

# Safety Data Sheet

LIME DISSOLVER

SDS Revision Date:

12/14/2022



## 1. Identification

### 1.1. Product identifier

**Product Identity**

LIME DISSOLVER

**Alternate Names**

30-350, Blended Formula, Lime Dissolver, Superior Scale Remover- 1 quart

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

**Intended use**

Dissolves lime, scale, urine salts, mineral deposits. Clean concrete, clears lime-clogged hot water and boiler coils, pipes. Also cleans cooling towers, toilet bowls, urinals, valves, steam equipment, etc.

**Application Method**

Read all precautions and instructions carefully before and after use.

### 1.3. Details of the supplier of the safety data sheet

**Company Name**

ComStar International Inc.  
20-47 128th Street,  
College Point, NY 11356

**Telephone No.**

718-445-7900  
800-328-0142  
Fax: 718-353-5998

**Emergency 24 HR response No:** 1-800-424-9300 & 703-527-3887 CHEMTREC

Note: The CHEMTREC phone number is only for emergencies involving spills, leaks, fire, exposure or accident. Please direct all other inquiries to our customer service phone number.

## 2. Hazard(s) identification

### 2.1. Classification of the substance or mixture

Corrosive to metals: H290  
Category 1 May be corrosive to metals

Skin Corr/Irr: H314  
Category 1B Causes severe skin burns and eye damage.

Eye Dam/Irr: H318  
Category 1 Causes serious eye damage.

Specific target organ toxicity  
(single exposure): Category  
1

Target Organs - Respiratory  
system: H335 Category 3 May cause respiratory irritation

### 2.2. Label elements

Using the Toxicity Data listed in section 11 and 12 the product is labeled as follows.

**SIGNAL WORD**

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**DANGER**

H290 May be corrosive to metals

H314 Causes severe skin burns and eye damage

H318 Causes serious eye damage

H335 May cause respiratory irritation

### **[Prevention]:**

P234 Keep only in original container

P260 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.

P264 Wash face, hands and any exposed skin thoroughly after handling

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves / eye protection / face protection.

### **[Response]:**

P301+330+331 If swallowed: rinse mouth, do not induce vomiting.

P303+361 +353 If on skin (or hair): remove/take off immediately all contaminated clothing. Rinse skin with water / shower.

P304+340+P310 If inhaled: remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305+351 +338: If in eyes: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.

P310 Immediately call a poison center or doctor / physician.

P363 Wash contaminated clothing before reuse.

P390 Absorb spillage to prevent material damage.

### **[Storage]:**

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

P406 Store in corrosive resistant polypropylene container with a resistant in liner

Store in a dry place

### **[Disposal]:**

P501 Dispose of contents / container in accordance with local / national regulations.

### **Hazards not otherwise classified (HNOC)**

None identified

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## 3. Composition/information on ingredients

This product contains the following substances that present a hazard within the meaning of the relevant State and Federal Hazardous Substances regulations.

Ingredient/Chemical Designations	Weight %	GHS Classification	Notes
HYDROCHLORIC ACID SOLUTION CAS #: 7647-01-0	<20	Metal corrosion: category1 H290 Skin corrosion. category1B H314 Eye dam. category1 H318 Specific target organ toxicity (single exposure): category 1 H335 Target organs - Respiratory system: category 3 H335	

In accordance with paragraph (i) of §1910.1200, the specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

\*The full texts of the phrases are shown in Section 16.

## 4. First aid measures

### 4.1. Description of first aid measures

<b>General</b>	In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.
<b>Inhalation</b>	Remove to fresh air. If breathing is difficult, give oxygen. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Immediate medical attention is required.
<b>Eyes</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required.
<b>Skin</b>	Wash off immediately with plenty of water for at least 15 minutes. Immediate medical attention is required.
<b>Ingestion</b>	Do NOT induce vomiting. Call a physician or poison control center immediately.

### 4.2. Most important symptoms and effects, both acute and delayed

<b>Overview</b>	Causes burns by all exposure routes. Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation
Notes to Physician	Treat symptomatically

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## 5. Fire-fighting measures

### 5.1. Extinguishing Media

Substance is nonflammable; use agent most appropriate to extinguish surrounding fire.

### 5.2. Unsuitable Extinguishing Media

No information available

### Flash Point

No information available

### Method -

No information available

### 5.3. Autoignition Temperature

No information available

### 5.4. Explosion Limits

#### Upper

No data available

#### Lower

No data available

### Sensitivity to Mechanical Impact

No information available

### Sensitivity to Static Discharge

No information available

### 5.5. Special hazards arising from the substance or mixture

Corrosive material. Causes burns by all exposure routes. Thermal decomposition can lead to release of irritating gases and vapors.

### Hazardous Combustion Products

Hydrogen chloride gas.

### 5.6. Advice for fire-fighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

ERG Guide No. ---137

### NFPA

Health  
3

Flammability  
0

Instability  
0

Physical hazards  
N/A

## 6. Accidental release measures

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## 6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment as required. Ensure adequate ventilation. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Do not get in eyes, on skin, or on clothing.

