



Section 1 – Product & Company Identification

Product Name: **Delimer**
 Product ID Number: 115
 Product Use: Lime Remover / Cleaner
 EPA Reg. Number: N/A
 Manufacturer: Arrow Chemical Products, Inc.
 2067 Ste. Anne
 Detroit, MI 48216
 Telephone: 313-237-0277
 Numbers: 24 hr. Emergency Assistance: Infotrac 1-800-535-5053

Section 2 – Composition/Information on Ingredients

INGREDIENT	CAS #	% by Weight	Exposure Limits	LC ₅₀ /LD ₅₀
Phosphoric Acid	7664-38-2	<25%	PEL: 1 mg/m ³ STEL: 3 mg/m ³	
Hydrochloric Acid	7647-01-0	<3%	7 mg/m ³	

Section 3 – Hazards Identification

Emergency Overview:

Potential Health Effects:

Acute: Fatal if swallowed. Causes irreversible eye damage and skin burns. Harmful if inhaled. Avoid breathing vapor or spray mist.
 Chronic: None known.
 Carcinogenic Effects: Not classified or listed by IARC, NTP, OSHA, EU and ACGIH.

Section 4 – First Aid Measures

Eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.
 Skin/Clothing: Immediately flush with plenty of water for 15-20 minutes. Remove contaminated clothing. Call poison control center or doctor for treatment advice.
 Inhalation: Remove person to fresh air. If not breathing, call 911 or an ambulance then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.
 Ingestion: Call poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do **NOT** induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.
 Note to Physician:

Section 5 – Fire Fighting Measures

Hazardous Combustion Products: Non established.
 Extinguishing Media: Use OSHA approved self-contained breathing apparatus and protective clothing when any materials are involved in a fire.
 Fire Fighting Equipment & Instructions: Use OSHA approved self-contained breathing apparatus and protective clothing when any materials are involved in a fire.
 Remarks on Explosion Hazard: None expected

Section 6 – Accidental Release Measures

Spill and Leak Procedures

Small Spills: Not Applicable.
 Large Spills: Comply with all Federal, State and Local reporting requirements.
 Personal Protection for Large Spills: Clean-up personnel must wear proper protective equipment.

Section 7 – Handling & Storage

Handling Procedures: Keep container closed when not in use.
 Storage Procedures: KEEP OUT OF REACH OF CHILDREN. Store in a dry place no lower in temperature than 50° F or higher than 120° F. Store in a tightly closed container in a secure area inaccessible to children. Store away from oxidizing agents, alkalis, metal and heat.
 Incompatibility: Materials to avoid: oxidizing agents, alkalis, and metal.

Section 8 – Exposure Controls/Personal Protection

Engineering Controls: Good general ventilation should be sufficient for most conditions.
Personal Protective Equipment:
 Eyes/Face: Splash proof chemical safety goggles. Full face shield.
 Skin: Rubber gloves or other impervious gloves. Rubber footwear should be used. Safety shower recommended in all storage and handling areas.
 Respiratory: No special equipment normally needed.
 The following ingredients have established exposure guidelines:

INGREDIENT:	EXPOSURE GUIDELINE	GUIDELINE VALUE
Phosphoric Acid	PEL / STEL	1 mg/m ³ / 3 mg/m ³
Hydrochloric Acid	PEL	7 mg/m ³

All TWAs are for an 8-hour period and all STELs are for 15 minutes unless specifically noted as being for another time period.

Section 9 – Physical & Chemical Properties

Flash Point: N/A
 Specific Gravity: 1.147
 Melting/Freezing Point: N/A
 VOC Content: N/A
 Evaporation Rate (Water = 1): 1
 pH: 1.0 – 1.5
 Solubility: Complete
 Flammable Limits: N/A
 Explosion Hazards: None
 Appearance and Odor: Clear Liquid, Mild Acid/Detergent Odor

Section 10: Stability & Reactivity

Chemical Stability: Stable

Incompatibilities: Strong Alkalis, bleach.

Hazardous Decomposition: Heating phosphoric acid to decomposition yields toxic phosphorus pentoxide fumes.

