



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

Substance:	Phosphoric Acid	Water
	>=5 - <=95%	>=5 - <=95%
Formula:	H ₃ PO ₄	H ₂ O
CAS number:	7664-38-2	7732-18-5
EC number:	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 ³	US.ACGIH Threshold Limit Values (032013)
	STEL	3 mg/m ³	US.ACGIH Threshold Limit Values (032013)
	REL	1 mg/m ³	US NIOSH: Pocket Guide to Chemical Hazards (2010)
	STEL	3 mg/m ³	US NIOSH: Pocket Guide to Chemical Hazards (2010)
	PEL	1 mg/m ³	US OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) 02 2006)
	STEL	3 mg/m ³	US OSHA Table Z-1-A (29 CFR 1910.0000) (1989)
	TWA	1 mg/m ³	US OSHA Table Z-1-A (29 CFR 1910.0000) (1989)
	TWA	1 mg/m ³	US Tennessee. OELs Occupational Exposure Limits, Table Z1A (06 2008)
	STEL	3 mg/m ³	US Tennessee. OELs Occupational Exposure Limits, Table Z1A (06 2008)
	ST ESL	10 µg/m ³	US Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (02 2013)
	AN ESL	1 µg/m ³	US Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (02 2013)
	TWA PEL	1 mg/m ³	US California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (02 2012)

	STEL	3 mg/m ³	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/m³ 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:

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

SECTION 16: OTHER INFORMATION

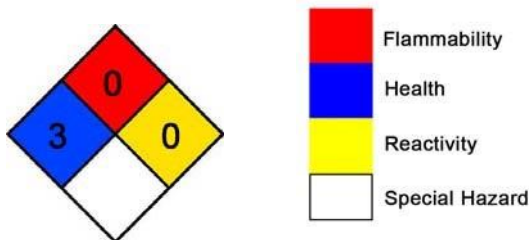
HMIS Hazard ID



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