves and eye protection.
P301+P312 - IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present
P314 - Get medical advice and attention if you feel unwell.
P361 - Remove/Take off immediately all contaminated clothing.
P363 - Wash contaminated clothing before reuse.
P391 - Collect spillage.
P402+P404 - Store in a dry place. Store in a closed container.

Hazards not Otherwise Classified: Mixing with acidic solutions will generate heat.

SECTION 3 — COMPOSITION/INFORMATION ON INGREDIENTS

Product is a Mixture according to 29 CFR 1910.1200.

Chemical Name	CAS Number	%
GLUCONIC ACID	526-95-4	10 - 30%
PHOSPHORIC ACID	7664-38-2	7 - 13%
NONYLPHENOL, ETHOXYLATED	9016-45-9	3 - 7%

Impurities and stabilizing additives, which are themselves classified and which contribute to the classification of the chemical: None

Specific chemical identity and/or exact percentage (concentration) of composition has been withheld in accordance with a trade secret claim according to Appendix E 29 CFR 1910.1201.

SECTION 4 — FIRST-AID MEASURES

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

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 SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor.

SECTION 5 — FIRE-FIGHTING MEASURES

This product is not flammable and not explosive

Product does not increase any hazards commonly associated with fire
Use extinquishing media consistent with governmental guidelines

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Contain spills and dispose according to local and federal regulations.
Observe the protection measures described in Section 8.
Avoid materials and products which are incompatible with the product as shown in Section 10.
Never dispose of this or any industrial cleaning product with residential waste.
See Section 13 for disposal methods.

SECTION 7 — HANDLING AND STORAGE

Storage: Store in an original, tightly closed container in a secure area out of reach of children and domestic animals and away from sources of heat. Do not store food, beverages or tobacco products in the storage area. If product becomes frozen, thaw and mix well before use.

Handling: Use proper personal protective equipment as indicated in Section 8. Avoid contact with eyes, skin or clothing. Avoid inhalation and use only in well-ventilated areas. Wash thoroughly with soap and water after handling.

SECTION 8 — EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical Name	OSHA PEL	ACGIH TLV
GLUCONIC ACID	N/A	N/A
PHOSPHORIC ACID	1 mg/m3	1 mg/m3
NONYLPHENOL, ETHOXYLATED	N/A	N/A

Eye Protection: Use chemical safety glasses to avoid eye contact.
Hand Protection: Use impervious and chemical resistant gloves.
Skin and Body Protection: Use impervious body covering clothes and shoes.
Hygiene Measures: Eye wash station and safety shower should be provided. Do not eat drink or smoke where material is stored, handled or used. Wash hands thoroughly after handling and before eating or smoking.

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Colorless liquid
Odor:	Characteristic
pH:	< 2
Relative Density:	1.07 (Water = 1.00)
Melting point/freezing point:	Not Available
Solubility in Water:	Complete at recommended dilutions.
Flash Point:	N/A
Flammability:	Not Flammable

Vapor pressure, odor threshold, vapor density, initial boiling point, boiling range, evaporation rate, upper/lower flammability or explosive limits, auto-ignition temperature and viscosity are either not relevant to this type of material or not available.

Note: The above properties are typical values and are not to be construed as a guaranteed analysis for any specific lot or as specifications for the product.

SECTION 10 — STABILITY AND REACTIVITY

Reactivity:	Product will react with incompatible materials to generate heat
Chemical Stability:	Stable under ordinary conditions of use and storage
Possibility of Hazardous Reactions:	Product can generate heat if exposed to incompatibilities
Hazardous Decomposition Products:	None known
Hazardous Polymerization:	Will not occur
Incompatibilities:	This product is not compatible with bleach and alkaline chemicals
Conditions to Avoid:	Contact with incompatible materials Do not dispose of this product with residential waste

Safety Issues That May Arise Should Product Change in Physical Appearance:
Dispose of product immediately per Section 13 should it become discolored.

SECTION 11 — TOXICOLOGICAL INFORMATION

Likely Routes of Exposure: Skin, inhalation, ingestion and eye contact
Acute Toxicity: No information available on this product.
Symptoms related to the physical, chemical and toxicological characteristics:
Contact with concentrated product can cause physical damage to eyes or skin
Delayed and immediate effects and also chronic effects from short- and long-term exposure:
Contact with skin or eyes already damaged by product can cause further damage
Numerical measures of toxicity: None known
Carcinogenicity: Not classified by IARC, OSHA, or EPA. Not included in NTP 12 the report on carcinogens.

SECTION 12 — ECOLOGICAL INFORMATION

Ecotoxicity: This product may be toxic to aquatic life in high concentrations.
Persistence and degradability: Majority of product quickly degrades to naturally occurring molecules. No detectable environmental persistence expected from regular use.
Bioaccumulative potential: Will not bioaccumulate under normal use.
Mobility in soil: No data available.

SECTION 13 — DISPOSAL CONSIDERATIONS

Dispose of in a manner consistent with federal, state, and local regulations.
Use all material. Do not waste. Rinse product to drain after use; follow with plenty of water.

SECTION 14 — TRANSPORT INFORMATION

U.S. Department of Transportation (DOT) Classification:

UN Number:	3264
Proper Shipping Name:	CORROSIVE LIQUID, ACIDIC, INORGANIC N.O.S. (PHOSPHORIC ACID)
Transport Hazard Class:	8
Packing Group:	III
Environmental Hazards:	No hazards other than as already noted in this document

Canadian Transportation of Dangerous Goods(TDG) Regulations:

Not intended for shipment under this jurisdiction.

International Maritime Dangerous Goods(IMDG) Code:

Shipment in this jurisdiction is not regulated.

International Air Transport Association(IATA) Dangerous Goods Regulations:

Not intended for shipment under this jurisdiction.

SECTION 15 — REGULATORY INFORMATION

Waste Classification: If this product becomes a waste, it does not meet the criteria of a hazardous waste as defined under 40 CFR 261, in that it does not exhibit the characteristics of hazardous waste of Subpart C, nor is it listed as a hazardous waste under Subpart D.

SECTION 16 — OTHER INFORMATION

Reason for Revision: Changed to 29cfr1910-compliant format

Prepared by: Chemical Regulatory Department

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