

Product Name: DE-LIME

SECTION 1	PRODUCT AND COMPANY IDENTIFIER
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PRODUCT IDENTIFIER

Product Name Lime Soap Cleaner
Product Form Liquid

RECOMMENDED USE AND RESTRICTIONS ON USE

Cleaning solution for removing lime, soap and detergent deposits

COMPANY IDENTIFICATION

Manufacturer Superior Manufacturing
4520 Glenmeade Ln
Auburn Hills, MI 48326
866.523.5677

EMERGENCY TELEPHONE NUMBER

24 Hour Emergency Phone Number (Health & Safety; Transportation) INFOTRAC - (800) 535-5053

SECTION 2	HAZARDS IDENTIFICATION
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GHS CLASSIFICATION

Product has not been tested as a whole to determine its GHS classification. Hazard categories are based on individual ingredient hazard categories. Refer Section 16 for additional GHS Phrases.

HAZARD CLASS	HAZARD CATEGORY
Eye Damage/Irritation	1
Skin Corrosion/Irritation	1
Aquatic Hazard (Acute)	3

GHS LABEL ELEMENTS

Pictogram



GHS Signal Word
DANGER

GHS Hazard Phrases

Causes severe burns and eye damage.
Harmful to aquatic life.

GHS Precaution Phrases

Wear protective gloves. Wear eye or face protection. Wear protective clothing.
Avoid release to the environment.
Wash hands thoroughly after handling.

GHS Response Phrases

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or physician.

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IF SWALLOWED: Immediately call a POISON CENTER or physician. Rinse mouth. Do NOT induce vomiting.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash contaminated clothing before reuse. Immediately call a POISON CENTER or physician.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or physician.

GHS Storage and Disposal Phrases

Store locked up.
Dispose of waste in accordance with local, state and federal legislation.

POTENTIAL HEALTH EFFECTS (Acute and Chronic)

Chronic: Product has not been tested as a whole to determine its acute and long-term effects. The product does contain ingredients that potentially may affect from repeated excessive exposures.

Acute- Inhalation May give off gas, vapor or dust that is very irritating or corrosive to the respiratory system.

Acute-Skin Contact Causes severe burns.

Acute-Eye Contact Causes severe eye damage.

Acute-Ingestion May cause burns to mouth, throat and stomach.

+SECTION 3	COMPOSITION / INFORMATION INGREDIENTS
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Chemical Name	Cas Number	Percentage Range
Phosphoric acid	7664-38-2	10 - 30
Nonylphenol, ethoxylated	9016-45-9	0.1 - 1

SECTION 4	FIRST AID MEASURES
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IN CASE OF INHALATION

Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway.

IN CASE OF SKIN CONTACT

Get medical attention immediately. Call a poison center or physician. Wash contaminated skin with soap and water. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 20 minutes. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.

IN CASE OF EYE CONTACT

Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 20 minutes. Chemical burns must be treated promptly by a physician.

IN CASE OF INGESTION

Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person.

SIGNS AND SYMPTOMS OF EXPOSURE

N/D = Not Determined N/A = Not Applicable N/AV = Not Available

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Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

Skin irritation. May cause redness, blistering and pain.

Ingestion. Stomach pains.

NOTE TO PHYSICIAN

Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled

SECTION 5	FIRE FIGHTING MEASURES
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Flashpoint	N/AV
Flashpoint Method	N/A

Explosive Limits	LEL: N/AV UEL: N/AV
Auto Ignition Point	N/D

SUITABLE EXTINGUISHING MEDIA

Use an extinguishing agent suitable for the surrounding fire.

FIRE FIGHTING INSTRUCTIONS

As in any fire, wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Specific

Hazard(s): This material is harmful to aquatic life. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

FLAMMABLE PROPERTIES AND HAZARDS

No data available.

SECTION 6	ACCIDENTAL RELEASE MEASURES
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SAFETY PRECAUTIONS

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

CONTAINMENT AND CLEANUP

This product is miscible in water.

Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). The spilled material may be neutralized with sodium carbonate, sodium bicarbonate or sodium hydroxide. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

SECTION 7	HANDLING AND STORAGE
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PRECAUTIONS TO BE TAKEN IN HANDLING

Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Avoid release to the environment. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Keep away from alkalis. Empty containers retain product residue and can be hazardous. Do not reuse container.

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PRECAUTIONS TO BE TAKEN IN STORAGE

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Separate from alkalis. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

SECTION 8	EXPOSURE CONTROLS / PERSONAL PROTECTION
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Cas Number	Chemical Name	OSHA TWA	ACGIH TWA
7664-38-2	Phosphoric acid	1 mg/m ³ , 8 hrs.	1 mg/m ³ , 8 hrs.

ENGINEERING CONTROLS

If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

WORK/HYGIENIC/MAINTENANCE PRACTICES

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

PERSONAL PROTECTIVE EQUIPMENT

Respiratory Protection

Use a properly fitted, air-purifying or supplied air respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected 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. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Eye Protection

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.

Skin and Body 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.

