

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Product code SS-1144 P
Product name 1000 ug/mL Phosphorus
Common Name Phosphorus in Water
Manufacturer, importer, supplier Inorganic Ventures, Inc.
195 Lehigh Avenue, Suite 4
Lakewood, NJ 08701
Web: www.inorganicventures.com
Emergency telephone number 800-424-9300 CHEMTREC (24 hrs)

2. COMPOSITION/INFORMATION ON INGREDIENTS

CAS	Chemical Name	% Weight	ACGIH*	OSHA*
7732-18-5	Water	~95-99.9	N/A	N/A
7664-38-2	Phosphoric acid	~0.1-1	1 mg/m3 TWA	1 mg/m3 TWA

* ACGIH - Occupational Exposure Limits - TWAs

* OSHA - Final PELs - Time Weighted Averages (TWAs)

3. HAZARDS IDENTIFICATION

Emergency Overview

- Final product is not regulated

Eye contact

- Contact with eyes may cause irritation

Ingestion

- Harmful if swallowed

Skin contact

- Substance may cause slight skin irritation

Inhalation

- May cause irritation of respiratory tract

4. FIRST AID MEASURES

General advice

- Show this safety data sheet to the doctor in attendance

Skin contact

- Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes

Eye contact

- Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes
- Keep eye wide open while rinsing
- If eye irritation persists, consult a specialist

Inhalation

- Move to fresh air

Ingestion

- If conscious, drink plenty of water
- Consult a physician

5. FIRE-FIGHTING MEASURES

Flash point	NA
Suitable extinguishing media	<ul style="list-style-type: none">Use extinguishing measures that are appropriate to local circumstances and the surrounding environment
Specific hazards	<ul style="list-style-type: none">None
Specific methods	<ul style="list-style-type: none">Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations
Special protective equipment for firefighters	<ul style="list-style-type: none">As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	<ul style="list-style-type: none">• Ensure adequate ventilation
Environmental precautions	<ul style="list-style-type: none">• Prevent further leakage or spillage if safe to do so• Prevent product from entering drains
Methods for cleaning up	<ul style="list-style-type: none">• Dam up• Pick up and transfer to properly labelled containers• Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container• After cleaning, flush away traces with water

7. HANDLING AND STORAGE

Handling

Technical measures/Precautions	<ul style="list-style-type: none">• Use only in area provided with appropriate exhaust ventilation
Safe handling advice	<ul style="list-style-type: none">• Wear personal protective equipment

Storage

Technical measures/Precautions	<ul style="list-style-type: none">• Keep in properly labelled containers• Store at room temperature in the original container• Keep containers tightly closed in a dry, cool and well-ventilated place
Incompatible products	<ul style="list-style-type: none">• No information available

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Personal protective equipment	
Hand protection	<ul style="list-style-type: none">• impervious gloves
Eye protection	<ul style="list-style-type: none">• tightly fitting safety goggles
Respiratory protection	<ul style="list-style-type: none">• Ensure adequate ventilation
Skin and body protection	<ul style="list-style-type: none">• Chemical resistant apron• Lab coat
Hygiene measures	<ul style="list-style-type: none">• When using, do not eat, drink or smoke• Regular cleaning of equipment, work area and clothing

9. PHYSICAL AND CHEMICAL PROPERTIES

General Information

Form	liquid.
Appearance	clear
Colour	None.
Odour	None.

Important Health Safety and Environmental Information

pH	0 to 2
Boiling point/range	100°C
Flash point	N/A
Vapour pressure	NA.
Water solubility	miscible.

10. STABILITY AND REACTIVITY

Stability	<ul style="list-style-type: none">• Stable under normal conditions• Hazardous polymerisation does not occur
Materials to avoid	<ul style="list-style-type: none">• No information available
Hazardous decomposition products	<ul style="list-style-type: none">• No information available

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Component Information

CAS	Chemical Name	% Weight	LD50/oral/rat =	LD50/dermal/rat =
7732-18-5	Water	99.7	N/A	N/A
7664-38-2	Phosphoric acid	0.3	Inhalation LC50 Rat: >850 mg/m ³ /1H; Oral LD50 Rat: 1530 mg/kg; Dermal LD50 Rabbit: 2740 mg/kg	Inhalation LC50 Rat: >850 mg/m ³ /1H; Oral LD50 Rat: 1530 mg/kg; Dermal LD50 Rabbit: 2740 mg/kg

Product Information

Local effects	Poison
Eye irritation	May cause eye irritation with susceptible persons.
Skin irritation	May cause skin irritation and/or dermatitis.
Inhalation	May cause irritation of respiratory tract.
Ingestion	Harmful if swallowed.

12. ECOLOGICAL INFORMATION

Ecotoxicity effects

Component Information

CAS	Chemical Name	% Weight	EFAD*	EFFSD*	EMD - Ecotoxicity*
7732-18-5	Water	~95-99.9	N/A	N/A	N/A
7664-38-2	Phosphoric acid	~0.1-1	N/A	96 Hr LC50 mosquito fish: 138 mg/L	N/A

* EFAD - Ecotoxicity - Freshwater Algae Data

* EFFSD - Ecotoxicity - Freshwater Fish Species Data

* EMD - Ecotoxicity - Microtox Data

Product Information

Do not allow material to contaminate ground water or sewage system

Other information

13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products	● In accordance with local and national regulations
Contaminated packaging	● Empty containers should be taken for local recycling, recovery or waste disposal

14. TRANSPORT INFORMATION

DOT Final product is not regulated

IATA-DGR Final product is not regulated

15. REGULATORY INFORMATION

U.S. INVENTORIES:

CAS	Chemical Name	% Weight	CPCL*	NJRTK*	CERCLA/SARA*
7732-18-5	Water	~95-99.9	N/A	N/A	N/A
7664-38-2	Phosphoric acid	~0.1-1	N/A	sn 1516	5000 lb final RQ; 2270 kg final RQ

* CPCL - California - Proposition 65 - Carcinogens List

* NJRTK - New Jersey - Department of Health RTK List

* CERCLA/SARA - Hazardous Substances and their Reportable Quantities

INTERNATIONAL INVENTORIES:

CAS	Chemical Name	% Weight	WHMIS*	EINECCS - European Union*
7732-18-5	Water	~95-99.9	Uncontrolled product according to WHMIS classification criteria	231-791-2
7664-38-2	Phosphoric acid	~0.1-1	E	231-633-2

* WHMIS - Canada - WHMIS - Classifications of Substances

* EINECCS - European Union - European inventory of Existing Commercial Chemical Substances (EINECCS)

16. OTHER INFORMATION

The above information is believed to be accurate and represents the best information available to us. It has been compiled from the data presented in various technical publications and our experience and should only be used as a guide for handling this product. It is the user's responsibility to determine the suitability of this information for their particular purposes. We assume that only qualified individuals, trained and familiar with procedures suitable to this product will handle this material. Inorganic Ventures, Inc. assumes no responsibility and shall not be held liable for any damage resulting from misuse of this product.