



## PHOSPHORIC ACID SOLUTION 33% SAFETY DATA SHEET

### SECTION 1: IDENTIFICATION

**Product Identifier:**

Phosphoric Acid Solution 33%

**Other means of Identification:** CAS

No. 7664-38-2

**Recommended Use:**

Not Available

**Manufactured for:**

Bio-Cide International, Inc.

2650 Venture Drive

Norman, Oklahoma 73069 Phone:

(405) 329-5556

Fax: (405) 329-2681

**Emergency Telephone Number:**

Chemtrec for transportation emergencies in the United States, Canada, Puerto Rico, and Virgin Islands 1-800-424-9300; All other areas 1-703-527-3887

American Association of Poison Control Centers 1-800-222-1222

### SECTION 2: HAZARD(S) IDENTIFICATION

**Classification in accordance with OSHA 29 CFR 1910.1200 (d):**

Acute Toxicity: Oral (category 4)

Skin corrosion/irritation: (category 1A)

Skin eye damage/eye irritation: (category 1)

**GHS Label elements, including precautionary statements:**

Signal word: **DANGER**



**Hazard Statements:**

Corrosive  
Harmful if swallowed Harmful  
if inhaled  
Causes severe skin burns and eye damage  
May be corrosive to metals

**Precautionary statements:**

Wash thoroughly after handling  
Do not eat, drink or smoke when using this product  
Do not breathe dust or mists.  
Wear protective gloves/eye protection/face protection

**Response statements:**

**IF INHALED:** Remove person to fresh air and keep comfortable for breathing.  
**IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
**IF ON SKIN (or hair):** take off immediately all contaminated clothing. Rinse skin with water/shower.  
**IF SWALLOWED:** Call a POISON CENTER/doctor/if you feel unwell. Rinse mouth. Do **NOT** induce vomiting. Immediately call a POISON CENTER/doctor.

Specific treatment (see this label) Wash contaminated clothing before reuse.

Keep container tightly closed. Store in a well-ventilated place. Store in a dry place. Protect from sunlight. Store locked up.

Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal..

**SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS**

<b>Substance:</b>	Phosphoric Acid	Water
	>=5 - <=95%	>=5 - <=95%
<b>Formula:</b>	H <sub>3</sub> PO <sub>4</sub>	H <sub>2</sub> O
<b>CAS number:</b>	7664-38-2	7732-18-5
<b>EC number:</b>	231-633-2	231-791-2

All concentrations are percent by weight.

**SECTION 4: FIRST-AID MEASURES**

Ingestion: Call a physician or poison control center immediately. Only induce vomiting at the instruction of medical personnel. Never give anything by mouth to an unconscious person.

Inhalation: Move to fresh air. If breathing is difficult, give oxygen. Perform artificial respiration if breathing has stopped. Get medical attention immediately.

Skin Contact: Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

Eye Contact: If in eyes, hold eyes open, flood with water for at least 15 minutes and see a doctor.

## SECTION 5: FIRE-FIGHTING MEASURES

Use fire-extinguishing media appropriate for surrounding materials.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### SPILL OR LEAK PROCEDURE

Absorb spillage with non-combustible, absorbent material. Dike for later disposal. Prevent runoff from entering drains, sewers, or streams.

## SECTION 7: HANDLING AND STORAGE

### HANDLING:

Use personal protective equipment as required. Container must be kept tightly closed. Use only with adequate ventilation. Never add water directly to this product – may cause vigorous reaction/boiling. Always dilute by carefully pouring the product into water.

