



# SAFETY DATA SHEET

ProChemOnline.com



## SECTION 1 PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: **Phosphoric Acid**  
PRODUCT NUMBER: 14370  
CAS NUMBER: 7664-38-2  
SYNONYMS: Orthophosphoric Acid  
**MANUFACTURER:**

Prochem, Inc.  
826 Roosevelt Road  
Rockford, IL 61109

PHONE: 815-398-1788  
FAX: 815-398-1810  
TOLL FREE: 800-795-8788

IN CASE OF TRANSPORTATION EMERGENCY CONTACT CHEM-TREC: 1-800-424-9300

## SECTION 2 HAZARDS IDENTIFICATION

### CLASSIFICATION OF SUBSTANCE OR MIXTURE

Pictogram



Signal Word

**Danger**

### Hazard Statements

H302	Harmful if swallowed.
H313	May be harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H330	Fatal if inhaled.

### Precautionary Phrases

P260	Do not breathe dust/fume/gas/mist/vapour/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P284	Wear respiratory protection.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.
P310	Immediately call a POISON CENTER or doctor/physician.

### HMIS CLASSIFICATION:

Health: 3      Fire: 0      Reactivity Hazard: 0      Personal: H

### NFPA RATING:

Health: 3      Flammability: 0      Reactivity Hazard: 0

**EYE CONTACT:** Causes eye irritation.

**SKIN CONTACT:** May be harmful if absorbed through the skin. Causes skin irritation.

## SECTION 2 HAZARDS IDENTIFICATION (Cont.)

**INHALATION:** May be harmful if inhaled. Causes respiratory tract irritation.

**INGESTION:** May be harmful if swallowed

## SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Component	Weight %	CAS #	Formula	Molecular Weight
Phosphoric Acid	85	7664-38-2	H <sub>3</sub> PO <sub>4</sub>	98
Water	Balance	7732-18-5	H <sub>2</sub> O	18

## SECTION 4 FIRST AID MEASURES

**EYE EXPOSURE:** In case of eye contact, rinse with plenty of water and seek medical attention if necessary.

**SKIN EXPOSURE:** Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and wash using soap. Get medical attention if necessary.

**INHALATION:** Remove to fresh air and keep at rest. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention if necessary.

**INGESTION:** Do NOT induce vomiting. Never give anything by mouth to an unconscious person. If conscious, wash out mouth with water. Get medical attention if necessary.

## SECTION 5 FIREFIGHTING MEASURES

**FLASH POINT:** Product is not flammable

**AUTO IGNITION TEMPERATURE:** Not available

**EXPLOSION LIMITS:** Not explosive

**EXTINGUISHING MEDIUM:** Use appropriate media for adjacent fire. Cool containers with water.

**SPECIAL FIRE FIGHTING PROCEDURES:** Wear self-contained, approved breathing apparatus and full protective clothing, including eye protection and boots.

**HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS:** Phosphorous oxides

## SECTION 6 ACCIDENTAL RELEASE MEASURES

**PERSONAL PRECAUTIONS:** Wear all appropriate equipment when using this material. Ensure adequate ventilation.

**ENVIRONMENTAL PRECAUTIONS:** Prevent spillage from entering drains. Any release to the environment may be subject to federal/national or local reporting requirements.

**METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP:** Neutralize spill with sodium bicarbonate or lime. Absorb spill with noncombustible absorbent material, then place in a suitable container for disposal. Clean surfaces thoroughly with water to remove residual contamination. Dispose of all waste and cleanup materials in accordance with regulations.

## SECTION 7 HANDLING AND STORAGE

**PRECAUTIONS FOR SAFE HANDLING:** Wear appropriate personal protective equipment. Use with adequate ventilation. Wash thoroughly after using. Keep container closed when not in use. Avoid formation of aerosols.

**CONDITIONS FOR SAFE STORAGE:** Store in cool, dry, and well-ventilated area. Keep away from incompatible materials.

## SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

### OCCUPATIONAL EXPOSURE CONTROLS:

Component	Exposure Limits	Basis	Entity
Phosphoric Acid	1 mg/m <sup>3</sup>	TLV	ACGIH
	3 mg/m <sup>3</sup>	STEL	ACGIH
	1 mg/m <sup>3</sup>	PEL	OSHA
	1 mg/m <sup>3</sup>	REL	NIOSH
	3 mg/m <sup>3</sup>	STEL	NIOSH
	1000 mg/m <sup>3</sup>	IDLH	OSHA

## SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION (Cont.)

STEL: Short Term Exposure Limit during x minutes.  
IDLH: Immediately Dangerous to Life or Health  
PEL: Permissible Exposure Limit

TLV: Threshold Limit Value over 8 hours of work.  
REL: Recommended Exposure Limit

**EYE PROTECTION:** Wear chemical safety glasses or goggles.

**SKIN PROTECTION:** Wear nitrile or rubber gloves, apron, or lab coat.

**VENTILATION:** Provide local exhaust, preferably mechanical.

**RESPIRATOR:** Use an approved respirator

**ADDITIONAL PROTECTION:** Provide eyewash stations, quick-drench showers and washing facilities accessible to areas of use and handling.

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

**COLOR AND FORM:** Clear liquid

**ODOR:** None

**BOILING POINT:** 158° C

**MELTING POINT:** 21° C

**SPECIFIC GRAVITY:** 1.685 gm/ml

**VAPOR DENSITY:** No data available

**SOLUBILITY:** Soluble

## SECTION 10 STABILITY AND REACTIVITY

**STABILITY:** Stable

**HAZARDOUS POLYMERIZATION:** Will not occur

**CONDITIONS TO AVOID:** Not available

**INCOMPATIBILITY:** Strong bases and powdered metals

**DECOMPOSITION PRODUCTS:** Phosphorous oxides

## SECTION 11 TOXICOLOGICAL DATA

**ACUTE TOXICITY:** LD50 – Rabbit – 2,740 mg/kg. LD50 – Rat – 1,530 mg/kg.

**CARCINOGENIC EFFECTS:** No components of this product present at levels greater than or equal to 0.1% is identified a carcinogen.

**MUTAGENIC EFFECTS:** Not available

**TETRATOGENIC EFFECTS:** Not available

**CHRONIC TOXICITY:** Damage to organs

**RTECS:** TB6300000

To the best of our knowledge the toxicological effects of this compound have not been fully investigated.

## SECTION 12 ECOLOGICAL DATA

No data available

## SECTION 13 DISPOSAL CONSIDERATIONS

Dispose of in according to local, state, and federal regulations.

## **SECTION 14 TRANSPORTATION DATA**

UN1805  
Phosphoric acid solution  
CLASS 8  
PG III

Marine Pollutant: No

## **SECTION 15 REGULATORY INFORMATION**

**TSCA:** Listed in the TSCA inventory  
**DSCL (EEC):** Listed on the DSCL inventory  
**SARA 302/304:** Not Listed  
**SARA 311/312:** Phosphoric Acid  
**SARA (TITLE 313):** Not Listed  
**CALIFORNIA PROP. 65:** Not Listed  
**WHMIS CANADA:** Class E: Corrosive liquid.

## **SECTION 16 OTHER INFORMATION**

**DISCLAIMER:** The information herein is believed to be accurate and reliable as of the date compiled. However, Prochem, Inc. makes no representation, warranty, or guarantee of any kind with respect to the information in this document or any use of the product based on the information.

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