

Safety Data Sheet

LIME SOLVE

UNCONTROLLED DOCUMENT

Warsaw Chemical Co., Inc. posts our Safety Data Sheets (SDS) to our company website
ONLY. Warsaw Chemical is NOT responsible for any SDS found on other sites.

Version

1.0020

Revision Date

05/29/2015

Print Date

05/29/2015



Warsaw
Chemical

CO.
INC.

P.O. BOX 858 • Warsaw, Indiana 46581

ORDERS: 800-548-3396 • PHONE: 574-267-3251 • FAX: 574-267-3884

www.warsaw-chem.com

Section 1. Chemical product and company identification

Product Name: LIME SOLVE

Product use: Lime desolver

Contact Information: Warsaw Chemical Co., Inc.
P.O. Box 858
Warsaw, IN 46581
Tel: 1.800.548.3396
Fax: 1.574.267.3884

Emergency Phone: INFOTRAC
800.535.5053 USA & Canada
352.323.3500 International

Section 2. Hazards identification

GHS Classification:

Acute toxicity, oral (Category 3)
Aspiration hazard (Category 1)
Serious eye damage/eye irritation (Category 1)
Sensitization, respiratory (Category 1)
Skin corrosion/irritation (Category 1A, 1B, 1C)
Acute toxicity, inhalation (Category 4)

Pictogram(s):



Signal Word: DANGER

Hazard Statements:

H301 Toxic if swallowed
H304 May be fatal if swallowed and enters airways
H318 Causes serious eye damage
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled
H314 Causes severe skin burns and eye damage
H332 Harmful if inhaled

Precautionary Statement(s):

P264 Wash ... thoroughly after handling
P270 Do not eat, drink or smoke when using this product
P405 Store locked up
P501 Dispose of contents/container in accordance with federal, state and/or local regulations
P331 Do NOT induce vomiting
P280 Wear protective gloves/protective clothing/eye protection/face protection
P310 Immediately call a POISON CENTER or doctor/physician
P261 Avoid breathing dust/fumes/gas/mist/vapours/spray
P260 Do not breathe dust/fumes/gas/mist/vapours/spray
P312 Call a POISON CENTER or doctor/physician if you feel unwell

P301+310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing

P304+340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

P304+312 IN INHALED: Call a POISON CENTER or doctor/physician if you feel unwell

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Section 3. Composition/information on ingredients

Name	CAS number	% Less Than
Dye	N/E	0.1000
Surfactant	61791-24-0	1.0000
Inorganic Acid	7647-01-1	99.0000

The chemical identity of some or all components is confidential business information (trade secret) and is being withheld as permitted by 29CFR19191200 (i). No other ingredients known to be hazardous.

Section 4. First aid measures

Eye contact: Check for and remove contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.

Skin contact: Wash skin surfaces thoroughly after contact. Wash clothing and clean shoes thoroughly before reuse. Get medical attention if irritation develops.

Inhalation: Move exposed person to fresh air. If breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen clothing. Get medical attention immediately.

Ingestion: Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.

General: Physicians: No specific treatment. Treat symptomatically. Contact poison treatment specialist if large quantities have been inhaled or ingested.

See Section 11 for exposure symptoms.

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Section 5. Fire-fighting measures

Flammability: In a fire or if heated, a pressure increase will occur and the container may burst.

Extinguishing Media: Use an extinguishing agent suitable for the surrounding fire.

Protective Equipment: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with full face-piece operated in positive pressure mode.

Additional Information: Thermal decomposition products-carbon monoxide, sulfur oxides, metal oxide/oxides, halogenated compounds.

Section 6. Accidental release measures

Personal Precautions: No action should be taken involving individual risk or without suitable training. Isolate area. Avoid contact with material. Do not breath vapors. Provide adequate ventilation. Wear proper personal protective equipment.

Environmental: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform relevant authorities if the product reaches sewers, waterways or soil.

Containment/Cleanup: Stop leak if without risk. Move containers from spill area. Contain or absorb with inert dry material. Dispose of according to local regulations. See Section 1 for emergency contact information and 13 for waste disposal.

Section 7. Handling and storage

Safe Handling: Wear appropriate personal protective equipment (see Section 8). Eating drinking and smoking should be prohibited. Do not get into eyes or on skin. Do not ingest. Keep containers tightly closed. Do not reuse container.

Safe Storage: Store in accordance with local regulations. Store in original container away from foods, drink and incompatible materials. Keep container tightly closed. Do not store unlabeled. Use appropriate containment.

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Section 8. Exposure controls/personal protection

Engineering Controls: Apply technical measures to comply with occupational exposure limits. Mechanical ventilation, eyewash stations, showers where necessary.

Eye Protection: Safety eyewear/face shield complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.

Respiratory Protection: Use a properly fitted air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates necessity. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product & the safe working limits of the chosen respirator.

