



# Safety Data Sheet

## Section 1

## Product Description

**Product Name:** LIME SOLV Liquid Scale Remover  
**Recommended Use:** Removes lime, urinary salts, etc. from hot water coils, boilers, urinals, etc.  
**Manufacturer:** UTILITY  
700 Main Street, Westbury, NY 11590  
Tel: 1-516-997-6300 Fax: 1-516-997-6345  
**24-hour Emergency:** INFOTRAC: (800) 535-5053

## Section 2

## Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

### DANGER



Causes severe burns. Harmful or fatal if swallowed.

#### GHS Classification:

Skin Corrosion/Irritation Category 1A, Serious Eye Damage/Eye Irritation Category 1

## Section 3

## Composition / Information on Ingredients

<u>Chemical Name</u>	<u>CAS #</u>	<u>%</u>
Water	7732-18-5	< 70%
Hydrogen Chloride	7647-01-0	> 30%

## Section 4

## First Aid Measures

#### Emergency and First Aid Procedures

<b>Inhalation:</b>	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
<b>Eyes:</b>	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
<b>Skin Contact:</b>	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse.
<b>Ingestion:</b>	IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

## Section 5

## Firefighting Procedures

<b>Extinguishing Media:</b>	Water fog in flooding quantities. Apply water from as far a distance as possible.
<b>Fire Fighting Methods and Protection:</b>	Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.
<b>Fire and/or Explosion Hazards:</b>	Fire or excessive heat may produce hazardous decomposition products. Flammable Hydrogen gas may be produced over long periods of exposure to Aluminum, Tin, Lead, and Zinc.
<b>Hazardous Combustion Products:</b>	Hydrogen chloride

## Section 6

## Spill or Leak Procedures

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## Steps to Take in Case Material Is Released or Spilled:

Exposure to the spilled material may be severely irritating or toxic. Follow personal protective equipment recommendations found in Section 8 of this SDS. Personal protective equipment needs must be evaluated based on information provided on this sheet and the special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred, and the expertise of employees in the area responding to the spill. Never exceed any occupational exposure limits.

Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation. If this material is released into a work area, evacuate the area immediately.

## Section 7

## Handling and Storage

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

**Storage:** Store locked up. Keep container tightly closed in a cool, well-ventilated place.

**Storage Code:** White - Corrosive. Separate acids from bases; separate oxidizer acids from organic acids.

## Section 8

## Protection Information

Chemical Name	ACGIH (TWA) N/A	ACGIH (STEL) N/A	OSHA PEL (TWA) N/A	OSHA PEL (STEL) N/A
Hydrogen Chloride				

### Control Parameters

#### Engineering Measures:

Local exhaust ventilation or other engineering controls are normally required when handling or using this product to avoid overexposure.

#### Personal Protective Equipment (PPE):

##### Respiratory Protection:

Respiratory protection may be required to avoid overexposure when handling this product. General or local exhaust ventilation is the preferred means of protection. Use a respirator if general room ventilation is not available or sufficient to eliminate symptoms.

##### Respirator Type(s):

NIOSH approved air purifying respirator with acid gas cartridge and dust/mist filter

##### Eye Protection:

Wear chemical splash goggles when handling this product. Have an eye wash station available.

##### Skin Protection:

Avoid skin contact by wearing chemically resistant gloves, an apron and other protective equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.

##### Gloves:

Natural latex, Butyl rubber, Nitrile, Neoprene

## Section 9

## Physical Data

**Formula:** HCl

**Vapor Pressure:** 160 mmHg at 20°C

**Molecular Weight:** 36.46

**Evaporation Rate (BuAc=1):** 2.0

**Appearance:** Colorless Liquid

**Vapor Density (Air=1):** 1.267

**Odor:** Strong Pungent

**Specific Gravity:** 1.1885

**Odor Threshold:** No data available

**Solubility in Water:** Complete

**pH:** ~1

**Autoignition Temperature:** No data available

**Melting Point:** No data available -114 C

**Decomposition Temperature:** No data available

**Boiling Point:** No data available -85 C

**Viscosity:** No data available

**Flash Point:** No data available

**Percent Volatile by Volume:** No data available

**Flammable Limits in Air:** No data available

## Section 10

## Reactivity Data

#### Reactivity:

Mildly reactive - See below

#### Chemical Stability:

Stable under normal conditions.

#### Conditions to Avoid:

Reaction with water is exothermic.

#### Incompatible Materials:

Water-reactive materials, Water, Caustics (bases), Oxidizing materials, Acetic anhydride, Amines, Alkanolamines, Isocyanates, Copper, Metals

#### Hazardous Decomposition Products:

Carbon monoxide, oxides or sulfur and other decomposition products may form from incomplete combustion. Heat can cause evolution of gaseous hydrogen chloride.

