

For Compliance with OSHA 29 CFR 1910.1200 and ANSI Z400.1-1998

Section 1: Identification

Product Name Phosphoric Acid NF 85%

Commercial NameNot available.Product UseNot available.Restrictions On UseNot available.

Product Code 50-1303

Company PCCA In case of emergency contact:

9901 South Wilcrest Houston, TX 77099 Phone: 1-800-331-2498 Fax: 1-800-874-5760 CHEMTREC (24hr) 1-800-424-9300

Section 2: Hazard(s) Identification

OSHA Haz Com: Corrosive to Metals - Category 1 Acute toxicity (Oral) Category 4 Skin Corrosion/Irritation Category 1B

CFR 1910.1200 Serious Eye Damage/Eye Irritation Category 1

Signal Word DANGER

Hazard Statement(s) May be corrosive to metals. Harmful if swallowed. May be harmful in contact with skin. Causes severe skin

burns and eye damage.

Pictogram(s) or Symbol(s)



Precautionary Statement(s):

Prevention Keep only in original packaging. Do not breathe dust/fume/mist/vapors. Do not eat, drink or smoke

when using this product. Use only outdoors or in a well-ventilated area. Wear protective

gloves/protective clothing/eye protection/face protection.

Response IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER/doctor if you feel

unwell. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. Wash contaminated clothing before reuse. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Absorb spillage to prevent material damage.

Storage Store in a well-ventilated place. Keep container tightly closed. Store locked up. Store in a

corrosion-resistant container with a resistant inner liner

Disposal Dispose of contents/container to an appropriate treatment and disposal facility in accordance with

applicable laws and regulations, and product characteristics at time of disposal.

Section 3: Composition/Information on Ingredients

Substance/Mixture Mixture

Components Phosphoric Acid, Water

% By Weight Phosphoric Acid:85-88%, Water:12-15%

CAS# 7664-38-2 (Mixture).

Molecular Weight Not applicable.

Chemical Formula Not available.

Synonym(s) *Phosphoric Acid 85%* Phosphoric Acid* Orthophosphoric acid*

Mixtures

Name	CAS#	% by Weight	TLV/PEL	LC50/LD50
Phosphoric Acid	7664-38-2	85-88	TWA: 1 STEL: 3 (mg/m3).	ORAL (LD50): Acute: 1530 mg/kg [Rat]. DERMAL (LD50): Acute: 2740 mg/kg
			, ,	[Rabbit]. DUST (LC50): Acute: >850 mg/m3 1 hours [Rat].
Water	7732-18-5	12-15	N/A	N/A

(Revision Date 3/25) Page 1 of 6



For Compliance with OSHA 29 CFR 1910.1200 and ANSI Z400.1-1998

Section 4: First-Aid Measures

Inhalation Move to fresh air. Call a physician or poison control center immediately. Apply artificial respiration if victim is

not breathing If breathing is difficult, give oxygen.

Skin Contact Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and

shoes. Call a physician or poison control center immediately. Wash contaminated clothing before reuse.

Destroy or thoroughly clean contaminated shoes.

Eye Contact Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Call a

physician or poison control center immediately. In case of irritation from airborne exposure, move to fresh air.

Get medical attention immediately

Ingestion Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable

laws and regulations, and product characteristics at time of disposal.

Symptoms/Effects

Acute Causes severe skin and eye burns. Causes digestive tract burns.

Delayed Causes severe skin and eye burns. Causes digestive tract burns.

Immediate Medical Attention

Treat symptomatically. Symptoms may be delayed.

Section 5: Fire-Fighting Measures

Suitable Extinguishing Media

The product is non-combustible. Use fire-extinguishing media appropriate for surrounding materials

Unsuitable Extinguishing Media

Not available.

Products of Combustion

Not available.

Firefighters Special Equipment and Precautions

Product is highly acidic. Wear protective gear if spilled during fire fighting. Not combustible, but if involved in a fire decomposes to produce toxic gases. Move containers from fire area if you can do so without risk. Use water spray to keep fire-exposed containers cool. Cool containers exposed to flames with water until well after the fire is out. Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Product is highly acidic. Wear protective gear if spilled during fire fighting.

