



Water Guard Inc.

Safety Data Sheet

Product Identifier: Phosphoric Acid 75-85%

Revision Date: May 27, 2015

Section 1 - IDENTIFICATION

Product Identifier:

Material Name: Phosphoric Acid 75-85%

Chemical Family

Acids, inorganic

Recommended Use

Cleaner, fertilizer, used in food product or food mixture, cleaning agent

Restrictions on Use

Authorizations are limited to professional users

Manufacturer Information

Water Guard Inc.
P.O. Box 2226
Wilson, N.C. 27894

Phone: +1-800-872-7665
Web Site: www.waterguardinc.com
Emergency # +1-800-633-8253 (PERS)

Section 2 - HAZARD(S) IDENTIFICATION

Classification in accordance with 29 CFR 1910.1200.

Acute Toxicity (Oral), Category 4

Skin Corrosion / Irritation, Category 1

Eye Damage / Irritation, Category 1

Specific Target Organ Toxicity - Single Exposure, Category 3 (respiratory tract irritation)

GHS LABEL ELEMENTS

Symbol(s)



Signal Word

DANGER

Hazard Statement(s)

Harmful if swallowed

Causes severe skin burns and eye damage

May cause respiratory irritation

Precautionary Statement(s)

Prevention

Do not breathe vapor or mist. Wash thoroughly after handling. Do not eat, drink, or smoke when using this product. Wear protective gloves/clothing and eye/face protection. Use only outdoors or in a well-ventilated area.



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Response

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER or doctor/physician. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/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 doctor/physician.

Storage

Store in a well-ventilated place. Keep container tightly closed. Store locked up.

Disposal

Dispose of material in accordance with all local, regional, national and international regulations.

Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

CAS	Component	Percent
7664-38-2	Phosphoric acid	75-85

Section 4 - FIRST-AID MEASURES

Description of Necessary Measures

Inhalation

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get immediate medical attention. If breathing is difficult, oxygen should be administered by qualified personnel.

Skin Contact

Wash skin with soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get immediate medical attention. Thoroughly clean and dry contaminated clothing before reuse. Destroy heavily contaminated shoes.

Eye Contact

Get medical attention immediately. Immediately flush eyes with plenty of water for at least 15 minutes. Remove any contact lenses to ensure thorough flushing.

Ingestion

Get immediate medical attention. If swallowed, do not induce vomiting. Rinse mouth out with water.

Most Important Symptoms/Effects

Acute

Harmful if swallowed, respiratory tract irritation, skin burns, eye damage

Delayed

skin burns, eye damage

Indication of Immediate Medical Attention and Special Treatment Needed, If Needed

Treat symptomatically and supportively. Effects may be delayed. Keep affected person under observation.

Section 5 - FIRE-FIGHTING MEASURES

Extinguishing Media

Use carbon dioxide, regular dry chemical, regular foam or water.

Unsuitable Extinguishing Media

None known.



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Special Hazards Arising from the Chemical

Hazardous Combustion Products

Combustion: oxides of phosphorus

Special Protective Equipment and Precautions for Firefighters

Negligible fire hazard.

Fire Fighting Measures

Move container from fire area if it can be done without risk. Cool containers with water spray until well after the fire is out. Avoid inhalation of material or combustion by-products.

Protective Equipment and Precautions for Firefighters

Wear full protective fire fighting gear including self contained breathing apparatus (SCBA) for protection against possible exposure.

Section 6 - ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Wear personal protective clothing and equipment, see Section 8.

Methods and Materials for Containment and Cleaning Up

Keep unnecessary people away, isolate hazard area and deny entry. Ventilate closed spaces before entering. Stop leak if possible without personal risk. Stay upwind and keep out of low areas. Do not touch spilled material. Contain the discharged material. Avoid discharge into drains, surface water or groundwater. Absorb with sand or other non-combustible, absorbent material. Flush contaminated areas with water. Neutralize prior to disposal. Dispose in accordance with all applicable local regulations. Notify Local Emergency Planning Committee and State Emergency Response Commission for release greater than or equal to RQ (U.S. SARA Section 304). If release occurs in the U.S. and is reportable under CERCLA Section 103, notify the National Response Center at (800)424-8802 (USA) or (202)426-2675 (USA).

