1. PRODUCT AND COMPANY IDENTIFICATION

Product Code: 4PPA115  
Product Name: Polyphosphoric acid 115  
Trade Name: PPA 115  
Company Name: Compass Chemical International LLC  
Address: 5544 Oakdale Road SE  
Smyrna, GA 30082  
Phone Number: (678)904-4017  
Website: www.compasschemical.com  
Emergency Contact: Chemtrec  
Phone: (800)424-9300  
(404)696-6711  
24 Hour Phone: (678)904-4017  
Intended Use: Intended for Industrial Use  
Synonyms: Hexaphos; Phospholeum

2. HAZARDS IDENTIFICATION

Skin Corrosion/Irritation, Category 1B

GHS Signal Word: Danger

GHS Hazard Phrases: H314 - Causes severe skin burns and eye damage.

P264 - Wash hands thoroughly after handling.  
P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P303+361+353 - IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.  
P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P305+351+338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310 - Immediately call a POISON CENTER or doctor/physician.  
P321 - Specific treatment see Response/First aid section on this label.  
P363 - Wash contaminated clothing before reuse.

GHS Storage and Disposal Phrases: P405 - Store locked up.  
P501 - Dispose of contents/container in accordance with all federal, state and local regulations.

OSHA Regulatory Status: This material is classified as hazardous under OSHA regulations.

Potential Health Effects (Acute and Chronic): Chronic: Prolonged inhalation may cause respiratory tract inflammation and lung damage. Prolonged or repeated skin contact may cause dermatitis. Prolonged or repeated eye contact may cause conjunctivitis.

Inhalation: Irritating to the nose, throat and respiratory tract. Irritation may lead to chemical pneumonitis and pulmonary edema. Causes severe irritation of upper respiratory tract with coughing, burns, breathing difficulty, and possible coma. Causes chemical burns to the respiratory tract.

Skin Contact: Contact with liquid is corrosive and causes severe burns and ulceration.

Eye Contact: May cause irreversible eye injury. Contact with liquid is corrosive to the eyes and causes severe burns.

Ingestion: Causes gastrointestinal tract burns. Causes severe pain, nausea, vomiting, diarrhea, and...
shock. May cause hemorrhaging of the digestive tract. May cause corrosion and permanent tissue destruction of the esophagus and digestive tract.

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>CAS #</th>
<th>Hazardous Components (Chemical Name)</th>
<th>Concentration</th>
<th>RTECS #</th>
</tr>
</thead>
<tbody>
<tr>
<td>8017-16-1</td>
<td>Polyphosphoric acids</td>
<td>100 %</td>
<td>NA</td>
</tr>
</tbody>
</table>

Additional Chemical Information

4. FIRST AID MEASURES

Emergency and First Aid Procedures:

In Case of 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 victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

In Case of Skin Contact: Get medical aid immediately. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash contaminated clothing before reuse.

In Case of Eye Contact: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.

In Case of Ingestion: 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 victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person. Keep victim warm and quiet. Get medical aid immediately. Call a poison control center.

Note to Physician: Treat symptomatically and supportively.

5. FIRE FIGHTING MEASURES

Flammability Classification: non-flammable

Flash Pt: NP  Method Used: Not Applicable

Explosive Limits: LEL: N/A  UEL: N/A

Autoignition Pt: NP

Suitable Extinguishing Media: Substance is noncombustible; use agent most appropriate to extinguish surrounding fire. Container explosion may occur under fire conditions. Cool all affected containers with flooding quantities of water.

Unsuitable Extinguishing Media: No information available.

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

Flammable Properties and Hazards: Not flammable or combustible.
6. ACCIDENTAL RELEASE MEASURES

Environmental Precautions: Water Spill: Prevent additional discharge of material if possible to do so without hazard. Warn occupants and downstream/downwind areas of release of corrosive hazardous material and request all to stay clear. This material will sink and is soluble/dispersible in water, it is probably not recoverable. Notify Authorities.

Steps To Be Taken In Case Spills/Leaks: Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Wear a self contained breathing apparatus and appropriate personal protection. (See Exposure Controls, Personal Protection section). Provide ventilation. Do not let this chemical enter the environment.

