

MSDS OF POLYPHOSPHORIC ACID (PPA)

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FOR EMERGENCY CALL:

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Name:	Polyphosphoric acid Material Safety Data Sheet
Synonym:	Phospholeum; Superphosphoric Acid; Tetraphosphoric Acid
CAS:	8017-16-1

➤ Section 1 - Chemical Product

MSDS Name: Polyphosphoric acid

Synonym: Phospholeum; Superphosphoric Acid; Tetraphosphoric Acid.

➤ Section 2 - COMPOSITION, INFORMATION ON INGREDIENTS

CAS#	Chemical Name	content	EINECS#
8017-16-1	Polyphosphoric Acid	ca. 100	232-417-0

Hazard Symbols: C

Risk Phrases: 34

➤ Section 3 - HAZARDS IDENTIFICATION**EMERGENCY OVERVIEW**

Causes burns. Hygroscopic (absorbs moisture from the air).Corrosive.

Potential Health Effects**Eye:**

Causes eye burns. May cause chemical conjunctivitis and corneal damage.

Skin:

Causes skin burns. May cause skin rash (in milder cases), and cold and clammy skin with cyanosis or pale color.

Ingestion:

May cause severe and permanent damage to the digestive tract. Causes gastrointestinal tract burns. May cause perforation of the digestive tract. May cause systemic effects.

Inhalation:

Causes chemical burns to the respiratory tract. Aspiration may lead to pulmonary edema. May cause systemic effects.

Chronic:

Effects may be delayed.

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➤ Section 4 - FIRST AID MEASURES

Eyes: Get medical aid immediately. Do NOT allow victim to rub eyes or keep eyes closed. Extensive irrigation with water is required (at least 30 minutes).

Skin:

Get medical aid immediately. Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Destroy contaminated shoes.

Ingestion:

Never give anything by mouth to an unconscious person. Get medical aid immediately. Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water.

Inhalation:

Get medical aid immediately. Remove from exposure and move to fresh air immediately. If breathing is difficult, give oxygen. Do NOT use mouth-to-mouth resuscitation. If breathing has ceased apply artificial respiration using oxygen and a suitable mechanical device such as a bag and a mask.

Notes to Physician:

Treat symptomatically and supportively.

➤ Section 5 - FIRE FIGHTING MEASURES

General Information:

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Vapors may be heavier than air. They can spread along the ground and collect in low or confined areas. May react with metals and lead to the formation of flammable hydrogen gas. Runoff from fire control or dilution water may cause pollution.

Extinguishing Media:

Use foam, dry chemical, or carbon dioxide.

➤ Section 6 - ACCIDENTAL RELEASE MEASURES

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks:

Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Avoid runoff into storm sewers and ditches which lead to waterways. Clean up spills immediately, observing precautions in the Protective Equipment section. Provide ventilation. Spills may be neutralized with lime (calcium oxide, CaO) or soda ash (sodium carbonate, Na₂CO₃).

➤ Section 7 - HANDLING and STORAGE

Handling:

Do not breathe dust, vapor, mist, or gas. Do not get in eyes, on skin, or on clothing. Keep container tightly closed. Do

not ingest or inhale. Use only in a chemical fume hood. Discard contaminated shoes.

Storage:

Keep container closed when not in use. Store in a tightly closed container. Corrosives area. Store protected from moisture.

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↪ Section 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

Engineering Controls:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

Exposure Limits CAS# 8017-16-1: Personal Protective Equipment Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin:

Wear appropriate protective gloves to prevent skin exposure.

Clothing:

Wear appropriate protective clothing to prevent skin exposure.

Respirators:

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

↪ Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Viscous liquid

Color: colorless

Odor: odorless

pH: Not available.

Vapor Pressure: Not available.

Viscosity: Not available.

Boiling Point: Not available.

Freezing/Melting Point: Not available.

Autoignition Temperature: Not available.

Flash Point: Not available.

Explosion Limits, lower: Not available.

Explosion Limits, upper: Not available.

Decomposition Temperature:

Solubility in water: Soluble.

Specific Gravity/Density:

Molecular Formula:

Molecular Weight:

↪ Section 10 - STABILITY AND REACTIVITY

Chemical Stability:

Hygroscopic: absorbs moisture or water from the air. Reacts with water to generate heat and form phosphoric acid.

The reaction is not violent.

Conditions to Avoid:

Incompatible materials, combustible materials, exposure to moist air or water.

Incompatibilities with Other Materials:

Oxidizing agents.

Hazardous Decomposition Products:

Oxides of phosphorus.

Hazardous Polymerization: Will not occur.

Section 11 - TOXICOLOGICAL INFORMATION

RTECS#:

CAS# 8017-16-1 unlisted.

LD50/LC50:

Not available.

Carcinogenicity:

Polyphosphoric Acid - Not listed by ACGIH, IARC, or NTP.

Section 12 - ECOLOGICAL INFORMATION

Ecotoxicity:

Fish: Mosquito Fish: 138 PPM; 24 Hrs; Not Specified

Section 13 - DISPOSAL CONSIDERATIONS

Dispose of in a manner consistent with federal, state, and local regulations.

Section 14 - TRANSPORT INFORMATION

IATA

Shipping Name: PHOSPHORIC ACID

Hazard Class: 8

UN Number: 1805

Packing Group: III

IMO

Shipping Name: PHOSPHORIC ACID

Hazard Class: 8

UN Number: 1805

Packing Group: III

RID/ADR

Shipping Name: PHOSPHORIC ACID

Hazard Class: 8
UN Number: 1805
Packing group:

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➤ Section 15 - REGULATORY INFORMATION

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: C

Risk Phrases:

R 34 Causes burns.

Safety Phrases:

S 25 Avoid contact with eyes.

S 36/37/39 Wear suitable protective clothing, gloves
and eye/face protection.

S 45 In case of accident or if you feel unwell, seek
medical advice immediately (show the label where
possible).

WGK (Water Danger/Protection)

CAS# 8017-16-1: 1

Canada

CAS# 8017-16-1 is listed on Canada's DSL List.

CAS# 8017-16-1 is not listed on Canada's Ingredient Disclosure List.

US FEDERAL

TSCA

CAS# 8017-16-1 is listed on the TSCA inventory.