

# SAFETY DATA SHEET

## SECTION 1 - COMPANY AND PRODUCT IDENTIFICATION

### PRODUCT

**Product Name:** PHOSPHORIC ACID 35% - 95%  
**Control Number:** 00019  
**Product Description:** Acid Solution

### COMPANY IDENTIFICATION

**Supplier:** Chemical Distribution Solutions  
1125 Oak St. Ste. 303  
Conway, AR 72032

**24 Hour Emergency Telephone:** (800) 424-9300 CHEMTREC  
**General Information:** (501) 978-1111

## SECTION 2- HAZARDS IDENTIFICATION

### GHS Classification:

#### [ Health ]

Serious eye damage (Category 1)  
Skin corrosion (Category 1B)

#### [ Environmental ]

Acute Aquatic Toxicity (Category 2)

#### [ Physical ]

Corrosive to metals (Category 1)

### GHS Label elements, including precautionary statements

#### Pictograms



**Signal Word:** Danger

#### Hazard statement(s)

H290 May be corrosive to metals.  
H314 Causes severe skin burns and eye damage.

#### Precautionary statement(s)

P234 Keep only in original container.  
P264 Wash skin thoroughly after handling.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.  
P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.  
P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.  
P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove  
P310 Immediately call a POISON CENTER or doctor/ physician.  
P363 Wash contaminated clothing before reuse.  
P390 Absorb spillage to prevent material damage.  
P405 Store locked up.  
P406 Store in corrosive resistant stainless steel container with a resistant inner liner.  
P501 Dispose of contents/ container to an approved waste disposal facility.

## SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS Number	%WT
Phosphoric Acid	7664-38-2	35-95

## SECTION 4 - FIRST AID MEASURES

### FIRST AID PROCEDURES:

**Eye Contact:** In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get immediate medical attention.

**Skin Contact:** Remove contaminated clothing. Wash with soap and water. Cover the irritated skin with an emollient. Get immediate medical attention.

**Inhalation:** If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention if symptoms appear.

**Ingestion:** Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get immediate medical attention.

## SECTION 5 - FIRE FIGHTING MEASURES

**Suitable Extinguishing media:** Substance is non-combustible; use agent most appropriate to extinguish surrounding fire.

**Hazardous combustion products:** Oxides of phosphorus.

**Fire Fighting Procedures:** As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

**Unusual Fire and Explosion Hazards:** Containers can build up pressure if exposed to heat and/or fire. Use water spray to keep fire-exposed containers cool. Containers may explode in the heat of a fire.

## SECTION 6 - ACCIDENTAL RELEASE and DISPOSAL MEASURES

**Spills:** Evacuate all non-essential personnel from the spill area. Provide adequate ventilation. Suitable protective clothing should be worn. Shut off or plug source of spill. Small spills: absorb on inert media and collect into suitable container. Large Spills: Dike spill area to contain liquid. Salvage as much re-useable liquid as possible into a suitable container. Avoid contaminating ground and surface water.

## SECTION 7 - STORAGE AND HANDLING

**Handling:** Do not get in eyes, on skin or on clothing. Do not breathe vapors or mists. Keep container closed and tightly sealed when not in use. Use good hygiene practices. For precautions see section 2.

**Storage:** Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

## SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION

**Engineering Controls:** Provide explosion-proof ventilation or other engineering controls to keep the airborne concentrations of vapor or mists below the applicable workplace exposure limits indicated below.

**Exposure Limits:** Phosphoric Acid 1 mg/m<sup>3</sup> ACGIH; 1 mg/m<sup>3</sup> OSHA

### Personal Protective Equipment (PPE):

**Eyes:** Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133. Tightly fitting safety goggles. Faceshield (8-inch minimum).

### Skin protection

Handle with gloves. Use proper glove removal technique to avoid skin contact with this product. Dispose of contaminated gloves after use. Wash and dry hands.

**Clothing:** Selection of protective clothing depends on work conditions, potential exposure conditions and may include gloves, boots, suits and other protective items.

**Respirators:** Where adequate ventilation is not available an approved respirator must be worn. Respirator selection, use and maintenance should be in accordance with the requirements of OSHA Respiratory Protection Standard, 29 CFR 1920.134. In confined areas, use a self-contained breathing apparatus.