7. HANDLING AND STORAGE

Precautions To Be Taken in Handling: Do not get in eyes, on skin, or on clothing. Do not ingest or inhale. Use only in a chemical fume hood. Open closures with care. Keep container closed when not in use. Do NOT reuse empty containers without commercial cleaning or reconditioning. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to heat, sparks or open flames.


8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<table>
<thead>
<tr>
<th>CAS #</th>
<th>Partial Chemical Name</th>
<th>OSHA TWA</th>
<th>ACGIH TWA</th>
<th>Other Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>8017-16-1</td>
<td>Polyphosphoric acids</td>
<td>No data.</td>
<td>No data.</td>
<td>No data.</td>
</tr>
</tbody>
</table>

Respiratory Equipment: A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use.

Eye Protection: 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.

Protective Gloves: Hand: Compatible chemical-resistant gloves.

Other Protective Clothing: Wear appropriate protective clothing to prevent skin exposure. Clothes to prevent skin contact. Chemical resistant boots.

Engineering Controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use only under a chemical fume hood. Ventilation should be provided to control worker exposures and prevent health risks and as necessary to reduce, prevent and control dust, mist, vapor or aerosol generation.
9. PHYSICAL AND CHEMICAL PROPERTIES

Physical States:       [ ] Gas       [ X ] Liquid       [ ] Solid

Appearance and Odor:
White.
Odorless.
Odor threshold: Unavailable

Flammability (solid, gas): NA- Not available

Melting Point:         NA
Boiling Point:         550.0 °C (1022 °F)
Decomposition Temperature: NA
Autoignition Pt:        NP
Flash Pt:              NP Method Used: Not Applicable
Explosive Limits:
LEL: N/A               UEL: N/A
Specific Gravity (Water = 1): 1.80 - 2.050 at 25.6 °C (78.1 °F)
Density:               15.0 - 17.09 LB/GA at 25.0 °C (77.0 °F)

Physical States:       [ ] Gas       [ X ] Liquid       [ ] Solid

Appearance and Odor:
White.
Odorless.
Odor threshold: Unavailable

Flammability (solid, gas): NA- Not available

Melting Point:         NA
Boiling Point:         550.0 °C (1022 °F)
Decomposition Temperature: NA
Autoignition Pt:        NP
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Explosive Limits:
LEL: N/A               UEL: N/A
Specific Gravity (Water = 1): 1.80 - 2.050 at 25.6 °C (78.1 °F)
Density:               15.0 - 17.09 LB/GA at 25.0 °C (77.0 °F)

Specific Gravity (Water = 1):
White.
Odorless.
Odor threshold: Unavailable

10. STABILITY AND REACTIVITY

Stability:             Unstable [ ] Stable [ X ]
Conditions To Avoid - Instability:
Moisture, Metals. Excess heat.
Incompatibility - Materials To Avoid:
Hazardous Decomposition or Byproducts:
Phosphines, Oxides of Phosphorus, hydrogen gas.
Possibility of Hazardous Reactions:
Will occur [ ] Will not occur [ X ]
Conditions To Avoid - Hazardous Reactions:
No data available.
11. TOXICOLOGICAL INFORMATION

Toxicological Information: Epidemiology: No information found.
Teratogenicity: No information available. Reproductive Effects: Mutagenicity:
Neurotoxicity:

Irritation or Corrosion: No data available.
Symptoms related to Toxicological Characteristics: No data available.

Chronic Toxicological Effects: No data available.
Carcinogenicity/Other Information: CAS# 8017-16-1: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

<table>
<thead>
<tr>
<th>CAS #</th>
<th>Hazardous Components (Chemical Name)</th>
<th>NTP</th>
<th>IARC</th>
<th>ACGIH</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>8017-16-1</td>
<td>Polyphosphoric acids</td>
<td>n.a.</td>
<td>n.a.</td>
<td>n.a.</td>
<td>n.a.</td>
</tr>
</tbody>
</table>

12. ECOLOGICAL INFORMATION

General Ecological Information: Environmental: The acidity of phosphoric acid may be reduced readily by natural water hardness minerals, but the phosphate may persist indefinitely. During transport through the soil, phosphoric acid will dissolve some of the soil material, in particular, carbonate-based materials. The acid will be neutralized to some degree with adsorption of the proton and phosphate ions also possible. However, significant amounts of acid will remain for transport down toward the groundwater table.
Physical: No information available.

