# **SDS #:** 600.10 **Revision Date:** March 25, 2014

# SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

# o-Phosphoric Acid Solution

Flinn Scientific, Inc. P.O. Box 219, Batavia, IL 60510 (800) 452-1261

CHEMTREC Emergency Phone Number: (800) 424-9300

# SECTION 2 — HAZARDS IDENTIFICATION

Hazard class: Skin corrosion or irritation (Category 1). Causes severe skin burns and eye damage (H314).

Industrial exposure to phosphoric acid vapors and mists is listed as a known human carcinogen by IARC (IARC -1).

Signal Word

DANGER

Pictograms					
Rel Arel					

# SECTION 3 — COMPOSITION, INFORMATION ON INGREDIENTS

Component Name	CAS Number	Formula	Formula Weight	Concentration
<i>o</i> -Phosphoric acid	7664-38-2	$H_3PO_4$	98.00	<1%
Water	7732-18-5	$H_2O$	18.00	>99%
Synonym: Orthophosphoric acid solution				

# SECTION 4 — FIRST AID MEASURES

Call a POISON CENTER or physician if you feel unwell.

If inhaled: Remove victim to fresh air in a position comfortable for breathing (P304+P340).

**If in eyes:** Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing (P305+P351+P338). **If on skin:** Immediately remove all contaminated clothing. Rinse skin with water (P303+P361+P353). Wash contaminated clothing before reuse (P363).

If swallowed: Rinse mouth. Do NOT induce vomiting (P301+P330+P331).

# SECTION 5 — FIRE FIGHTING MEASURES

Nonflammable, noncombustible solution. **In case of fire:** Use a tri-class dry chemical fire extinguisher. NFPA Code None established

# SECTION 6 — ACCIDENTAL RELEASE MEASURES

Remove all ignition sources and ventilate area. Contain spill with sand or other inert absorbent material, neutralize with sodium bicarbonate or calcium hydroxide and deposit in sealed bag or container. See Sections 8 and 13 for further information.

## SECTION 7 — HANDLING AND STORAGE

Flinn Suggested Chemical Storage Pattern: Inorganic #9. Store with acids, except nitric acid.

## SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

Wear protective gloves, protective clothing, and eye protection (P280). Wash hands thoroughly after handling (P264). Exposure guidelines: (as phosphoric acid) PEL/TLV 1 mg/m<sup>3</sup>(OSHA/ACGIH)

## SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Colorless liquid. Odorless.

# SECTION 10 — STABILITY AND REACTIVITY

Shelf life: Good, if stored properly.

## SECTION 11 — TOXICOLOGICAL INFORMATION

Acute effects: Harmful liquid, irritant Chronic effects: N.A. Target organs: N.A. ORL-RAT  $LD_{50}$ : 1530 mg/kg as o-Phosphoric acid IHL-RAT  $LC_{50}$ : N.A. SKN-RBT  $LD_{50}$ : 2740 mg/kg as o-Phosphoric acid

N.A. = Not available, not all health aspects of this substance have been fully investigated.

#### SECTION 12 — ECOLOGICAL INFORMATION

Harmful to aquatic life at low concentrations. Toxicity is primarily associated with pH.

## SECTION 13 — DISPOSAL CONSIDERATIONS

Please review all federal, state and local regulations that may apply before proceeding. Flinn Suggested Disposal Method #26b is one option.

### SECTION 14 — TRANSPORT INFORMATION

Shipping name: Phosphoric Acid. Hazard class: 8, Corrosive. UN number: UN1805.

#### N/A = Not applicable

### SECTION 15 — REGULATORY INFORMATION

Not listed.

### SECTION 16 — OTHER INFORMATION

This Safety Data Sheet (SDS) is for guidance and is based upon information and tests believed to be reliable. Flinn Scientific, Inc. makes no guarantee of the accuracy or completeness of the data and shall not be liable for any damages relating thereto. The data is offered solely for your consideration, investigation, and verification. The data should not be confused with local, state, federal or insurance mandates, regulations, or requirements and CONSTITUTE NO WARRANTY. Any use of this data and information must be determined by the science instructor to be in accordance with applicable local, state or federal laws and regulations. The conditions or methods of handling, storage, use and disposal of the product(s) described are beyond the control of Flinn Scientific, Inc. and may be beyond our knowledge. FOR THIS AND OTHER REASONS, WE DO NOT ASSUME RESPONSIBILITY AND EXPRESSLY DISCLAIM LIABILITY FOR LOSS, DAMAGE OR EXPENSE ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE HANDLING, STORAGE, USE OR DISPOSAL OF THIS PRODUCT(S).

Consult your copy of the *Flinn Science Catalog/Reference Manual* for additional information about laboratory chemicals. **Revision Date:** March 25, 2014

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