

# SAFETY DATA SHEET

Product Name : Basic 472L

Date Issued : July 12, 2019

## SECTION 1 : PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** Basic 472L  
**Formula :** Multi-component mixture

**Chemical Synonym / C# :** c472  
**Chemical Family:** Acidic Detergent

**Supplier :** Americhem International, 412 East 6th Avenue, Altoona, Pa. 16602  
**Information Telephone :** 800-262-4360 **Emergency Telephone :** 607-529-3218

## SECTION 2 : HAZARD IDENTIFICATION

**Form :** Liquid **Color :** Clear, straw yellow

**Emergency Overview :** Danger! Causes eye and skin burns. May be harmful if swallowed. Read the entire SDS for a more thorough evaluation of the hazards.

**OSHA Hazard Communication Standard :** This product has been evaluated and classified as defined by OSHA Hazard Communication Standard, 29CFR 1910.1200.

### **GHS Classification :**

- Corrosive to Metals (Category 1)
- Skin corrosion (Category 1B)
- Serious eye damage / eye irritation (category 1)

**Signal Word :** Danger



**GHS Hazard Pictograms :**

Corrosion

### **Hazard Statements :**

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

### **Precautionary Statements :**

- P260: Do not breathe dust / fume / gas / mist / vapors / spray.
- P280: Wear protective gloves / protective clothing / eye protection / face protection.
- P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.
- P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- P363 - Wash contaminated clothing before reuse.
- P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P310: Immediately call a POISON CENTER or doctor / physician.
- P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P406 : Store in corrosive resistant/ container with a resistant inner liner.
- P405 : Store locked up.
- P501: Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

### **Other hazards which do not result in classification :**

None known. See Section 11 for Potential Health Hazards

# SAFETY DATA SHEET

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## SECTION 3 : COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Ingredient(s)	CAS #	% (w/w)
Phosphoric Acid	7664-38-2	1 - 5
Monosodium Phosphate	7558-80-7	10 - 20

Unlisted components are considered non-hazardous as per 29CFR1910.1200g2C. See section 15 for specific state right-to-know information if applicable.

## SECTION 4 : FIRST AID MEASURES

### **First Aid Measures for Phosphoric Acid :**

**Eye or Skin Contact:** Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. If easy to do, remove any contact lenses. Get medical attention. Wash clothing and thoroughly clean shoes before reuse.

**Inhalation:** If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Remove material from eyes, skin, and clothing.

**Ingestion:** If swallowed, do not induce vomiting. Offer a glass of water to drink. Get medical attention. Contact a Poison Control Center. Never give anything by mouth to an unconscious person.

**Notes to Physician:** All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

## SECTION 5 : FIRE FIGHTING MEASURES

**Extinguishing Media:** Not combustible. Use extinguishing media suitable for surrounding fire.

**Fire Fighting Procedures:** Use caution when fighting any fire. Adequate respiratory protection is essential.

**Unusual Fire and Explosion Hazards:** May react with metals to liberate hydrogen, a flammable gas.

## SECTION 6 : ACCIDENTAL RELEASE MEASURES

**Personal precautions :** Use suitable protective equipment (See Section 8 : "Exposure controls / personal protection").

**Steps to be taken in case material is released or spilled:** Contain large spills with dikes and transfer the material to appropriate containers for reclamation or disposal. Absorb remaining material or small spills with an inert material and then place in a chemical waste container.

**Deactivating Chemicals:** Neutralize washings with a base such as soda ash or lime. Flush residual spill area with large amounts of water.

# SAFETY DATA SHEET

Product Name : Basic 472L

Date Issued : July 12, 2019

## SECTION 7 : HANDLING AND STORAGE

**Handling:** Do not get in eyes, on skin, or on clothing. Avoid breathing mist or vapor. Do not taste or swallow. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling. Emptied container retains vapor and product residue. Observe all labeled safeguards until container is cleaned, reconditioned or destroyed.

**Storage Requirements:** Store in plastic, rubber-lined, or 316 stainless steel tanks designed for phosphoric acid. Store drums away from heat and out of direct sunlight.

## SECTION 8 : EXPOSURE CONTROLS / PERSONAL PROTECTION

### Exposure Guidelines :

Hazardous Ingredient	ACGIH TLV (mg/m3) TWA	ACGIH TLV (mg/m3) STEL
Phosphoric Acid	1	3
Monosodium Phosphate	-	-

### Engineering measures :

**Ventilation / Local Exhaust :** Provide natural or mechanical ventilation to minimize exposure. The use of local mechanical exhaust ventilation is preferred at sources of air contamination such as open process equipment.

