



SAFETY DATA SHEET
Calcium Reducer - 0600

Product Name: Calcium Reducer
Date: 6/16/2015

SECTION 1 **IDENTIFICATION**

Supplier: Phoenix Products Company
55 Container Drive
Terryville, CT 06786
(860) 589-7502

Distributor:

U.S. PERS Emergency Telephone: 1-800-633-8253
Product Name: Calcium Reducer
Synonyms: Not Available
Chemical Name: Phosphonic Acid Mixture
Chemical Formula: Not Available
CAS Number: 7647-01-0, 10294-56-1
Product Use: Reduces calcium hardness in pools and spas.

SECTION 2 **HAZARDS IDENTIFICATION**

EMERGENCY OVERVIEW

Danger



Hazard Statement(s):

H290: May be corrosive to metals.
H302: Harmful if swallowed.
H314: Causes severe skin burns and eye damage.
H318: Causes serious eye damage.

Precautionary Statement(s):

P234: Keep only in original container.
P260: Do not breathe dust or mist.
P264: Wash skin thoroughly after handling.
P270: Do not eat, drink or smoke when using this product.
P280: Wear protective gloves/ protective clothing/ eye protection/ face protection.

P301+P312+P330: IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth.

P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353: IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.

P304+P340+P310: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician.

P305+P351+P338+P310: 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 doctor/ physician.

P363: Wash contaminated clothing before reuse.

P390: Absorb spillage to prevent material damage.



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SECTION 2 **HAZARDS IDENTIFICATION - Continued**

- P405: Store locked up.
P406: Store in corrosive resistant stainless steel container with a resistant inner liner.

P501: Dispose of contents/ container to an approved waste disposal plant.

Potential Health Effects

- Eye Contact:** Corrosive; causes eye burns and permanent tissue damage.
Skin Contact: Corrosive; causes permanent skin damage.
Ingestion: Corrosive to mouth, esophagus and stomach.
Inhalation: May cause burns to the respiratory tract.

Cancer Statement: This product (or any component at a concentration of 0.1% or greater) is not listed by the NTP, IARC, OSHA or EPA as a carcinogen.

SECTION 3 **COMPOSITION, INFORMATION ON INGREDIENTS**

Components of this mixture may be proprietary information. In the event of a medical emergency, compositional information will be provided to a physician or nurse.

This product is hazardous as defined in 29 CFR910.1200, based on the following compositional information:

<u>Component</u>	<u>CAS Number</u>	<u>Percent</u>
Hydrochloric Acid	7647-01-0	~1.5%
Phosphorous Acid	10294-56-1	<1%
Phosphonic Acid	Mixture	50%-60%

SECTION 4 **FIRST-AID MEASURES**

Eye Contact: Immediately flush eyes with large amounts of water for at least 15 minutes while frequently lifting the upper and lower eyelids. Get immediate medical attention.

Skin Contact: Immediately wash with large amounts of water; use soap if available. Remove contaminated clothing, including shoes, after washing has begun. Get immediate medical attention.

Ingestion: If swallowed, DO NOT induce vomiting. If individual is conscious, give milk or water to dilute stomach contents. Keep warm and quiet. Get prompt medical attention. DO NOT attempt to give anything by mouth to an unconscious person.

Inhalation: If symptoms develop, remove individual to fresh air and get medical attention. If breathing is difficult, give oxygen. If breathing stops, give artificial respiration.

SECTION 5 **FIRE FIGHTING MEASURES**

Flashpoint and Method: >200°F

Flammable Limits: Not Available.

Autoignition Temperature: Not Available

Extinguishing Media: Use extinguishing agent suitable for type of surrounding fire.



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Fire Fighting Procedures: Use water spray to cool fire exposed surfaces and to protect personnel. Isolate 'fuel' supply from fire.

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

SECTION 6 **ACCIDENTAL RELEASE MEASURES**

Environmental Precautions

Water Spill: Prevent additional discharge of material, if possible to do so without hazard. Warn occupants and downstream/downwind areas of corrosive release hazard and request all to stay clear. As this material will sink and is soluble/dispersible, it is probably not recoverable.

Land Spill: Prevent additional discharge of material, if possible to do so without hazard. Warn occupants and downwind areas of corrosive release hazard and request all to stay clear. For small spills implement cleanup procedures; for large spills implement cleanup procedures and, if in public area, advise authorities.

General Procedures: Contain spilled liquid with sand or earth. Recover by pumping or with suitable absorbent.

SECTION 7 **HANDLING AND STORAGE**

General Procedures: DO NOT pressurize, cut, heat, or weld containers. Empty product containers may contain product residue. DO NOT reuse empty containers without commercial cleaning or reconditioning.

Storage Temperature: Keep from freezing.

Storage Pressure: Atmospheric.