#### Hazardous Polymerization:

Will not occur

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## Section 11

## Toxicity Data

<b>Routes of Entry:</b>	Inhalation, ingestion, eye or skin contact.			
<b>Symptoms (Acute):</b>	Respiratory disorders			
<b>Delayed Effects:</b>	No data available			
<b>Acute Toxicity:</b>				
<b>Chemical Name</b>	<b>CAS Number</b>	<b>Oral LD50</b>	<b>Dermal LD50</b>	<b>Inhalation LC50</b>
Water	7732-18-5	Not applicable	DERMAL LD50	INHALATION
Hydrogen Chloride	7647-01-0	ORAL LD50 Rat 700 mg/kg	Rabbit > 5010 mg/kg	LC50-1H Rat 3124 ppm
<b>Carcinogenicity:</b>				
<b>Chemical Name</b>	<b>CAS Number</b>	<b>IARC</b>	<b>NTP</b>	<b>OSHA</b>
Hydrogen Chloride	7647-01-0	Not listed	Not listed	Not listed
<b>Chronic Effects:</b>				
<b>Mutagenicity:</b>	No evidence of a mutagenic effect.			
<b>Teratogenicity:</b>	No evidence of a teratogenic effect (birth defect).			
<b>Sensitization:</b>	No evidence of a sensitization effect.			
<b>Reproductive:</b>	No evidence of negative reproductive effects.			
<b>Target Organ Effects:</b>				
<b>Acute:</b>	No information available			
<b>Chronic:</b>	No information available			

## Section 12

## Ecological Data

<b>Overview:</b>	Slight ecological hazard. In high concentrations, this product may be dangerous to plants and/or wildlife.
<b>Mobility:</b>	This material is expected to have high mobility in soil. It absorbs weakly to most soil types.
<b>Persistence:</b>	Evaporation into atmosphere, dissolved in water.
<b>Bioaccumulation:</b>	No data
<b>Degradability:</b>	No data
<b>Other Adverse Effects:</b>	No data
<b>Chemical Name</b>	<b>CAS Number</b>
Water	7732-18-5
Hydrogen Chloride	7647-01-0
	<b>Eco Toxicity</b>
	No data available
	Aquatic LC50 (96h) Mosquitofish (Gambusia affinis) 282 MG/L

## Section 13

## Disposal Information

<b>Disposal Methods:</b>	Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance.
<b>Waste Disposal Code(s):</b>	If discarded, this product is considered a RCRA corrosive waste, D002.

## Section 14

## Transport Information

<b>Ground - DOT Proper Shipping Name:</b>	<b>Air - IATA Proper Shipping Name:</b>
UN1789	UN1789
Hydrochloric Acid	Hydrochloric Acid
Class 8	Class 8
P.G. II	P.G. II

## Section 15

## Regulatory Information

**TSCA Status:** All components in this product are on the TSCA Inventory.

<b>Chemical Name</b>	<b>CAS Number</b>	<b>§ 313 Name</b>	<b>§ 304 RQ</b>	<b>CERCLA RQ</b>	<b>§ 302 TPQ</b>	<b>CAA 112(2) TQ</b>
Hydrogen Chloride	7647-01-0	Hydrochloric acid	5000 lb RQ	5000 lb final RQ; 2270 kg final RQ	500 lb TPQ (gas only)	No

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## Section 16

## Additional Information

Revised: 2015-05-22

### Disclaimer:

The information provided in this 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 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. Information on this form is furnished solely for the purpose of compliance with the Occupational Safety and Health Act and shall not be used for any other purpose. UTILITY urges the customers receiving this Safety Data Sheet to study it carefully to become aware of the hazards, if any, of the product involved. In the interest of safety, you should notify your employees, agents, and contractors of the information on the sheets. The information herein has been compiled from sources believed to be reliable, up-to-date, and is accurate to the best of our knowledge. However, UTILITY cannot give any guarantees regarding information from other sources, and expressly does not make warranties, nor assumes any liability for its use. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified.

### Glossary

ACGIH	American Conference of Governmental Industrial Hygienists	NTP	National Toxicology Program
CAS	Chemical Abstract Service Number	OSHA	Occupational Safety and Health Administration
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act	PEL	Permissible Exposure Limit
DOT	U.S. Department of Transportation	ppm	Parts per million
IARC	International Agency for Research on Cancer	RCRA	Resource Conservation and Recovery Act
N/A	Not Available	SARA	Superfund Amendments and Reauthorization Act
		TLV	Threshold Limit Value
		TSCA	Toxic Substances Control Act
		IDLH	Immediately dangerous to life and health