**Ventilation / Mechanical Recommendations:** Consult NFPA Standard 91 for design of exhaust systems.

### Personal protective equipment :

**Respiratory Protection:** Avoid breathing vapor or mist. Use NIOSH/MSHA approved respiratory protection equipment (full facepiece recommended) when airborne exposure limits are exceeded. If used, full facepiece replaces the need for face shield and/or chemical goggles. Consult the respirator manufacturer to determine the appropriate type of equipment for a given application. Observe respirator use limitations specified by NIOSH/MSHA or the manufacturer. Respiratory protection programs must comply with 29 CFR1910.134.

**Skin Protection:** Wear appropriate protective clothing and chemical resistant gloves to prevent skin contact. Consult the glove/clothing manufacturer to determine the appropriate type glove/clothing for a given application. Wear chemical goggles, a face shield, and chemical resistant clothing when splashing is likely. Wash immediately if skin is contaminated. Remove contaminated clothing promptly and launder before reuse. Clean protective equipment before reuse. Provide a safety shower at any location where skin contact can occur. Wash thoroughly after handling.

**Eye Protection:** Where there is potential for eye contact, wear goggles and have eye flushing equipment immediately available.

**Other Protective Equipment:** Vinyl apron (optional).

# SAFETY DATA SHEET

Product Name : Basic 472L

Date Issued : July 12, 2019

## SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

**Appearance / Odor:** Clear straw yellow liquid, odor nil.

**Water Solubility:** complete

**pH (1%):** 3.5 - 4.5

**Specific Gravity:** 1.12

**Boiling Point (°F) :** 212+

**Evaporation Rate(water=1):** N/A

**% Volatile:** N/A

**Vapor Density(air=1) :** N/A

**Vapor Pressure(mmHg):** N/A

**Flash Point :** None

**Flash Point Method Used:** N/A

**Flammable Limits:** LEL = N/A UEL = N/A

## SECTION 10 : STABILITY AND REACTIVITY

**Hazardous Decomposition Products:** Oxides of Phosphorus.

**Chemical Stability:** Product is stable under normal conditions of storage and handling.

**Materials to Avoid:** Avoid contact with metals which may liberate flammable hydrogen gas. Avoid contact with materials such as sulfides and sulfites which could release toxic gasses. Be cautious in mixing with strong bases because high heat of reaction can generate steam.

**Hazardous Polymerization:** Will not occur.

## SECTION 11 : TOXICOLOGICAL INFORMATION

**Potential Health Effects ( as Phosphoric Acid):**

### **Inhalation**

**Acute (Immediate) :** Under normal conditions of use, no health effects are expected.

**Chronic (Delayed) :** Repeated or prolonged exposure to corrosive fumes may cause bronchial irritation with chronic cough.

### **Skin**

**Acute (Immediate) :** Causes severe skin burns and eye damage.

**Chronic (Delayed) :** Repeated or prolonged exposure to corrosive materials will cause dermatitis.

### **Eye**

**Acute (Immediate) :** Corrosive. Can cause permanent damage to the cornea, blindness.

**Chronic (Delayed) :** Repeated or prolonged exposure to corrosive materials or fumes may cause conjunctivitis.

### **Ingestion**

**Acute (Immediate) :** Causes corrosion, burns to mouth and esophagus, abdominal pain, chest pain, nausea, vomiting, diarrhea, seizures. Aspiration of the swallowed or vomited product can cause severe pulmonary complications.

**Chronic (Delayed) :** Repeated or prolonged exposure to corrosive materials or fumes may cause gastrointestinal disturbances.

**Toxicological Data (as Phosphoric Acid) :**

### **Acute Toxicity/Effects**

Oral LD50 rat = 1530 mg/kg

Dermal LD50 rabbit = 2730 mg/kg

Inhalation LC50 rat (mg/l, 1hr) = > 850mg/m3

**Skin corrosion/irritation :** Causes severe skin burns and eye damage. pH: 1 – 1.5

**Serious eye damage/eye irritation :** Causes serious eye damage. pH: 1 – 1.5

**Respiratory sensitization :** Data lacking

**Skin sensitization :** Data lacking

**Germ cell mutagenicity :** Classification criteria not met

**Carcinogenicity:** Classification criteria not met

# SAFETY DATA SHEET

Product Name : Basic 472L

Date Issued : July 12, 2019

## Toxicological Data (as Phosphoric Acid), *continued* :

**Reproductive toxicity** : Classification criteria not met

**Specific target organ toxicity - single exposure** : Data lacking

**Specific target organ toxicity - repeated exposure** : Data lacking

**Aspiration hazard** : Not relevant

**Chronic effects** : This material is an acid. The primary effects and toxicity of this material are due to its corrosive nature.