Section 11 – Toxicological Information

Routes of Entry: Eyes, skin, ingestions, inhalation

Carcinogenicity: No Carcinogenicity data available for this product.

Toxicity to Animals: No data

Acute Oral LD50:

Acute Dermal LD50:

Acute Effects on Humans: Corrosive. Fatal if swallowed.

Chronic Effects: There is no known effect from chronic exposure to this product.

Special Remarks on Toxicity: Corrosive.

CHEMICAL INGREDIENTS LISTED AS POTENTIAL OR KNOWN CARCINOGENS

INGREDIENT:	OSHA	NTP	IARC
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No ingredients listed in this section.

Section 12 – Ecological Information

Ecotoxicity: Emptied container may retain vapor and product residue.

Environmental Fate: Emptied container may retain vapor and product residue.

Section 13 – Disposal Considerations

Disposal Instructions: Do not reuse container. Triple rinse empty container with water. Plastic containers may be offered for recycling. Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Section 14 – Transportation Information

DOT Hazard Class: 8

DOT Proper Shipping Name: Phosphoric Acid Solution, 8, UN1805, PGIII

TDG Classification: Not controlled under TDG (Canada).

Section 15 – Regulatory Information

TSCA Status

All ingredients are listed on the TSCA Chemical Inventory.

DSL/NDSL: All components listed unless noted elsewhere on this MSDS.

CERCLA/SARA

SARA Title III, Sections 311/312 – This act requires reporting under the Community Right-to-Know provisions due to the inclusion of the following components of this material in one or more of the five hazard categories listed in the 40 CFR 370: Classification of this product:

SARA Title 313 – This act requires submission of annual reports of releases of the following components of this material if the threshold reporting quantities, as listed in 40 CFR 372, are met or exceeded:

CHEMICAL NAME	CAS NO.	MAXIMUM CONCENTRATION	COMMENT
Phosphoric Acid	7664-38-2		
Hydrochloric Acid	7647-01-0		

Reportable Quantities/Threshold Planning Quantities: CERCLA requires notification of the National Response Center (Telephone 1-800-424-8802) in the event of a release of quantities of the following hazardous materials contained in this product, if the release is equal to or greater than the Reportable Quantities (RQs). SARA 302/304 requires emergency planning, including agency notification, for possible release of the following components of this material, based upon the Threshold Planning Quantities (TPQs) and/or release of Reportable Quantities.

CHEMICAL NAME	REPORTABLE QUANTITY (RQ)	THRESHOLD PLANNING QUANTITY (TPQ)
Phosphoric Acid	5,000 Lbs.	
Hydrochloric Acid	5,000 Lbs.	

State & Provincial Right to Know & Selected Regulatory Lists

The following ingredients appear on various state right to know lists and/or California's Proposition 65 List

CHEMICAL NAME

None
 AZ – Arizona Ambient Air Quality Guidelines
 CT – Connecticut Hazardous Air Pollutants
 CA – California Director's List of Hazardous Substances
 CA65C – California Prop 65 Carcinogen
 CA65R – California Prop 65 Reproductive Toxin
 FL – Florida Substances List
 ID – Idaho Non-carcinogen Toxic Air Pollutants

STATE LIST

None
 IL – Illinois Toxic Air Contaminant – Carcinogenic
 MA – Massachusetts Right to Know List
 MN – Minnesota Hazardous Substance List
 NJ – New Jersey Right to Know List
 PA – Pennsylvania Right to Know List
 RI – Rhode Island Hazardous Substance List

WHMIS Classification: Not controlled under WHMIS (Canada).

Section 16 – Other Information

Hazard Ratings

Hazard Rating Scale:

Hazard Rating Scale:

4 = Extreme

3 = High

2 = Moderate

1 = Slight

0 = Insignificant

HEALTH	2
FLAMMABILITY	0
REACTIVITY	0

Information Contact: Arrow Chemical Products, Inc., 2067 Ste. Anne, Detroit, MI 48216

The seller makes no warranty expressed or implied concerning the accuracy of any results to be obtained from the use of any information and no warranty expressed or implied concerning the use of the products. The buyer assumes all risks of the use and/or handling.