Section 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures: See Section 8 of the SDS for Personal Protective Equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away. Keep upwind. Ventilate closed spaces before entering them. Methods and material for containment and cleaning up: Neutralize with lime or soda ash. Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Clean surface thoroughly to remove residual contamination. Dike far ahead of larger spill for later recovery and disposal. Notification Procedures: Inform authorities if large amounts are involved. Environmental Precautions: Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so.

Section 7: Handling and Storage

Precautions for safe handling: Do not get in eyes, on skin, on clothing. Do not taste or swallow. Wash thoroughly after handling. Do not eat, drink or smoke when using the product. Use caution when adding this material to water. Add material slowly when mixing with water. Do not add water to the material; instead, add the material to the water. Conditions for safe storage, including any incompatibilities: Do not store in metal containers. Keep container tightly closed. Store in a well-ventilated place.

Section 8: Exposure Controls/Personal Protection

(Revision Date 3/25) Page 2 of 6



For Compliance with OSHA 29 CFR 1910.1200 and ANSI Z400.1-1998

Exposure Limits

Phosphoric acid TWA 1 mg/m3 US. ACGIH Threshold Limit Values (2011) STEL 3 mg/m3 US. ACGIH Threshold Limit Values (2011) REL 1 mg/m3 US. NIOSH: Pocket Guide to Chemical Hazards (2010) STEL 3 mg/m3 US. NIOSH: Pocket Guide to Chemical Hazards (2010) PEL 1 mg/m3 US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006) TWA 1 mg/m3 US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989) STEL 3 mg/m3 US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989) TWA 1 mg/m3 US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008) TWA PEL 1 mg/m3 US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (08 2010) STEL 3 mg/m3 US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (08 2010) ST ESL Health 10 μ g/m3 US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (06 2018) AN ESL Health 1 μ g/m3 US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (06 2018) STEL 3 mg/m3 US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (01 2019)

Engineering Controls
Personal Protection

Not available.

General information: Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. An eye wash and safety shower must be available in the immediate work area. Eye/face protection: Wear safety glasses with side shields (or goggles) and a face shield. Skin Protection Hand Protection: Chemical resistant gloves. Other: Wear suitable protective clothing and gloves. Respiratory Protection: In case of inadequate ventilation use suitable respirator. Respirator type: Chemical respirator with acid gas cartridge. Hygiene measures: Provide eyewash station and safety shower. Observe good industrial hygiene practices. Wash hands before breaks and immediately after handling the product. Wash contaminated clothing before reuse. Avoid contact with eyes. Avoid contact with skin.

(Revision Date 3/25) Page 3 of 6



For Compliance with OSHA 29 CFR 1910.1200 and ANSI Z400.1-1998

Section 9: Physical and Chemical Properties

Appearance Liquid. Clear. Colorless.

Odor Odorless.
Odor Threshold Not available

Melting Point 21.1 °C pH 1.5 (3.27 g/l, 20 °C)

Freezing Point Not available **Vapor Pressure** 0.3 kPa 158 °C Not available. **Boiling Point/Range** Vapor Density Not available. Not available. **Decomposition temperature Viscosity Partition Coefficient:** Not available. **Evaporation Rate** Not available.

n-octanol/water

Flash Point Not available. Autoignition temperature Not applicable

Flammability

This product is not flammable
Flammability or Explosive Limits:

Lower Not available

Upper Not available

Solubility(ies) Miscible

Other Density: 1.69 - 1.71 g/ml (20 °C) Relative density: 1.69 - 1.71 (20 °C)

Section 10: Stability and Reactivity

Reactivity No dangerous reaction known under conditions of normal use.

Chemical StabilityMaterial is stable under normal conditions.Hazardous PolymerizationHazardous polymerization does not occur.Conditions to AvoidContact with incompatible materials.

Incompatible Materials Strong alkalis. Strong reducing agents. Strong oxidizing agents.

Hazardous Decomposition Products oxides of phosphorus

Section 11: Toxicological Information

RTECS Not available.

