

SECTION 1: Identification**1.1 Product identifier**

Product name #1 PAA Test Reagent

1.2 Other means of identification

#1 Peracetic acid Test Reagent

1.3 Recommended use of the chemical and restrictions on use

Analytical Testing Reagent

1.4 Supplier's details

Name

Address

890 Lively Blvd., Wood Dale IL 60191

Telephone

Non-Emergency: 630-238-9292

1.5 Emergency phone number(s)

800-424-9300 CHEMTREC®

SECTION 2: Hazard identification**General hazard statement**

To the best of our knowledge, this Safety Data Sheet is prepared to comply with US OSHA 29 CFR 1910.1200 and other governmental agencies both domestic and foreign. Hazard and precautionary statements are based on maximum listed concentrations of each hazardous ingredient. Unlisted ingredients are not "hazardous" per the OSHA Hazard Communication Standard (29 CFR 1910.1200) and/or other governmental agencies.

2.1 Classification of the substance or mixture

GHS classification in accordance with: (US) OSHA (29 CFR 1910.1200)

- Acute toxicity, oral, Cat. 4
- Eye damage/irritation, Cat. 2A
- Skin corrosion/irritation, Cat. 2B

2.2 GHS label elements, including precautionary statements.**Pictogram**

Irritant

Signal word

Warning

Hazard statement(s)

H302

Harmful if swallowed.

H314

Causes skin irritation.

H318

Causes serious eye irritation.

H413

May cause long lasting harmful effects to aquatic life.

Precautionary statement(s)

P261

Avoid breathing dust/fume/gas/mist/vapors/spray.

P264

Wash hands thoroughly after handling.

P270

Do not eat, drink, or smoke when using this product.

P280

Wear protective gloves/protective clothing/eye protection/face protection.

P301+P312

IF SWALLOWED: Call a POISON CENTER /doctor if you feel unwell.

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P301+P330+P331

P303+P361+P353

P304+P340

P305+P351+P338

P332+P313

P337+P313

P362+P364

P501

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

If skin irritation occurs: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

Take off contaminated clothing and wash it before reuse.

Dispose of contents/container according to state and local regulations

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

1. Acetic acid

Concentration

10 - 20 % (weight)

Other names / synonyms

ACETIC ACID, conc.>90%; ACETIC ACID, GLACIAL; Acidum aceticum; ETHANOIC ACID; ETHYLIC ACID; GLACIAL ACETIC ACID; METHANECARBOXYLIC ACID; UN 2789; UN 2790; VINEGAR ACID

EC no.

200-580-7

CAS no.

64-19-7

Index no.

607-002-00-6

- Flammable liquids, Cat. 3

- Skin corrosion/irritation, Cat. 1A

H226

Flammable liquid and vapor

H314

Causes severe skin burns and eye damage

2. Phosphoric acid

Concentration

0 - 5 % (weight)

Other names / synonyms

Acidum phosphoricum; o-Phosphoric Acid; Orthophosphoric acid; Phosphoric acid; phosphoric acid, Phosphoric acid liquid.

EC no.

231-633-2

CAS no.

7664-38-2

Index no.

015-011-00-6

- Skin corrosion/irritation, Cat. 1B

H314

Causes severe skin burns and eye damage.

SECTION 4: First-aid measures

4.1 Description of necessary first-aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

If inhaled

Remove person to fresh air and keep comfortable for breathing. Call a poison center or doctor if you feel unwell.

Acute and delayed symptoms and effects: May cause respiratory irritation.

Signs/symptoms may include burning pain in the nose and throat, coughing.

In case of skin contact

Take off immediately all contaminated clothing. Rinse skin with water/shower for at least 15 minutes. Call a poison center or doctor if irritation develops or persists. Wash contaminated clothing before reuse.

Acute and delayed symptoms and effects: Causes skin irritation.

Signs/symptoms may include localized redness, swelling, itching.

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In case of eye contact

Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention/advice.

Acute and delayed symptoms and effects: Causes serious eye irritation. Signs/symptoms may include redness, swelling, pain, tearing.

If swallowed

Rinse mouth. Do NOT induce vomiting. Immediately call a poison center or doctor. If vomiting occurs naturally, have victim lean forward to reduce the risk of aspiration. Never give anything by mouth to an unconscious person. Call a doctor if you feel unwell.