### PRODUCT STORAGE:

Conditions for safe storage – No data available

## SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical identity	Type	Exposure Limit Values	Source
Phosphoric Acid	TWA	1 mg/m <sup>3</sup>	US.ACGIH Threshold Limit Values (032013)
	STEL	3 mg/m <sup>3</sup>	US.ACGIH Threshold Limit Values (032013)
	REL	1 mg/m <sup>3</sup>	US NIOSH: Pocket Guide to Chemical Hazards (2010)
	STEL	3 mg/m <sup>3</sup>	US NIOSH: Pocket Guide to Chemical Hazards (2010)
	PEL	1 mg/m <sup>3</sup>	US OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) 02 2006)
	STEL	3 mg/m <sup>3</sup>	US OSHA Table Z-1-A (29 CFR 1910.0000) (1989)
	TWA	1 mg/m <sup>3</sup>	US OSHA Table Z-1-A (29 CFR 1910.0000) (1989)
	TWA	1 mg/m <sup>3</sup>	US Tennessee. OELs Occupational Exposure Limits, Table Z1A (06 2008)
	STEL	3 mg/m <sup>3</sup>	US Tennessee. OELs Occupational Exposure Limits, Table Z1A (06 2008)
	ST ESL	10 µg/m <sup>3</sup>	US Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (02 2013)
	AN ESL	1 µg/m <sup>3</sup>	US Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (02 2013)
	TWA PEL	1 mg/m <sup>3</sup>	US California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (02 2012)

	STEL	3 mg/m <sup>3</sup>	US California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (02 2012)
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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

- (a) **Appearance (physical state, color, etc.);** liquid
- (b) **Odor;** No data available
- (c) **Odor threshold;** No data available
- (d) **pH;** 1.5
- (e) **Melting point/freezing point;** 21°C
- (f) **Initial boiling point and boiling range;** 158°C
- (g) **Flash point;** No data available
- (h) **Evaporation rate;** No data available
- (i) **Flammability (solid, gas);** No data available
- (j) **Upper/lower flammability or explosive limits;** No data available
- (k) **Vapor pressure;** No data available
- (l) **Vapor density;** No data available
- (m) **Relative density;** No data available
- (n) **Solubility(ies);** No data available
- (o) **Partition coefficient: n-octanol/water;** No data available
- (p) **Auto-ignition temperature;** No data available
- (q) **Decomposition temperature;** No data available
- (r) **Viscosity;** No data available

## SECTION 10: STABILITY AND REACTIVITY

- (a) **Reactivity;** No data available.
- (b) **Chemical stability;** No data available
- (c) **Possibility of hazardous reactions;** No data available
- (d) **Conditions to avoid;** No data available
- (e) **Incompatible materials;** No data available

## SECTION 11: TOXICOLOGICAL INFORMATION

### Likely routes of exposure:

**Oral** (ingestion): ATEmix(): 1,578.947368 mg/kg

**Dermal:** ATEmix(): 1,578.947368 mg/kg **Inhalation:**

No data available

**Eye contact:** No data available.

**Specified substance:** Phosphoric Acid: LC50 (Mouse): 25.5 mg/m<sup>3</sup> 4 (not assignable)

**Acute Toxicity, Oral:** No data available.

**Acute Toxicity, Dermal:** No data available.

**Irreversible Eye Effects:** No data available. **Reversible**

**Eye Effects:** No data available.

**Respiratory Sensitization:** No data available.

**Skin Sensitization:** No data available.

**Carcinogenicity:** Phosphoric Acid is not classified as a carcinogen by NTP, IARC, or OSHA

## SECTION 12: ECOLOGICAL INFORMATION

### Ecotoxicity:

#### Acute hazards to the aquatic environment.

Fish: No data available

Aquatic invertebrates: No data available

#### Chronic hazards to the aquatic environment:

Fish: No data available

Aquatic invertebrates: No data available

Toxicity to Aquatic Plants: No data available.