Acute Toxicity

Oral Product: ATEmix (Rat): 1,750 mg/kg Dermal Product: ATEmix (Rabbit) 3,044.44 mg/kg Inhalation Product: No data available. Specified substance(s): Phosphoric acid LC 50 (Guinea pig, Mouse, Rabbit, Rat, 1 h): 193 - 1,689 mg/m3

Skin Corrosion/Irritation

Causes severe skin burns

Serious Eye Damage/Irritation

Causes serious eye damage.

Respiratory or Skin Sensitization

Not a skin nor a respiratory sensitizer.

Germ Cell Mutagenicity

No information

Carcinogenicity

Not listed

Reproductive Toxicity

No information

Routes of Entry

Inhalation. Skin. Eye. Ingestion.

Symptoms Related to Exposure

Not available

(Revision Date 3/25) Page 4 of 6



For Compliance with OSHA 29 CFR 1910.1200 and ANSI Z400.1-1998

Potential Health Effects

Not available

Target Organ(s) Not available.

Section 12: Ecological Information

Ecotoxicity

Not available

Persistance and Degradability

Expected to be readily biodegradable.

Bioaccumulative Potential

Not available

Mobility in Soil

The product is water soluble and may spread in water systems.

Other Adverse Effects

The product may affect the acidity (pH-factor) in water with risk of harmful effects to aquatic organisms.

Section 13: Disposal Considerations

Waste Disposal

Discharge, treatment, or disposal may be subject to national, state, or local laws.

Disposal of Container

Since emptied containers retain product residue, follow label warnings even after container is emptied.

Other Considerations

Not available

Section 14: Transport Information

DOT Classification

DOT UN Number: UN 1805 UN Proper Shipping Name: Phosphoric acid solution Transport Hazard Class(es) Class: 8 Label(s): 8 Packing Group: III Marine Pollutant: No Special precautions for user: Keep away from alkalis. IMDG UN Number: UN 1805 UN Proper Shipping Name: PHOSPHORIC ACID SOLUTION Transport Hazard Class(es) Class: 8 Label(s): 8 EmS No.: F-A, S-B Packing Group: III Marine Pollutant: No Special precautions for user: Keep away from alkalis. IATA UN Number: UN 1805 Proper Shipping Name: Phosphoric acid, solution Transport Hazard Class(es): Class: 8 Label(s): 8 Packing Group: III Marine Pollutant: No Special precautions for user: Keep away from alkalis.

Section 15: Regulatory Information

Regulations

US Federal Regulations TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D) None present or none present in regulated quantities. US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) None present or none present in regulated quantities. CERCLA Hazardous Substance List (40 CFR 302.4): Chemical Identity Reportable quantity Phosphoric acid 5000 lbs. Superfund Amendments and Reauthorization Act of 1986 (SARA) Hazard categories Corrosive to metal Acute toxicity (any route of exposure) Skin Corrosion or Irritation Serious eye damage or eye irritation SARA 302 Extremely Hazardous Substance None present or none present in regulated quantities. SARA 304 Emergency Release Notification None present or none present in regulated quantities. SARA 311/312 Hazardous Chemical Chemical Identity Threshold Planning Quantity Phosphoric acid 10000 lbs. SARA 313 (TRI Reporting) None present or none present in regulated quantities. Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130): None present or none present in regulated quantities. Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3): Chemical Identity Reportable quantity Phosphoric acid Reportable quantity: 5000 lbs. US State Regulations US. California Proposition 65 No ingredient requiring a warning under CA Prop 65. US. New Jersey Worker and Community Right-to-Know Act Chemical Identity Phosphoric acid US. Massachusetts RTK - Substance List Chemical Identity Phosphoric acid US. Pennsylvania RTK - Hazardous Substances Chemical Identity Phosphoric acid US. Rhode Island RTK Chemical Identity Phosphoric acid

(Revision Date 3/25) Page 5 of 6





Other

Not available.

Section 16: Other Information

Not available.

(Revision Date 3/25) Page 6 of 6