Acute and delayed symptoms and effects: May cause gastrointestinal irritation. Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

4.2 Most important symptoms/effects, acute and delayed.

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.

4.3 Indication of immediate medical attention and special treatment needed, if necessary

After first aid, get appropriate in-plant, paramedic, or community medical support.

SECTION 5: Fire-fighting measures

5.1 Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.

5.2 Specific hazards arising from the chemical.

None known other than material can splatter above 100°C/212°F.

5.3 Special protective actions for fire-fighters

Avoid any skin contact. Effects of contact or inhalation may be delayed. Fire may produce irritating, corrosive and/or toxic gases. Runoff from fire control or dilution water may be corrosive and/or toxic and cause pollution. Wear positive pressure self-contained breathing apparatus (SCBA). Wear chemical protective clothing that is specifically recommended by the manufacturer. It may provide little or no thermal protection. Structural firefighters' protective clothing provides limited protection in fire situations ONLY; it is not effective in spill situations where direct contact with the substance is possible.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment, and emergency procedures

Wear respiratory protection if necessary. Avoid breathing gas, mist, vapors, or spray. Ensure adequate ventilation. Evacuate personnel to safe areas. For personal protection see section 8.

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up.

Stop leak if you can do it without risk. Sweep up and shovel into suitable containers for disposal.

Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Do not swallow. Avoid breathing mist, vapors, or spray. Wash thoroughly after handling. Do not eat, drink, or smoke when using this product. Use in a well-ventilated area. See Section 8 for information on Personal Protective Equipment.

7.2 Conditions for safe storage, including any incompatibilities.

Store away from incompatible materials. See Section 10 for information on Incompatible Materials. Keep out of the reach of children.

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Specific end use(s)

Apart from the uses mentioned in section 1 no other specific uses are stipulated.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

1. Acetic acid (CAS: 64-19-7 EC: 200-580-7)

PEL (Inhalation): 25 mg/m³; USA (OSHA)

PEL (Inhalation): 10 ppm; USA (OSHA)

PEL (Inhalation): 10 ppm, (ST) 15 ppm, (C) 40 ppm; USA (Cal/OSHA)

REL (Inhalation): 10 ppm, (ST) 15 ppm; USA (NIOSH)

TLV® (Inhalation): 10 ppm, (ST) 15 ppm; USA (ACGIH)

TWA (Inhalation): 10 ppm; USA (ACGIH)

STEL (Inhalation): 15 ppm; USA (ACGIH)

ST (Inhalation): 15 ppm

37 mg/m³; USA (NIOSH)

TWA (Inhalation): 10 ppm

25 mg/m³; USA (NIOSH)

PEL (Inhalation): 10 ppm

25 mg/m³; USA (Cal/OSHA)

STEL (Inhalation): 15 ppm

37 mg/m³; USA (Cal/OSHA)

C (Inhalation): 40 ppm; USA (Cal/OSHA)

2. Phosphoric acid (CAS: 7664-38-2 EC: 231-633-2)

PEL (Inhalation): 1 mg/m³; USA (OSHA)

PEL (Inhalation): 1 mg/m³, (ST) 3 mg/m³; USA (Cal/OSHA)

REL (Inhalation): 1 mg/m³, (ST) 3 mg/m³; USA (NIOSH)

TLV® (Inhalation): 1 mg/m³, (ST) 3 mg/m³; USA (ACGIH)

8.2 Appropriate engineering controls

Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, gas, etc.) below recommended exposure limits.

8.3 Individual protection measures, such as personal protective equipment (PPE)

Pictograms



Eye/face protection

Tightly fitting safety goggles. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Ensure that eyewash stations and/or safety showers are close to the workstation location if working with concentrated product.

Skin protection

Wear protective gloves. Consult manufacturer specifications for further information.

Body protection

Wear protective clothing. Clothing with full length sleeves and pants should be worn. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control banding approach

No data available.