#### Persistence and degradability

Biodegradation: No data available

BOD/COD ratio: No data available

#### Bioaccumulative potential

Bioconcentration factor (BCF): No data available

Partition coefficient n-octanol/water (low KOW): No data available

#### Mobility in soil:

Known or predicted distribution to environmental compartments: No data available

## SECTION 13: DISPOSAL CONSIDERATIONS

**Product Disposal:** No data available

**Container Disposal:** No data available

## SECTION 14: TRANSPORT INFORMATION

**DOT UN number:** 1805

**Proper shipping name:** Phosphoric acid solution

**Class:** 8

**Packing group:** III Labeling

**No. :** 8

**Marine Pollutant:** Not regulated

**IATA number:** 1805

**Proper shipping name:** Phosphoric acid solution

**Class:** 8

**Packing group:** III Labeling

**No. :** 8

**Environmental Hazards:** Not regulated

**Other information:**

**Passenger and cargo aircraft:** Allowed Cargo  
**aircraft only:** Allowed

## **SECTION 15: REGULATORY INFORMATION**

**U.S. Federal regulations, US OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):** None present or none present in regulated quantities.

**CERCLA HAZARDOUS SUBSTANCE LIST (40 CFR 302.4):**

Phosphoric Acid reportable quantity: 5000 lbs.

**Superfund amendments and reauthorization act of 1986 (SARA):**

Not listed

**SARA 302 Extremely hazardous substance:**

None present or none present in regulated quantities

**SARA 304 Emergency release notification:**

Phosphoric Acid – 5000 lbs

**SARA 311/312 Hazardous Chemical:**

Phosphoric Acid – threshold Planning Quantity 500 lbs

**SARA 313 (TRI reporting):**

None present or none present in regulated quantities

**Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3):**

Phosphoric Acid – Reportable quantity 5000 lbs

**Clean Air Act (CAA) Section 112 (r) Accidental Release Prevention (40 CFR 68.130):**

None present or none present in regulated quantities

### **US STATE REGULATIONS**

**California, Proposition 65:**

No ingredient regulated by CA Prop 65 present.

**US New Jersey Worker and Community Right-to-know Act:** Listed

**US Massachusetts RTK – Substance List:** Listed

**US Pennsylvania Right to Know Hazardous Substance List:** Listed

**US Rhode Island Right to Know Hazardous Substance List: Listed**

**Inventory Status:**

<b>Australia AICS:</b>	Not in compliance with the inventory
<b>Canada DSL Inventory List:</b>	Not in compliance with the inventory
<b>EU EINECS List:</b>	On or in compliance with the inventory
<b>EU ELINCS List:</b>	Not in compliance with the inventory
<b>Japan (ENCS) List:</b>	Not in compliance with the inventory
<b>EU No longer Polymers List:</b>	Not in compliance with the inventory
<b>China Inv. Existing Chemical Substances:</b>	Not in compliance with the inventory
<b>Korea Existing Chemicals Inv. (KECI):</b>	Not in compliance with the inventory
<b>Canada NDSL Inventory:</b>	Not in compliance with the inventory
<b>Philippines PICCS:</b>	Not in compliance with the inventory
<b>US TSCA Inventory:</b>	On or in compliance with the inventory
<b>New Zealand Inventory or Chemicals:</b>	Not in compliance with the inventory
<b>Japan ISHL Listing:</b>	Not in compliance with the inventory
<b>Japan Pharmacopoeia Listing:</b>	Not in compliance with the inventory

**SECTION 16: OTHER INFORMATION**

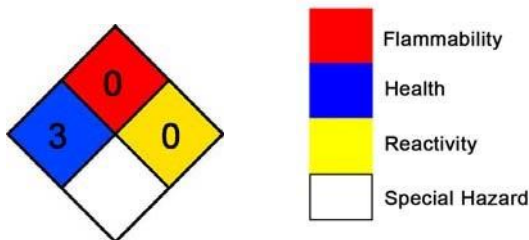
**HMIS Hazard ID**



**Hazard Rating: 0-Minimal; 1- Slight; 2- Moderate; 3- Serious; 4-Severe;**

- Chronic Health effect
- B** Safety Glasses & Gloves

**NFPA Hazard ID:**



**Hazard Rating: 0-Minimal; 1-Slight; 2-Moderate; 3-Serious; 4-Severe**

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Prepared: May 2015