OTHER PROTECTIVE EQUIPMENT

Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

SECTION 9	PHYSICAL AND CHEMICAL PROPERTIES
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Product Name: Lime Soap Cleaner

Appearance	Clear, reddish
Physical State	Liquid
Odor	Spearmint
pH	2
Freezing Point	N/AV
Boiling Point	212 °F initial

Specific Gravity (water = 1)	1.06
Vapor Pressure	N/AV
Evaporation Rate (water = 1)	1
Viscosity	N/AV
Volatile Organic Compound (%)	N/AV
Solubility in Water	Complete

SECTION 10	STABILITY/REACTIVITY
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Chemical Stability *Unstable* [] *Stable* [X]
Conditions to Avoid Hot surfaces.
Reactivity / Incompatibility Bases, reactive metals, strong oxidizing agents.
Hazardous Decomposition Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Hazardous Reactions *Will occur* [] *Will not occur* [X]

SECTION 11	TOXICOLOGICAL INFORMATION
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CARCINOGENICITY

Product is not tested for carcinogenicity. No components of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen, except as identified below;

IARC: Not Listed **ACGIH:** Not Listed **NTP:** Not Listed

PRODUCT TOXICOLOGICAL DATA

Product is not tested for classification under the following categories:

LD50 (Oral), LC50 (Inhalation), Dermal Toxicity (Skin), Skin Corrosion/Irritation, Serious Eye Damage/Irritation, Respiratory/ Skin Sensitization, Germ Cell Mutagenicity, Carcinogenicity, Reproductive Toxicity, STOT-single exposure, STOR-repeated exposure, Aspiration Hazard

INGREDIENT TOXICOLOGICAL DATA

None of the ingredients above 1% concentration (0.1% for carcinogens) trigger the hazard rating or classify under the following categories, unless indicated below:

LD50 (Oral), LC50 (Inhalation), Dermal Toxicity (Skin), Skin Corrosion/Irritation, Serious Eye Damage/Irritation, Respiratory/ Skin Sensitization, Germ Cell Mutagenicity, Carcinogenicity, Reproductive Toxicity, STOT-single exposure, STOR-repeated exposure, Aspiration Hazard

Cas Number	Chemical Name		
7664-38-2	Phosphoric acid	LD50 Oral (rat)	1250 mg/kg

Nonylphenol, ethoxylated (Cas Number 9016-45-9) is listed as a severe eye irritant and a mild skin irritant.

SECTION 12	ECOLOGICAL INFORMATION
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General Ecological Information N/AV **Persistence and Degradability** N/AV
Bioaccumulative Potential N/AV **Mobility in Soil** N/AV

INGREDIENT TOXICOLOGICAL DATA

Cas Number	Chemical Name		
7664-38-2	Phosphoric acid	LC50 96 hr. fish	138 ppm

Product Name: Lime Soap Cleaner

9016-45-9	Nonylphenol, ethoxylated	EC50 48 hr. crustacea	0.148 mg/l
		LC50 96 hr. fish	4700 mg/l
		EC50 algae 96 hr.	12 mg/l

SECTION 13	DISPOSAL CONSIDERATION
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The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Contaminated Packaging Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way.

Empty Containers Care should be taken when handling empty containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues.

SECTION 14	TRANSPORT INFORMATION
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	LAND (US DOT)		
Proper Shipping Name	Compounds, cleaning liquid (contains phosphoric acid)		
Hazard Class	8		
ID Number	NA1760		
Packing Group	III		
	INTERNATIONAL OR AIR		
Proper Shipping Name	Corrosive liquids, N.O.S. (contains phosphoric acid)		
Hazard Class	8		
ID Number	UN1760		
Packing Group	III		

Additional Information

DOT Quantity Limitation: Per 49 CFR §173.154 (b) (2), this product qualifies for the LIMITED QUANTITIES exception when packaged in inner packaging not over 5.0 L (1.3 gallons) net capacity each, packed in a strong outer packaging. This does not apply to transportation by vessel or aircraft.

DOT Label for Limited Quantities: N/A

SECTION 15	REGULATORY INFORMATION
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EPA SARA (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986) LISTS

[302 (EHS) TPQ, 304 RQ, 313 TRI]

Phosphoric acid	7664-38-2	5,000 lbs.	CERCLA RQ
Product		36,683.8 lbs.	CERCLA RQ

SARA TITLE III SECTION 311/312 CATEGORIZATION (40 CFR 370)	YES	NO
Acute (Immediate) Health Hazard	X	
Chronic (Delayed) Health Hazard		X

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Fire Hazard		X
Sudden Release of Pressure Hazard		X
Reactive Hazard		X

STATE AND OTHER US EPA REGULATIONS

California Prop. 65 This product is not subject to warning labeling under California Proposition 65

STATE Right to Know	CAS Number	Chemical Name
Massachusetts	7664-38-2	Phosphoric acid
New Jersey	7664-38-2	Phosphoric acid
New York	7664-38-2	Phosphoric acid
Pennsylvania	7664-38-2	Phosphoric acid

WHMIS CLASSIFICATION (1988) N/D

NATIONAL INVENTORIES

TSCA	Yes
CAA HAP, ODC	No
CWA NPDES	Yes
CEPA (DSL/NDL)	Yes
KECI	N/D

AICS	N/D
IECSC	N/D
EINECS	Yes
ENCS	N/D
PICCS	N/D

SECTION 16	OTHER INFORMATION
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ADDITIONAL GHS PHRASES

GHS phrases provided below are in addition to the phrases available in Section 2. GHS phrases are identified in accordance with GHS regulations and are triggered for each hazard category.

N/A

THIS SAFETY DATA SHEET CONTAINS THE FOLLOWING REVISIONS

New format

USER RESPONSIBILITY It is the user's responsibility to determine the suitability and adopt precautions as may be advisable for the protection of property and persons against any hazards that may be involved in the handling and use of this product.

PREPARED BY

Superior Manufacturing

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