## SECTION 12 : ECOLOGICAL INFORMATION

### Ecological Information (as Phosphoric Acid) :

#### Ecotoxicity :

**EPA Ecological Toxicity rating** : High

**Acute Toxicity to Fish: (L. *macrochirus* (bluegill sunfish)) 96-hr static: LC50 = pH 3.0-3.5.**

**Chronic Toxicity to Fish: Mosquito fish: LC50 = 138 mg/L; 96 hours**

**Acute Toxicity to Aquatic Invertebrates: (*Daphnia magna*) 12-hr static: EC50 = pH 4.6; (*Daphnia pulex*) 12-hr static: EC50 = pH 4.1; (*Gammarus pulex*) 12-hr static: LC50 = pH 3.4.**

**Chronic Toxicity to Aquatic Invertebrates:** No data available

**Acute Toxicity to Aquatic Plants:** Dangerous to aquatic plants at high concentrations.

**Toxicity to Bacteria:** (Activated sludge): EC50 = pH 2.55.

**Toxicity to Soil Dwelling Organisms:** No data available

**Toxicity to Terrestrial Plants:** (Peas, beans, beets, rapeseed and weeds) Sprayed with 15-20% solution of H3PO4: Foliage was destroyed on all plants.

#### Environmental Fate:

**Stability in Water:** Ionic dissociation in water.

**Stability in Soil:** Dissolves some soil material (carbonates).

**Transport and Distribution:** Under acidic soil conditions, sparsely soluble phosphates tend to solubilize and may migrate to water.

**Toxicity:** Inorganic phosphates have the potential to increase the growth of freshwater algae, whose eventual death will reduce the available oxygen for aquatic life.

#### Degradation Products:

**Biodegradation:** Under anaerobic conditions, microorganisms may degrade the product to phosphine.

**Photodegradation:** No data available

## SECTION 13 : DISPOSAL CONSIDERATIONS

**Waste Disposal Method:** Recycle, recovery and reuse of materials, where permitted, is encouraged as an alternate to disposal as a waste. Hazardous waste classification under federal regulations (40 CFR Part 261 et seq) is dependent upon whether a material is a RCRA listed hazardous waste or has any of the four RCRA hazardous waste characteristics. Refer to 40 CFR Part 261.33 to determine if a given material to be disposed of is a RCRA listed hazardous waste. RCRA Hazardous Waste Characteristics: There are four characteristics defined in 40 CFR Section 261.21-61.24: *Ignitability, Corrosivity, Reactivity, and Toxicity*. To determine Ignitability, see Section 9 of this SDS (flash point). For Corrosivity, see Sections 9 and 14 (pH and DOT corrosivity). For Reactivity, see Section 10 (incompatible materials). For Toxicity, see Section 2 (composition). Federal regulations are subject to change. State and local requirements, which may differ from or be more stringent than the federal regulations, may also apply to the classification of the material if it is to be disposed.

**Is the unused product a RCRA hazardous waste (40CFR261.33) if discarded? No**

**If yes, the RCRA ID number is : N/A**

# SAFETY DATA SHEET

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## SECTION 14 : TRANSPORTATION INFORMATION

Transportation Emergency Telephone Number: 3E 24 hour number : (866)302-6855\*

\*Please refer to c# referenced in section 1 of this sds.

UN Number / DOT Proper Shipping Name / DOT Hazard Class /Packing Group / DOT Label & other information:

UN3264, CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.  
(containing phosphoric acid), 8, PGIII, (CORROSIVE, ERG#154)

## SECTION 15 : REGULATORY INFORMATION

### US FEDERAL REGULATIONS :

**TSCA (Toxic Substances Control Act) Status :** TSCA (United States) The intentional ingredients of this product are listed.

**CERCLA RQ - 40 CFR 302.4(a) :** "Reportable Quantities" (RQs) and/or "Threshold Planning Quantities" (TPQs) exist for the following ingredients.

<u>Component</u>	<u>RQ (lbs)</u>
Phosphoric Acid	5000

Spills or releases resulting in the loss of any ingredient at or above its RQ requires immediate notification to the National Response Center (800) 424-8802 and to your Local Emergency Planning Committee.

**SARA 302 Components - 40 CFR 355 Appendix A:** none

**SARA 311/312 Classification - 40 CFR 370.2 :**  
(as Phosphoric Acid) : Acute Health Hazard

**SARA 313 Components - 40 CFR 372.65:**

<u>Section 313 Component(s)</u>	<u>CAS #</u>	<u>%</u>
Phosphoric Acid	7664-38-2	1 - 5

### INTERNATIONAL REGULATIONS :

**Inventory Status (as Phosphoric Acid):** None known.

### STATE REGULATIONS :

**STATE RIGHT-TO-KNOW :** None known. Information on ingredients found in Section 3.

# SAFETY DATA SHEET

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## **SECTION 16 : OTHER INFORMATION**

**NFPA Rating :** HEALTH: 2 FLAMMABILITY: 0 REACTIVITY: 0  
NFPA hazard degree designation 704: 4 = extreme, 3 = high, 2 = moderate, 1 = slight, 0 = none.

**Revision Date :** 6/1/2018

*Information and data compiled to compose this SDS is correct to the best of our knowledge as of the printed date, and is offered solely for your consideration, investigation, and verification.*