**Other Equipment:** Eye wash station and flood shower in close proximity to use are advised.

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## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

<b>Flash Point:</b> °F	35% N/A	95% N/A	<b>Flammability Limits:</b>	35% not flammable	95% not flammable
<b>Autoignition Temperature:</b>	No available data		<b>Specific Gravity:</b>	1.33	1.69
<b>Boiling Point:</b> °F	>212	>212	<b>Volatile %:</b>	No available data	
<b>Melting Point:</b>	No available data		<b>Evaporation Rate (Water):</b>	No available data	
<b>Vapor Pressure:</b> mmHg	No available data		<b>pH:</b>	<2.5	<2.5
<b>Vapor Density (Air-1):</b>	No available data		<b>Solubility in Water:</b>	Complete	Complete
<b>Appearance/ Odor (each):</b>	Clear liquid with no appreciable odor				

## SECTION 10 - STABILITY AND REACTIVITY

**Chemical Stability:** Stable under normal use and temperature conditions.  
**Conditions to Avoid:** Keep away from heat, flame and other potential ignition sources.  
**Incompatible materials:** Strong bases, powdered metals.  
**Decomposition Products:** When combusted, oxides of phosphorous.

## SECTION 11 - TOXICOLOGICAL INFORMATION

### Signs and Symptoms of Overexposure:

**Skin:** Contact can cause redness and irritation. Severity depends on the amount and duration of exposure.

**Eyes:** Vapors are irritating to the eyes. Liquid contact will cause stinging and tearing.

**Inhalation:** Excessive inhalation of high concentrations may be harmful. Mist or vapor can irritate the throat and lungs. Breathing this material may cause central nervous system depression.

**Ingestion:** If swallowed this material may irritate the mucous membranes of the mouth throat and esophagus. Aspiration of this material into the lungs may result in damage or death.

### Acute oral toxicity:

Phosphoric Acid: No Published Data

### Acute dermal toxicity:

Phosphoric Acid: No Published Data

### Acute Inhalation toxicity:

Phosphoric Acid: No Published Data

## SECTION 12 - ECOLOGICAL INFORMATION

**Aquatic Toxicity:** No Published Data

**Bio-accumulative potential:** No Published Data

**Mobility:** Accidental spillage may lead to penetration in the soil and contamination of groundwater.

## SECTION 13 - DISPOSAL CONSIDERATIONS

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

## SECTION 14 - TRANSPORTATION

### U.S. DEPARTMENT OF TRANSPORTATION (Road or Rail):

**Proper Shipping Name:** Phosphoric Acid Solution

**Hazard Class:** 8

**UN Number:** 1805

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Packaging Group: 3

## SECTION 15 - REGULATORY INFORMATION

### US FEDERAL REGULATIONS

#### Comprehensive Environmental Response and Liability Act (CERCLA)

**SARA 302:** No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302. The reportable quantity (RQ) for this material is 5500 pounds. If appropriate, immediately report to the National Response Center (800/424-8802) as required by U.S .Federal Law. Also contact appropriate state and local regulatory agencies.

**Toxic Substance Control Act (TSCA):** All components of this product are listed on the TSCA inventory list.

#### SARA Section 311/312 (40 CFR 370) Hazard Categories:

Immediate (Acute) Health Hazard.  
Delayed (Chronic) Health Hazard,

**SARA Section 313 (40 CFR 372) Hazard Categories:** This product contains the following toxic chemical subject to reporting requirements,

**Clean Water Act:** This product contains Phosphoric Acid a chemical that are listed under the CWA.

**Clean Air Act:** This product contains no chemicals that are listed under the CAA.

**California Prop 65:** This product contains no chemicals known by the State of California to cause cancer, birth defects or other reproductive harm.

## SECTION 16 - OTHER INFORMATION

**SDS Revision Date:** August 2014

**National Fire Protection Association (NFPA) Ratings:** This information is intended solely for the use of individuals trained in the NFPA system.

**Health: 3**

**Flammability: 0**

**Reactivity: 0**

The data in this Safety Data Sheet relates to the specific material designated and does not relate to its use in combination with any other material or process. The data contained is believed to be correct. However, since conditions of use are outside our control it should not be taken as warranty or representation for which Chemical Distribution Solutions assumes legal responsibility. This information is provided solely for your consideration, investigation, and verification.