



MATERIAL SAFETY DATA SHEET

D-LIME SOLVENT Scale Remover

Version Number: 1

Preparation date: 2005-08-20

1. PRODUCT AND COMPANY IDENTIFICATION	
Product name:	D-LIME SOLVENT Scale Remover
MSDS #:	MS0600149
Product code:	U23035
Recommended use:	Food Service .
Manufacturer, importer, supplier:	Unisource Worldwide, Inc. 6600 Governors Lake Parkway Norcross, GA 30071 Phone: 770-447-9000 MSDS Internet Address: www.unisourcelink.com
Emergency telephone number:	1-800-535-5053

2. HAZARDS IDENTIFICATION	
EMERGENCY OVERVIEW	
<ul style="list-style-type: none"> • DANGER • CORROSIVE • CAUSES EYE AND SKIN BURNS • HARMFUL OR FATAL IF SWALLOWED • DO NOT MIX WITH AMMONIA, BLEACH OR OTHER CHLORINATED COMPOUNDS 	
Principle routes of exposure:	<ul style="list-style-type: none"> • Eyes • Skin • Inhalation
Inhalation:	• May cause irritation and corrosive effects to nose, throat and respiratory tract
Ingestion:	<ul style="list-style-type: none"> • Corrosive • Causes burns to mouth, throat and stomach
Skin contact:	<ul style="list-style-type: none"> • Corrosive • May cause permanent damage
Eye contact:	<ul style="list-style-type: none"> • Corrosive • Causes permanent eye damage, including blindness

3. COMPOSITION/INFORMATION ON INGREDIENTS			
HAZARDOUS COMPONENTS			
Ingredient	CAS #	Weight %	
Phosphoric acid	7664-38-2	10 - 30%	
Hydrochloric acid	7647-01-0	1 - 5 %	

HAZARDOUS COMPONENTS			
Ingredient	LD50 Oral	LD50 Dermal	LC50 Inhalation
Phosphoric acid	1.25 g/kg (rat)	2740 mg/kg (rabbit)	25.5 mg/m ³ (rat)
Hydrochloric acid	900 mg/kg (rabbit)	Not available	3124 ppm/1H (rat)

4. FIRST AID MEASURES	
Eye contact:	<ul style="list-style-type: none"> • Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open • Get medical attention immediately
Skin contact:	<ul style="list-style-type: none"> • Flush immediately with plenty of water for at least 15 minutes • Get medical attention immediately
Inhalation:	<ul style="list-style-type: none"> • If breathing is affected, remove to fresh air • Get medical attention immediately

Ingestion:	<ul style="list-style-type: none"> • Do not induce vomiting • Immediately drink one cupful of water or milk • Never give anything by mouth to an unconscious person • Get medical attention immediately
Aggravated Medical Conditions:	• Individuals with chronic respiratory disorders such as asthma, chronic bronchitis, emphysema, etc., may be more susceptible to irritating effects

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:	<ul style="list-style-type: none"> • The product is not flammable • Extinguish fire using agent suitable for surrounding fire
Specific hazards:	Not applicable
Unusual hazards:	None known
Specific methods:	No special methods required
Special protective equipment for firefighters:	
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear	
Extinguishing media which must not be used for safety reasons:	
No information available	

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:	Use personal protective equipment
Environmental precautions and clean-up methods:	<ul style="list-style-type: none"> • Use appropriate containment to avoid environmental contamination • Soak up with inert absorbent material • Shovel into suitable container for disposal

7. HANDLING AND STORAGE

Handling:	<ul style="list-style-type: none"> • Avoid contact with skin, eyes and clothing • Do not taste or swallow • Avoid breathing vapors or mists • Use only with adequate ventilation • Remove and wash contaminated clothing and footwear before re-use • Wash thoroughly after handling • Product residue may remain on/in empty containers • All precautions for handling the product must be used in handling the empty container and residue • FOR COMMERCIAL AND INDUSTRIAL USE ONLY
FOR COMMERCIAL AND INDUSTRIAL USE ONLY	
Storage:	<ul style="list-style-type: none"> • Keep tightly closed in a dry, cool and well-ventilated place • Protect from freezing • Keep out of the reach of children

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures to reduce exposure:	
<ul style="list-style-type: none"> • Good general ventilation should be sufficient to control airborne levels • Respiratory protection is not required if good ventilation is maintained 	
Personal Protective Equipment	
Eye protection:	• Chemical splash goggles
Hand protection:	<ul style="list-style-type: none"> • Chemical resistant gloves • Includes • neoprene gloves
Skin and body protection:	• If major exposure is possible, wear suitable protective clothing and footwear
Respiratory protection:	<ul style="list-style-type: none"> • In case of insufficient ventilation wear suitable respiratory equipment • A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use