SECTION 8 **EXPOSURE CONTROLS/PERSONAL PROTECTION**

Components with Exposure Limits

		OSHA PEL		ACGIH TLV		Supplier OEL	
		ppm	mg/m ³	ppm	mg/m ³	ppm	mg/m ³
Hydrochloric Acid	TWA	---	---	---	---	---	---
	STEL	5	7	2	2.98	---	---

Comments: Values under STEL are "ceiling limits."
Hydrochloric Acid IDLH: 50 ppm

Exposure Guidelines

Engineering Controls: Ventilation should be provided to control worker exposures and prevent health risk; and as necessary to reduce, prevent and control aerosol generation.

Personal Protective Equipment

Eyes and Face: Chemical goggles and face shield required.

Skin: Where contact may occur, wear chemical resistant gloves, chemical jacket/apron and rubber boots.



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Respiratory: Where overexposure by inhalation may occur and engineering, work practice or other means of exposure reduction are not adequate, approved respirators may be necessary.

Other Use Precautions: Safety shower and eyewash station are necessary in area of use.

SECTION 9 **PHYSICAL AND CHEMICAL PROPERTIES**

Appearance:	Clear Amber Liquid
Odor:	Mild Odor
pH:	<2
Solubility in Water:	Soluble
Percent Volatile:	45% @ 25°C
Boiling Point:	>212°F
Freezing Point:	<32°F
Specific Gravity:	1.42 @ 68°F
Vapor Pressure:	17 mmHg @ 20°C

SECTION 10 **STABILITY AND REACTIVITY**

Stable: Yes

Hazardous Polymerization: No

Hazardous Decomposition: Phosphines, Carbon Monoxide and Dioxide, oxides of Nitrogen.

Incompatible Materials: Avoid contact with strong alkalis. Also avoid contact with strong oxidizing agents.

SECTION 11 **TOXICOLOGICAL INFORMATION**

Acute Dermal LD₅₀: LD50 Rat = 7,142 mg/kg

Acute Oral LD₅₀: LD50 Rat = 5,848 mg/kg

Carcinogenicity: This product (or any component at a concentration of 0.1% or greater) is not listed by the NTP, IARC, OSHA or EPA as a carcinogen.

SECTION 12 **ECOLOGICAL INFORMATION**

Ecotoxicological Information:

96 HR LC50: Rainbow Trout > 360 mg/l

48 HR LC50: Daphnia = 5,270 mg/l

SECTION 13 **DISPOSAL CONSIDERATIONS**

Empty Container: "Empty" containers retain product residue (liquid and/or vapor) and can be dangerous. Empty drums should be completely drained, properly bunged and promptly returned to a drum reconditioner, or properly disposed of.



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RCRA/EPA Waste Information: Product, as sold, should be tested prior to disposal, as it may be a RCRA Characteristic Hazardous Waste if it meets the definition/characteristic of corrosivity (designated as D0002).

General Comments: Ensure compliance with local, state, and Federal regulations in disposing of this container, residual contents, or rinsing.

SECTION 14	TRANSPORTATION DATA
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DOT:	UN Number:	3265
	UN Proper Shipping Name:	Corrosive liquid, acidic, organic, n.o.s.
	Transport Hazard Class:	8
	Packing Group:	II
TDG:	UN Number:	3265
	UN Proper Shipping Name:	Corrosive liquid, acidic, organic, n.o.s.
	Transport Hazard Class:	8
	Packing Group:	II
MEX:	UN Number:	3265
	UN Proper Shipping Name:	Corrosive liquid, acidic, organic, n.o.s.
	Transport Hazard Class:	8
	Packing Group:	II
IATA:	UN Number:	3265
	UN Proper Shipping Name:	Corrosive liquid, acidic, organic, n.o.s.
	Transport Hazard Class:	8
	Packing Group:	II

SECTION 15	REGULATORY INFORMATION
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United States

Sara Title III (Superfund Amendments and Reauthorization Act)

Fire: No **Pressure Generating:** No **Reactivity:** No **Acute:** Yes **Chronic:** No

311/312 Hazard Categories: Acute Health

CERCLA (Comprehensive Response, Compensation, and Liability Act): If this product is accidentally spilled, it is not subject to any special reporting under the requirements of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). We recommend you contact local authorities to determine if there may be other local reporting requirements.



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Reportable Spill Quantity: >300,000

EPA RQ Ingredient: Hydrochloric Acid (CAS# 7647-01-0)

TSCA (Toxic Substance Control Act): This product is listed on the TSCA Inventory.

RCRA Status: Discarded product, as sold, would be considered a RCRA Characteristic Hazardous Waste as it meets the definition/characteristic of corrosivity (designated as D002).

SECTION 16	ADDITIONAL INFORMATION
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HMIS Classification	
Health Hazard	3
Flammability	0
Physical Hazards	1

No representations or warranties, either expressed or implied, of merchant ability, fitness for a particular purpose or any other nature are made hereunder with respect to information or the product to which information refers.

Date: 6/16/2015
Phoenix Products Company