Section 7 - HANDLING AND STORAGE

Precautions for Safe Handling

No special handling precautions during normal use. Do not breathe vapor or mist. Do not get in eyes, on skin, or on clothing. Do not eat, drink, or smoke when using this product. Wear protective clothing to prevent contact. Handle as a corrosive liquid. When mixing, slowly add to water to minimize heat generation and spattering. Keep emergency spill kit near storage and use areas. Use protective skin cream on exposed skin before and during work shift. After handling, always wash hands thoroughly with soap and water. Keep well away from foodstuffs, food containers and food preparation and consumption areas. Use only in well ventilated areas.

Conditions for Safe Storage, including any Incompatibilities

Keep container tightly closed and dry. Protect from freezing. Keep away from heat. Avoid direct sunlight. Store above 20 °C.

Incompatibilities: alkalis, metals, combustible materials, metal salts. Flammable hydrogen gas can be generated in contact with metals.



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*****Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION*****

Component Exposure Limits

Phosphoric acid (7664-38-2)

- ACGIH:** 1 mg/m3 TWA
3 mg/m3 STEL
- OSHA:** 1 mg/m3 TWA
- NIOSH:** 1 mg/m3 TWA
3 mg/m3 STEL
- Mexico** 1 mg/m3 TWA LMPE-PPT
3 mg/m3 STEL [LMPE-CT]

Appropriate Engineering Controls

Provide local exhaust or process enclosure ventilation system. Ensure compliance with applicable exposure limits.

Individual Protection Measures, such as Personal Protective Equipment

Eyes/Face Protection

Wear splash resistant safety goggles with a faceshield. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

Skin Protection

Work clothing sufficient to prevent all skin contact should be worn, such as coveralls and long sleeves.

Glove Recommendations

Wear appropriate chemical resistant gloves. Change gloves when torn, punctured, or contaminated.
Recommended material type: butyl rubber

Respiratory Protection

If ventilation is not sufficient to effectively prevent buildup of mists or vapors, appropriate respiratory protection must be provided.
Individuals at risk to inhalation of dust and vapors must use a respirator which conforms to EN141, with Type P2 filter.
Any powered, air-purifying respirator with a full facepiece and organic vapor and acid gas cartridge(s).

*****Section 9 - PHYSICAL AND CHEMICAL PROPERTIES*****

Physical State:	Liquid	Appearance:	Not available
Color:	Colorless to yellowish	Physical Form:	Liquid
Odor:	Pungent odor	Odor Threshold:	Not available
pH:	Not available	Melting Point:	41 °C
Boiling Point:	213 °C (decomposition)	Flash Point:	No data available
Evaporation Rate:	Not available	Vapor Pressure:	0.04 hPa
Vapor Density (air = 1):	Not available	Density:	1.5-1.7 g/cm ³ 20 °C
Specific Gravity (water = 1):	Not available	Water Solubility:	Miscible in all proportions
Coeff. Water/Oil Dist:	Not available	Viscosity:	Not available
Volatility:	Not available		



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Section 10 - STABILITY AND REACTIVITY

Reactivity

No hazard expected.

Chemical Stability

No data available.

Possibility of Hazardous Reactions

Hazardous polymerization will not occur.

Conditions to Avoid

Avoid heat, flames, sparks and other sources of ignition. May ignite or explode on contact with combustible materials.

Incompatible Materials

alkalis, metals, combustible materials, metal salts, Flammable hydrogen gas can be generated with metals.