Hygiene measures:	<ul style="list-style-type: none"> Keep away from food, drink and animal feeding stuffs Handle in accordance with good industrial hygiene and safety practice
-------------------	---



Ingredient	CAS #	ACGIH	OSHA	Mexico
Phosphoric acid	7664-38-2	3 mg/m ³ (STEL) 1 mg/m ³ (TWA)	1 mg/m ³	3 mg/m ³ (STEL) 1 mg/m ³ (TWA)
Hydrochloric acid	7647-01-0	2 ppm (Ceiling)		7 mg/m ³ (Ceiling)

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid	Appearance:	Aqueous solution
Color:	Dark Brown	Odor:	Acid
Specific gravity:	1.19	pH:	1.5
Dilution pH:	No information available	Density:	No information available
Bulk density:	No information available	Vapor density:	No information available
Evaporation rate:	No information available	Solubility:	Soluble
VOC:	0	Viscosity:	No information available
Solubility in other solvents:	No information available		
Partition coefficient (n-octanol/water):	No information available		
Boiling point/range:	Not determined		
Melting point/range:	Not determined		
Flash point:	>200 (°F)>99.3 (°C)		
Decomposition temperature:	Not determined		
Autoignition temperature:	No information available		

10. STABILITY AND REACTIVITY

Stability:	The product is stable
Polymerization:	Hazardous polymerisation does not occur
Hazardous decomposition products:	None reasonably foreseeable
Materials to avoid:	<ul style="list-style-type: none"> Strong oxidising agents Bases Do not mix with chlorinated products

11. TOXICOLOGICAL INFORMATION

Acute toxicity	<ul style="list-style-type: none"> Corrosive
Component Information:	See Section 3
Chronic toxicity:	None known
Specific effects	
Carcinogenic effects:	None known
Mutagenic effects:	None known
Reproductive toxicity:	None known
Target organ effects:	None known

HAZARDOUS COMPONENTS

Ingredient	CAS #	NTP	IARC	OSHA
Hydrochloric acid	7647-01-0		Listed (Mist Only)	

12. ECOLOGICAL INFORMATION

Environmental Information:	<ul style="list-style-type: none"> no data available
----------------------------	---

13. DISPOSAL CONSIDERATIONS**Waste from residues / unused products:**

- Undiluted product is regulated under environmental and transportation laws as a corrosive waste
- Dispose of according to all federal, state and local applicable regulations

14. TRANSPORT INFORMATION**DOT/TDG:**

Please refer to the Bill of Lading/receiving documents for up to date shipping information

15. REGULATORY INFORMATION**International Inventories**

All components of this product are listed on the following inventories: U.S.A. (TSCA).

U.S. Regulations**California Proposition 65:** This product is not subject to the reporting requirements under California's Proposition 65**SARA 311/312 Hazard Categories**

Immediate:	Y
Delayed:	N
Fire:	N
Reactivity:	N
Sudden Release of Pressure:	N

Canada**WHMIS hazard class:** Not for sale in Canada .**STATE RIGHT TO KNOW**

Ingredient	CAS #	NJRTK:	MARTK:	PARTK:	RIRTK:	ILRTK:	CTRTK:
Phosphoric acid	7664-38-2	Listed	Listed	Listed	Listed	Listed	Listed
Water	7732-18-5	-	-	-	-	-	-
Hydrochloric acid	7647-01-0	Listed	Listed	Listed	Listed	Listed	Listed

CERCLA / SARA

Ingredient	CAS #	Weight %	CERCLA/SARA RQ (lbs)	Section 302 TPQ (lbs)	Section 313
Phosphoric acid	7664-38-2	10 - 30%	5000		
Hydrochloric acid	7647-01-0	1 - 5 %	5000	500	Listed.

Ingredient	CAA HAP	CAA ODS	CWA Priority Pollutants
Hydrochloric acid	Listed.		

16. OTHER INFORMATION

HMIS	Health	3	Fire Hazard	0	Reactivity	0
NFPA	Health:	3	Flammability:	0	Instability:	0

Reason for revision: Not applicable**Prepared by:** NAPRAC**Additional advice:** None

Notice to Reader: This document has been prepared using data from sources considered technically reliable. It does not constitute a warranty, express or implied, as to the accuracy of the information contained within. Actual conditions of use and handling are beyond seller's control. User is responsible to evaluate all available information when using product for any particular use and to comply with all Federal, State, Provincial and Local laws and regulations.