## 6.2. Environmental precautions

Should not be released into the environment. See Section 12 for additional Ecological Information.

## 6.3. Methods and material for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up with liquid-absorbent and neutralizing material (e.g., Chemizorb® H<sup>+</sup>, Merck Art. No. 101595). Dispose of properly. Clean up affected area. Soak up with inert absorbent material. Keep in suitable, closed containers for disposal.

## 7. Handling and storage

### 7.1. Precautions for safe handling

Wear personal protective equipment/face protection. Do not breathe mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Do not ingest. If swallowed then seek immediate medical assistance.

### 7.2. Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place. Corrosives area. Incompatible Materials. Metals. Strong oxidizing agents. Bases. Sodium hypochlorite. Amines. Fluorine. Cyanides. Alkaline. See section 2 for further details. - [Storage]:

### 7.3. Specific end use(s)

No data available.

## 8. Exposure controls and personal protection

### 8.1. Control parameters

#### Exposure

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH	Mexico OEL (TWA)
Hydrochloric acid solution	Ceiling: 2 ppm	Ceiling: 7 mg/m <sup>3</sup> (Vacated) Ceiling: 5 ppm (Vacated) Ceiling: 7 mg/m <sup>3</sup>	IDLH: 50 ppm Ceiling: 5 ppm Ceiling: 7 mg/m <sup>3</sup>	Ceiling: 2 ppm

#### Legend

**ACGIH** - American Conference of Governmental Industrial Hygienists

**OSHA** - Occupational Safety and Health Administration

**NIOSH IDLH**: NIOSH - National Institute for Occupational Safety and Health

**Engineering Measures** Ensure that eyewash stations and safety showers are close to the workstation location.

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## 8.2. Exposure controls

<b>Respiratory</b>	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirators if exposure limits are exceeded or if irritation or other symptoms are experienced.
<b>Eyes/face protection</b>	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN 166.
<b>Skin and body protection</b>	Wear appropriate protective gloves and clothing to prevent skin exposure
<b>Hygiene Measures</b>	Handle in accordance with good industrial hygiene

## 9. Physical and chemical properties

<b>Appearance</b>	Red colored liquid
<b>Odor</b>	Pungent
<b>Odor threshold</b>	No information available
<b>pH</b>	<1
<b>Melting point / freezing point</b>	-35 °C / -31 °F
<b>Initial boiling point and boiling range</b>	57 °C / 135 °F @ 760 mmHg
<b>Flash Point</b>	No information available
<b>Evaporation rate (Ether = 1)</b>	No information available
<b>Flammability (solid, gas)</b>	Not applicable
<b>Upper/lower flammability or explosive limits</b>	<b>Lower Explosive Limit:</b> No data available <b>Upper Explosive Limit:</b> No data available
<b>Vapor pressure (Pa)</b>	125 mbar @ 20 °C
<b>Vapor Density</b>	1.27
<b>Specific Gravity</b>	1.18
<b>Solubility in Water</b>	Soluble in water
<b>Partition coefficient n-octanol/water (Log Kow)</b>	No data available
<b>Auto-ignition temperature</b>	No information available
<b>Decomposition temperature</b>	No information available
<b>Viscosity (cSt)</b>	1.8 mPa.s @ 15°C
<b>Molecular Formula</b>	HCl
<b>Molecular Weight</b>	36.46
<b>Volatiles (% by weight)</b>	N/A
<b>Octanol/Water Partition Coefficient</b>	N/A

### 9.2. Other information

No other relevant information.

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## 10. Stability and reactivity

### 10.1. Reactivity

None known, based on information available

### 10.2. Chemical stability

Stable under normal circumstances.

### 10.3. Possibility of hazardous reactions

Contact with metals may evolve flammable hydrogen gas.

### 10.4. Conditions to avoid

Incompatible products. Excess heat

### 10.5. Incompatible materials

Metals, Strong oxidizing agents, Bases, sodium hypochlorite, Amines, Fluorine, Cyanides, Alkaline

### 10.6. Hazardous decomposition products

Hydrogen chloride gas

### 10.7. Hazardous Polymerization

Contact with metals may evolve flammable hydrogen gas.

## 11. Toxicological information

### Acute toxicity

#### Product Information

**Oral LD50** Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg.

**Dermal LD50** Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg.

**Vapor LC50** Based on ATE data, the classification criteria are not met. ATE > 20 mg/

#### Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Hydrochloric acid solution	238 - 277 mg/kg ( Rat )	> 5010 mg/kg ( Rabbit )	1.68 mg/L ( Rat ) 1 h

**Toxicologically Synergistic Products** No information available.

### Delayed and immediate effects as well as chronic effects from short and long-term exposure.

**Irritation** Causes burns by all exposure routes.

**Sensitization** No information available.

**Carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico
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Hydrochloric acid solution	7647-01-0	Not listed	Not listed	Not listed	Not listed	Not listed
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## IARC (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans

Group 2A - Probably Carcinogenic to Humans

Group 2B - Possibly Carcinogenic to Humans

Classification	Category	Hazard Description
Mutagenic Effects		No information available
Reproductive Effects		No information available
Developmental Effects		No information available.
Teratogenicity		No information available
STOT-single exposure	---	Respiratory system
STOT-repeated exposure	---	None known
Aspiration hazard	---	No information available

Symptoms / effects, both acute and Product is a corrosive material. Use of gastric lavage or emesis is contraindicated.

Delayed	Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation
Endocrine Disruptor Information	No information available
Other Adverse Effects	The toxicological properties have not been fully investigated.

## 12. Ecological information

### 12.1. Ecotoxicity

Do not empty into drains. Large amounts will affect pH and harm aquatic organisms.

#### Aquatic Ecotoxicity

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Hydrochloric acid solution		282 mg/L LC50 96 h Gambusia affinis mg/L LC50 48 h Leuciscus idus		56mg/L EC50 72h Daphnia

### 12.2. Persistence and degradability

Persistence is unlikely based on information available.

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## 12.3. Bioaccumulative potential

No information available.

## 12.4. Mobility in soil

Will likely be mobile in the environment due to its water solubility

## 12.5. Other adverse effects

No data available.

## 13. Disposal considerations

### 13.1. Waste treatment methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification

## 14. Transport information

	DOT (Domestic Surface Transportation)	IMO / IMDG (Ocean Transportation)	ICAO/IATA
14.1. UN number	UN 1789	UN 1789	UN 1789
14.2. UN proper shipping name	UN 1789, Hydrochloric acid, solution,	Hydrochloric acid, solution	Hydrochloric acid, solution
14.3. Transport hazard class(es)	DOT Hazard Class: 8	IMDG: 8 Sub Class: Not Applicable	Air Class: 8
14.4. Packing group	II	II	II

### 14.5. Environmental hazards

IMDG Marine Pollutant: No

### 14.6. Special precautions for user

No further information

## 15. Regulatory information

### United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
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Hydrochloric acid solution	76solution47-01-0	X	ACTIVE	--
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**Legend:**

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

X - Listed

-- - Not Listed

TSCA 12(b) - Notices of Export Not applicable

**International Inventories**

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea(KECL)

Component	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
Hydrochloric acid solution 7732-18-5	X	--	231-595-7	X	X	X	X	X	KE-20189

KECL - NIER number or KE number (<http://ncis.nier.go.kr/en/main.do>)

**U.S. Federal Regulations**

**SARA 313**

Component	CAS No	Weight %	SARA 313 – Threshold Values %
Hydrochloric acid solution	7647-01-0	>20%	1.0

SARA 311/312 Hazard Categories See section 2 for more information

**CWA (Clean Water Act)**

Component	CWA - Hazardous Substances	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants
Hydrochloric acid solution	--	5000 lb.	--	--

**Clean Air Act**

Component	HAPS Data	Class 1 Ozone Depletors	Class 2 Ozone Depletors
Hydrochloric acid solution	X	--	

OSHA - Occupational Safety and Health Administration; Not applicable

Component	Specifically Regulated Chemicals	Highly Hazardous Chemicals
Hydrochloric acid solution	--	TQ: 5000 lb

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**CERCLA** This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Component	Hazardous Substances RQs	CERCLA EHS RQs
Hydrochloric acid solution	5000 lb	5000 lb

**California Proposition 65** This product does not contain any Proposition 65 chemicals.

## U.S. State Right-to-Know Regulations

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Hydrochloric acid solution	X	X	X	X	X

## U.S. Department of Transportation

Reportable Quantity (RQ): Y  
DOT Marine Pollutant N  
DOT Severe Marine Pollutant N

**U.S. Department of Homeland Security** This product contains the following DHS chemicals:  
Legend - STQs = Screening Threshold Quantities, APA = A placarded amount.

Component	DHS Chemical Facility Anti-Terrorism Standard
Hydrochloric acid solution	Release STQs - 15000lb (concentration >=37%) Release STQs - 5000lb (anhydrous) Theft STQs - 500lb (anhydrous)

## Other International Regulations

**Mexico – Grade** No information available

## Authorization/Restrictions according to EU REACH

Component	REACH (1907/2006) - Annex XIV - Substances Subject to Authorization	REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances	REACH Regulation (EC1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
Hydrochloric acid solution	---	Use restricted. See item 75. (see link for restriction details)	---

**Safety, health and environmental regulations/legislation specific for the substance or mixture**

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## 16. Other information

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

The opinions expressed are those of qualified experts within ComStar International Inc. We believe that the information contained is current as of the date of the Safety Data Sheet. Since the use of this information and of these opinions and the conditions of the use of the product are not within the control of ComStar International Inc., it is the user's obligation to determine the conditions of safe use of the product.

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