Results of PBT and vPvB assessment: No data available.
Persistence and Degradability: No data available.
Bioaccumulative Potential: No data available.
Mobility in Soil: No data available.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method: 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. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.
RCRA P-Series: None listed.
RCRA U-Series: None listed.

14. TRANSPORT INFORMATION

GHS Classification: Skin Corrosion/Irritation, Category 1B - Danger! Causes severe skin burns and eye damage

LAND TRANSPORT (US DOT):

DOT Proper Shipping Name: Corrosive liquid, acidic, inorganic, n.o.s. (Polyphosphoric acid)
DOT Hazard Class: 8 CORROSIVE
UN/NA Number: UN3264 Packing Group: III
LAND TRANSPORT (Canadian TDG):

TDG Shipping Name: PHOSPHORIC ACID SOLUTION
UN Number: 3264 Packing Group: III
Hazard Class: 8 - CORROSIVE TDG Classification:

LAND TRANSPORT (European ADR/RID):

ADR/RID Shipping Name:
UN Number: 3264 Packing Group: III
Hazard Class: 8 - CORROSIVE

MARINE TRANSPORT (IMDG/IMO):

IMDG/IMO Shipping Name:
UN Number: [N] Packing Group: III
Hazard Class: 8 - CORROSIVE
IMDG EMS Page: |

Additional Transport Information

15. REGULATORY INFORMATION

EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

<table>
<thead>
<tr>
<th>CAS #</th>
<th>Hazardous Components (Chemical Name)</th>
<th>S. 302 (EHS)</th>
<th>S. 304 RQ</th>
<th>S. 313 (TRI)</th>
</tr>
</thead>
<tbody>
<tr>
<td>8017-16-1</td>
<td>Polyphosphoric acids</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

This material meets the EPA 'Hazard Categories' defined for SARA Title III Sections:

Acute (immediate) Health Hazard: [X] Yes \[ ] No
Chronic (delayed) Health Hazard: [X] Yes \[ ] No
Fire Hazard: \[ ] Yes \[X] No
Sudden Release of Pressure Hazard: \[ ] Yes \[X] No
Reactive Hazard: \[ ] Yes \[X] No

Other US EPA or State Lists

CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No

International Regulatory Lists

Canadian DSL: Yes; Canadian NDSL: No; Mexico INSQ: Yes; Australia ICS: Yes; China IECSC: Yes; Japan ENCS: Yes - (1)-244; Korea ECL: Yes - KE-29024; Philippines ICCS: Yes; Taiwan TCSCA: Yes; REACH: Yes - (R), (P)

Regulatory Information Statement:

Regulatory information provided in this SDS was prepared for this product and is to be used only for the product in its present form. If this material is used as a component in another material or altered in any way, the information in this SDS may no longer be applicable. This document was generated for the purpose of distributing health, safety and environmental data.
16. OTHER INFORMATION

Revision Date: 07/31/2015
Preparer Name: Compass EHS Department (404)696-6711 4071

Hazard Rating System:

- **HEALTH**: 3
- **FLAMMABILITY**: 0
- **PHYSICAL**: 1
- **PPE**: G

HMIS: NFPA:

**Additional Information About This Product:**
SDS Data Field Acronym Legend:
- NA- Not Available
- NE- Not Established
- NP- Not Applicable
- NR- Not Required
- PR- Proprietary
- TS- Trade Secret.

**Company Policy or Disclaimer:**
MANUFACTURER DISCLAIMER: NOTICE: We believe that the information contained on this Safety Data Sheet is accurate. The suggested procedures are based on experience as of the date of publication. They are not necessarily either all-inclusive or fully adequate in every circumstance. Also, these suggestions should not be confused with or followed in violation of applicable laws, regulation, rules or insurance requirements. NO WARRANTY IS MADE, EXPRESSED OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE.