



MSDS ID: AC0225
HYDRITE NAME: POLYPHOSPHORIC ACID 105%
(COMPASS)
DATE: 9/19/2011

MATERIAL SAFETY DATA SHEET

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DATE PREPARED: 09/19/11
Polyphosphoric Acid 105-115

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Polyphosphoric Acid 105 - 115
PRODUCT CODE: 4PPA105; 4PPA115
CHEMICAL FAMILY: Inorganic Acid

MANUFACTURER

Compass Chemical International, LLC
5544 Oakdale Road, S.E.
Smyrna, GA 30082
Customer Service: 888-962-6296

24 HR. EMERGENCY TELEPHONE NUMBERS

CHEMTREC (800) 424-9300
Emergency Phone (888) 962 6296

2. COMPOSITION / INFORMATION ON INGREDIENTS

COMMENTS: The composition of this mixture may be proprietary information. In the event of a medical emergency, compositional information will be provided to a physician or nurse.

This product is hazardous as defined in 29 CFR 1910.1200., based on the following composition:

<u>Chemical Name</u>	<u>Wt. %</u>	<u>CAS#</u>
Polyphosphoric Acid		8017-16-1

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

PHYSICAL APPEARANCE: Clear, colorless liquid

IMMEDIATE CONCERNS:

DANGER!

Causes eye, skin and digestive tract burns.

Harmful or fatal if swallowed.

Mist or vapor may be harmful if inhaled.

Exposure to hot material may cause thermal burns.

POTENTIAL HEALTH EFFECTS

EYES: Corrosive; causes eye burns and permanent tissue damage.

SKIN: Corrosive; causes permanent skin damage.

INGESTION: Corrosive to mouth, esophagus and stomach.

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INHALATION: Mist may be severely irritating to nose, throat and lungs depending on concentration and duration of exposure. May cause breathing disorders and/or lung damage.

CANCER STATEMENT: This product (or any component at a concentration of 0.1% or greater) is not listed by the NTP, IARC, OSHA or EPA as a carcinogen.

4. FIRST AID MEASURES

EYES: Immediately flush eyes with large amounts of water for at least 15 minutes. Get immediate medical attention.

SKIN: Immediately wash with large amounts of water; use soap if available. Remove contaminated clothing, including shoes, after washing has begun. Contaminated clothing must be laundered before re-use. Get immediate medical attention.

INGESTION: If swallowed, DO NOT induce vomiting. If individual is conscious, give milk or water to dilute stomach contents. Keep warm and quiet. Get prompt medical attention. DO NOT attempt to give anything by mouth to an unconscious person.

INHALATION: In case of adverse exposure to vapors and/or aerosols, immediately remove the affected victim from exposure and get immediate medical attention. If breathing is difficult, give oxygen. If breathing stops, give artificial respiration.

5. FIRE FIGHTING MEASURES

FLASHPOINT AND METHOD: Nonflammable - Aqueous Solution

FLAMMABLE LIMITS: Not Applicable

AUTOIGNITION TEMPERATURE: Not Applicable

EXTINGUISHING MEDIA: Use extinguishing agent suitable for type of surrounding fire.

HAZARDOUS COMBUSTION PRODUCTS: Oxides of Phosphorous

FIRE FIGHTING PROCEDURES: Material will not burn. Containers can build up pressure if exposed to heat (fire). Use water spray to cool fire exposed surfaces and to protect personnel.

FIRE FIGHTING EQUIPMENT: As in any fire, wear self-contained breathing apparatus pressure-demand, (MSHA/NIOSH approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

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ENVIRONMENTAL PRECAUTIONS

WATER SPILL: Prevent additional discharge of material, if possible to do so without hazard. Warn occupants and downstream/downwind areas of corrosive release hazard and request all to stay clear. As this material will sink and is soluble/dispersible, it is probably not recoverable. Notify authorities.

LAND SPILL: Prevent additional discharge of material, if possible to do so without hazard. Warn occupants and downwind areas of corrosive release hazard and request all to stay clear. For small spills implement cleanup procedures: for large spills implement cleanup procedures and, if in public area, advise authorities.

GENERAL PROCEDURES: Recover spilled material and place in suitable containers for recycle or disposal. Neutralize spill area with Soda Ash, Sodium Bicarbonate or Lime. Flush neutralized spill with copious amounts of water. Exercise caution during neutralization as considerable heat may be generated.

RELEASE NOTES: Recycle or dispose of recovered material in accordance with all federal, state, and local regulations.

7. HANDLING AND STORAGE

GENERAL PROCEDURES: Keep container closed. Both open and handle containers with care. Store in a cool, well ventilated place away from incompatible materials.

Do NOT pressurize, cut, heat, or weld containers. Empty product containers may contain product residue. Do NOT reuse empty containers without commercial cleaning or reconditioning.

STORAGE: Recommended container material is 316 ELC Stainless Steel. Avoid 304 Stainless Steel.

STORAGE TEMPERATURE: Ambient

STORAGE PRESSURE: Atmospheric

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS: Ventilation should be provided to control worker exposures and prevent health risk; and as necessary to reduce, prevent and control aerosol generation.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Chemical goggles and face shield required.

SKIN: Where contact may occur, wear chemical resistant gloves, chemical suit, and rubber boots.

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RESPIRATORY: Where concentrations in air may exceed the limits given in this section or Section 2 and engineering, work practice or other means of exposure reduction are not adequate, NIOSH/MSHA approved respirators may be necessary to prevent overexposure by inhalation.

OTHER USE PRECAUTIONS: Safety shower and eyewash station are necessary in area of use.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid

ODOR: Odorless

APPEARANCE: Clear

COLOR: Colorless

pH: <1

BOILING POINT: 572-1022 °F

FREEZING POINT: 61°F

SOLUBILITY IN WATER: Soluble

SPECIFIC GRAVITY: 1.80 - 2.05 at 39°F

COMMENTS:

VAPOR PRESSURE: Not Available

10. STABILITY AND REACTIVITY

STABLE: Yes

HAZARDOUS POLYMERIZATION: No

CONDITIONS TO AVOID: Moisture

INCOMPATIBLE MATERIALS: Strong bases and metals

11. TOXICOLOGICAL INFORMATION

ACUTE EYES: Corrosive (rabbit).

SKIN EFFECTS: Corrosive (rabbit).

ACUTE ORAL LD₅₀: 1530 mg/kg (rat) (Phosphoric Acid)

ACUTE INHALATION LC₅₀: >850 mg/m³/1hr (rat) (Phosphoric Acid)

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION: No data available

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13. DISPOSAL CONSIDERATIONS

EMPTY CONTAINER:

"Empty" containers retain product residue and can be dangerous. Empty drums should be completely emptied, properly bunged and promptly returned to a drum reconditioner, or properly disposed of.

RCRA/EPA WASTE INFORMATION: Discarded product, as sold, would be considered a RCRA Characteristic Hazardous Waste as it meets the definition/characteristic of corrosivity (designated as D002).

GENERAL COMMENTS: Discarded product, as sold, would be considered a RCRA hazardous waste. This material must be disposed of in accordance with local, state and federal regulations in a permitted hazardous waste treatment, storage and disposal facility.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME: Corrosive Liquid, Acidic, Inorganic, n.o.s.

TECHNICAL NAME: Polyphosphoric Acid

PRIMARY HAZARD CLASS/DIVISION: 8

UN/NA NUMBER: UN-3264

PACKING GROUP: III

REPORTABLE QUANTITY (RQ) UNDER CERCLA: 100

LABEL: Corrosive

NAERG: 154

COMMENT: If material is loaded above 100°C (212°F), add a hot placard in addition to the UN-3264 Corrosive placard.

15. REGULATORY INFORMATION

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

311/312 HAZARD CATEGORIES: Acute Health.

FIRE: No

PRESSURE GENERATING: No

REACTIVITY: No

ACUTE: Yes

CHRONIC: No

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313 REPORTABLE INGREDIENTS: This product does not contain Section 313 Reportable Ingredients.

CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)

CERCLA REGULATORY: If the reportable quantity of this product is accidentally spilled, the incident is subject to the provisions of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) and must be reported to the National Response Center by calling 800-424-8802.

REPORTABLE SPILL QUANTITY: 100 lbs

TSCA (TOXIC SUBSTANCE CONTROL ACT)

TSCA STATUS: All components of this product are listed on the TSCA Inventory or are exempt from TSCA Inventory requirements.

RCRA STATUS: Discarded product, as sold, would be considered a RCRA Characteristic Hazardous Waste as it meets the definition/characteristic of corrosivity (designated as D002).

CANADA INGREDIENT DISCLOSURE LIST: This product, or its components, are listed on or are exempt from the Canadian Domestic Substance List (DSL).

16. OTHER INFORMATION

PREPARED BY: EH&S

HMIS RATING

HEALTH:	3
FLAMMABILITY:	0
REACTIVITY:	1
PERSONAL PROTECTION:	G

HMIS RATINGS NOTES:

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This information is for people trained in
the National Paint & Coatings Association's
(NPCA) Hazardous Materials Identification
System (HMIS).

Key

4 = Severe

3 = Serious

2 = Moderate

1 = Slight

0 = Minimal

MANUFACTURER DISCLAIMER: NOTICE: We believe that the information contained on this Material 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.**

