

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

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

Section 4

First Aid Measures

Emergency and First Aid Procedures

Inhalation: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

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

to do. Continue rinsing.

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

> water/shower. Wash contaminated clothing before reuse. IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

Ingestion:

Section 5

Firefighting Procedures

Water fog in flooding quantities. Apply water from as far a distance as possible. **Extinguishing Media:**

Fire Fighting Methods and Protection: Firefighters should wear full protective equipment and NIOSH approved self-contained

breathing apparatus.

Fire and/or Explosion Hazards: 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.

Hazardous Combustion Products: Hydrogen chloride

Section 6

Spill or Leak Procedures

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.

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

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

Section 8 Protection Information

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

Control Parameters

Respirator Type(s): **Eye Protection:**

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): Lab coat, apron, eye wash, safety shower.

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. NIOSH approved air purifying respirator with acid gas cartridge and dust/mist filter Wear chemical splash goggles when handling this product. Have an eye wash station

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

Gloves: Natural latex,, Butyl rubber, Nitrile, Neoprene

Section 9

Physical Data

Formula: HCI Molecular Weight: 36.46 Appearance: Colorless Liquid

Odor: Strong Pungent

Odor Threshold: No data available

pH: ~1

Melting Point: No data available -114 C Boiling Point: No data available -85 C

Flash Point: No data available

Flammable Limits in Air: No data available

Vapor Pressure: 160 mmHg at 20°C Evaporation Rate (BuAc=1): 2.0 Vapor Density (Air=1): 1.267 Specific Gravity: 1.1885 Solubility in Water: Complete

Autoignition Temperature: No data available **Decomposition Temperature:** No data available

Viscosity: No data available

Percent Volatile by Volume: 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

Carbon monoxide, oxides or sulfur and other decomposition products may form from **Hazardous Decomposition Products:**

incomplete combustion. Heat can cause evolution of gaseous hydrogen chloride.

Hazardous Polymerization: Will not occur

Section 11 Toxicity Data

Routes of Entry Inhalation, ingestion, eye or skin contact.

Symptoms (Acute): Respiratory disorders
Delayed Effects: No data available

Acute Toxicity:

Chemical Name CAS Number Oral LD50 Dermal LD50 Inhalation LC50

Water 7732-18-5 Not applicable

 Hydrogen Chloride
 7647-01-0
 ORAL LD50 Rat 700 mg/kg
 DERMAL LD50 INHALATION LC50-1H Rat 3124

mg/kg ppm

Carcinogenicity:

Chemical NameCAS NumberIARCNTPOSHAHydrogen Chloride7647-01-0Not listedNot listedNot listed

Chronic Effects:

Mutagenicity: No evidence of a mutagenic effect.

Teratogenicity: No evidence of a teratogenic effect (birth defect).

Sensitization: No evidence of a sensitization effect.

Reproductive: No evidence of negative reproductive effects.

Target Organ Effects:

Acute: No information available Chronic: No information available

Section 12 Ecological Data

Overview: Slight ecological hazard. In high concentrations, this product may be dangerous to plants and/or

wildlife.

Mobility: This material is expected to have high mobility in soil. It absorbs weakly to most soil types.

Persistence: Evaporation into atmosphere, dissolved in water.

Bioaccumulation: No data
Degradability: No data
Other Adverse Effects: No data

Chemical NameCAS NumberEco ToxicityWater7732-18-5No data available

Hydrogen Chloride 7647-01-0 Aquatic LC50 (96h) Mosquitofish (Gambusia affinis) 282 MG/L

Section 13 Disposal Information

Disposal Methods: Dispose in accordance with all applicable Federal, State and Local regulations. Always

contact a permitted waste disposer (TSD) to assure compliance.

Waste Disposal Code(s): If discarded, this product is considered a RCRA corrosive waste, D002.

Section 14 Transport Information

Ground - DOT Proper Shipping Name: Air - IATA Proper Shipping Name:

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.

Chemical Name CAS § 313 Name § 304 RQ CERCLA RQ § 302 TPQ CAA 112(2)

Number TQ

Hydrogen Chloride 7647-01-0 Hydrochloric 5000 lb 5000 lb final 500 lb TPQ No

acid RQ RQ; 2270 kg (gas only)

final RQ

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