Hazardous Decomposition Products

PHOSPHORUS OXIDE

Hazardous Decomposition

Combustion: oxides of phosphorus

Section 11 - TOXICOLOGICAL INFORMATION

Acute Toxicity

CORROSIVE. Inhalation may cause irritation to mucous membranes and upper respiratory tract. Prolonged or repeated exposure may cause tooth erosion and ulcers. Causes severe burns. Eye contact may cause eye damage and blindness. Prolonged or repeated exposure may cause dermatitis and conjunctivitis. Harmful or fatal if swallowed. Causes severe burns. May cause mucous membrane damage, cough, and difficulty breathing.

Component Analysis - LD50/LC50

The components of this material have been reviewed in various sources and the following selected endpoints are published:

Phosphoric acid (7664-38-2)

Oral: Rat LD50: 1530 mg/kg

Dermal: Rabbit LD50: 2740 mg/kg

Inhalation: Rat 1-hr LC50:>850 mg/m³

Information on Likely Routes of Exposure

Inhalation

May cause irritation, cough, and difficulty breathing. Prolonged or repeated contact may cause respiratory system damage.

Ingestion

Skin Contact

May cause irritation, redness, itching and burning. Prolonged or repeated exposure may cause skin damage.

Eye Contact

Causes burns. May cause blindness and eye damage.

Immediate Effects

Harmful if swallowed. May cause respiratory tract irritation. Causes severe skin burns and eye damage.



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Delayed Effects

Causes severe skin burns and eye damage.

Medical Conditions Aggravated by Exposure

No data available.

Irritation/Corrosivity Data

Causes severe skin burns and eye damage. May cause respiratory tract irritation.

Respiratory Sensitization

No information available for the product.

Dermal Sensitization

No information available for the product.

Germ Cell Mutagenicity

No human or animal test data available.

Carcinogenicity

Component Carcinogenicity

None of this product's components are listed by ACGIH, IARC, NTP, DFG or OSHA.

Reproductive Toxicity

No human or animal test data available.

Specific Target Organ Toxicity - Single Exposure

respiratory system

Specific Target Organ Toxicity - Repeated Exposure

No target organs identified.

Aspiration Hazard

No data available.

* * *Section 12 - ECOLOGICAL INFORMATION* * *

Ecotoxicity

96-hr LC50 Fisch: 138 mg/l

72-hr EC50 Algae: 590 mg/l

Component Analysis - Aquatic Toxicity

No LOLI ecotoxicity data are available for this product's components.

Persistence and Degradability

No information available for the product.

Bioaccumulation

No information available for the product.

Mobility

No information available for the product.

Bioconcentration

No information available for the product.

Biodegradation

No information available for the product.



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Section 13 - DISPOSAL CONSIDERATIONS

Disposal Methods

Subject to disposal regulations: U.S. EPA 40 CFR 262. Hazardous Waste Number(s): D002 (Corrosive). Dispose in accordance with all applicable local regulations.

Disposal of Contaminated Packaging

Recycle if possible. Dispose in accordance with all applicable regulations.

Section 14 - TRANSPORT INFORMATION

US DOT Information

Shipping Name: Phosphoric acid solution

UN/NA #: 1805 **Hazard Class:** 8 **Packing Group:** III

Required Label(s): Corrosive

Section 15 - REGULATORY INFORMATION

U.S. Federal Regulations

This material contains one or more of the following chemicals required to be identified under SARA Section 302/304 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), and/or require an OSHA process safety plan.

Phosphoric acid (7664-38-2)

CERCLA: 5000 lb final RQ; 2270 kg final RQ

SARA 311/312

Acute Health: Yes **Chronic Health:** No **Fire:** No **Pressure:** No **Reactive:** No

U.S. State Regulations

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS	CA	MA	MN	NJ	PA
Phosphoric acid	7664-38-2	Yes	Yes	Yes	Yes	Yes

Not regulated under California Proposition 65

Component Analysis - Inventory

Component	CAS	US	CA	EU	AU	PH	JP	KR	CN	NZ
Phosphoric acid	7664-38-2	Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	Yes

Section 16 - OTHER INFORMATION

Summary of Changes

New SDS.

NFPA Ratings: Health: 1 Fire: 0 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

End of sheet