Hand Protection: Chemical resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Skin Protection: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

COMPONENT	ACGIH TWA ppm	OSHA/NIOSH STEL ppm	OSHA/ACGHI STEL mg/m ³
Inorganic Acid	2		7

Section 9. Physical and chemical properties

Physical State:	Liquid
Color:	Blue
Odor:	Acid
Odor Threshold:	N/E
pH:	<1
Melting Point:	-87°F
Freezing Point:	-87°F
Boiling Point:	N/E
Flash Point:	Nonflammable
Evaporation Rate:	N/E
Flammability:	Nonflammable
Upper Explosive Limits:	
Lower Explosive Limits:	
Vapor Pressure:	N/E
Vapor Density:	N/E
Relative Density:	N/E
Solubility:	Complete
Partition coefficient:	N/E
Auto-Ignition Temperature:	N/E
Decomposition Temperature:	N/E
Specific Gravity:	1.16
% Volatile:	0%

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Section 10. Stability and reactivity

Reactivity: Reactive with metals

Chemical stability: Stable under normal conditions.

Possibility of hazardous reactions: None under normal conditions.

Conditions to avoid: AVOID HEAT and open flames

Incompatible materials: STRONG OXIDIZERS, ALKALIS, reacts with metals producing flammable hydrogen gas which can form explosive mixtures with air

Hazardous Decomposition Products: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Routes of entry: Inhalation Absorption Ingestion

Acute Exposure Hazards:

Eye contact: Severe eye irritation, burns

Dermal: Skin irritation, can cause burns with contact

Oral: Corrosive to mucous membranes.

Inhalation: MIST MAY BE MILD TO STRONG IRRITANT, CORROSIVE.

COMPONENT	Result	Species	Dose	Exposure
Surfactant	LD50 ORAL	Rat	55-110 mg/kg	
	LC50	Minnow	10-20 mg/L	
Inorganic Acid	LD50 ORAL	rat	700mg/kg	

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Section 12. Ecological information

Ecotoxicity: No data available.

Persistence & degradability: No data available.

Bioaccumulative potential: No data available.

Mobility in soil: No data available.

Other adverse effects: No data available.

Component	Result	Species	Dose	Exposure
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Section 13. Disposal considerations

Material that cannot be saved for recovery or recycling should be managed in an appropriate and approved waste facility. Processing, use or contamination of this product may change the waste management options. Waste generators must decide if discarded material is a hazardous waste. State and local disposal regulations may differ from federal disposal definitions. Dispose of container and unused contents in accordance with federal, state and local requirements.

Section 14. Transport information

DOT (US)

UN Number: UN1760

Shipping Name: CORROSIVE LIQUIDS, N.O.S.

Technical Name: (HYDROCHLORIC ACID)

Hazard Class: 8

Packaging Group: II

Section 15. Regulatory information

SARA 313 Components

Surfactant	CAS No.	% Less Than
	61791-24-0	1.0000
Inorganic Acid	7647-01-1	99.0000

California Prop. 65 Components

CAS No.	% Less Than
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Section 16. Other information

Hazardous Material Information System (U.S.A.)

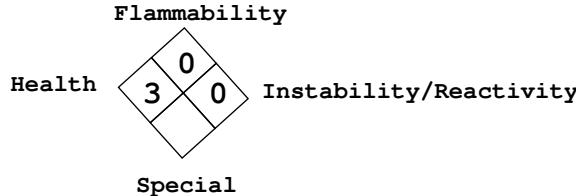
Health Hazard	(3)
Fire Hazard	(0)
Reactivity	(0)
Personal Protection	(C)

Caution: HMIS ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks and 4 representing significant hazards or risks.

PERSONAL PROTECTION INDEX

A	Safety Glasses
B	Safety Glasses, Gloves
C	Safety Glasses, Gloves, Apron
D	Face Shield, Gloves, Apron
E	Safety Glasses, Gloves, Dust Respirator
F	Safety Glasses, Gloves, Apron, Dust Respirator
G	Safety Glasses, Gloves, Vapor Respirator
H	Splash Goggles, Gloves, Apron, Dust & Vapor Respirator
I	Safety Glasses, Gloves, Dust & Vapor Respirator
J	Splash Goggles, Gloves, Apron, Dust & Vapor Respirator
K	Airline Hood or Mask, Gloves, Full Suit, Boots
X	Consult your supervisor for special handling directions

National Fire Protection Association (U.S.A.)



NFPA warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals.

Information on this form is furnished solely for the purpose of compliance with the Occupational Safety and Health Act of 1970 and shall not be used for any other purpose. Use or dissemination of all or any part of this information can be grounds for legal action.

To the best of our knowledge, the information provided in this Safety Data Sheet is accurate as of the date of its issue. However, NOTHING HEREIN IS TO BE CONSTRUED AS A WARRANTY, EXPRESS OR OTHERWISE. The information this Safety Data Sheet contains is being given for safety guidance purposes and relates only to the specific material and uses described in it. This information does not necessarily apply to that material when combined with other material(s) or when used otherwise than as described herein.

In all cases, it is the responsibility of the user to determine the applicability of such information and recommendations and the suitability of any product for its own particular purpose. All materials may represent unknown hazards and should be used with caution.