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Environmental exposure controls

Do not let product enter drains.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance/form (physical state, color, etc.)	Clear liquid
Odor	Vinegar odor
Odor threshold	No data available.
pH	<3
Melting point/freezing point	Approx. 32°F
Initial boiling point and boiling range	212°F+/-
Flash point	No data available.
Evaporation rate	1.00
Flammability (solid, gas)	Non-Flammable
Upper/lower flammability limits	No data available.
Upper/lower explosive limits	No data available.
Vapor pressure	No data available.
Vapor density	No data available.
Relative density	No data available.
Solubility(ies)	Completely soluble in water
Partition coefficient: n-octanol/water	No data available.
Auto-ignition temperature	No data available.
Decomposition temperature	No data available.
Viscosity	No data available.
Explosive properties	No data available.
Oxidizing properties	No data available.

SECTION 10: Stability and reactivity

10.1 Reactivity

Contact with incompatible materials. Sources of ignition. Exposure to heat.

10.2 Chemical stability

Stable under normal storage conditions.

10.3 Possibility of hazardous reactions

No data available.

10.4 Conditions to avoid.

Excessive temperature, contact with any type of reactive chemicals.

10.5 Incompatible materials

Avoid contact with Strong Alkalis, Oxidizers, or any other type of reactive material.

Acetic acid: Oxidizing agents, Soluble carbonates and phosphates, Hydroxides, Metals, Peroxides, permanganates, e.g. potassium permanganate, Amines, Alcohols

Phosphoric acid: Strong bases, Powdered metals

10.6 Hazardous decomposition products

There are no known hazardous decomposition products for this material unless the material is burned in which case undetermined evolution of toxic gases may occur. In the event of fire: see section 5.

Acetic acid: Hazardous decomposition products formed under fire conditions. - Carbon oxides

Phosphoric acid: Hazardous decomposition products formed under fire conditions. - Oxides of phosphorus

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

Likely Routes of Exposure: Eye contact. Skin contact. Inhalation. Ingestion.

Date of Preparation/Revision: 3/2023

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Components:

Acetic acid: LD50 Oral - Rat - 3,310 mg/kg

Phosphoric acid: LD50 Oral - Rat - 3500mg/kg

Symptoms (including delayed and immediate effects):

Inhalation: May cause respiratory irritation. Signs/symptoms may include burning pain in the nose and throat, coughing, wheezing.

Ingestion: May cause gastrointestinal irritation. Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

Skin corrosion/irritation

Causes skin irritation. Signs/symptoms may include localized redness, swelling, and itching.

Acetic acid: LD50 Skin - Rat - 1,112 mg/kg

Phosphoric acid: LD50 Skin - Rabbit - 1260mg/kg

Serious eye damage/irritation

Causes serious eye irritation. Signs/symptoms may include cloudy appearance of the cornea, chemical burns, severe pain, tearing.

Respiratory or skin sensitization

No data available on product.

Components:

Acetic acid: LC50 Inhalation - Rat - 11.4 mg/l - 4 h

Germ cell mutagenicity

No data available.

Carcinogenicity

This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity

No data available.

Summary of evaluation of the CMR properties

No data available.

STOT-single exposure

No data available.

STOT-repeated exposure

No data available.

Aspiration hazard

No data available.

Additional information

No data available.

SECTION 12: Ecological information

Toxicity

No data available on product.

Components:

Acetic acid: LC50 - *Oncorhynchus mykiss* (rainbow trout) - >1,000 mg/l - 96 h

Acetic acid: EC50 - *Daphnia magna* (water flea) - >300.82 mg/l - 48 h

Phosphoric acid: LC50 - *Daphnia magna* (water flea) - 138mg/l - 96hr

Phosphoric acid: *Chlorella vulgaris* (freshwater algae) - Non-toxic to algae

Persistence and degradability

No data available on product

Bioaccumulative potential

No data available on product

Mobility in soil

No data available.

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Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

Other adverse effects

No data available.

SECTION 13: Disposal considerations

Disposal of the product

Disposal should be in accordance with applicable Federal, State and local laws and regulations. Local regulations may be more stringent than State or Federal requirements.

Disposal of contaminated packaging

Dispose of as unused product.

Waste treatment

Contact your supplier or a licensed contractor for detailed recommendations. Follow applicable federal, state and local regulations.

Sewage disposal

The product should not be allowed to enter drains, water courses or the soil.

Other disposal recommendations

Triple rinse the empty containers with water before disposal to reconditioned or land fill or garbage.

SECTION 14: Transport information

DOT (US)

UN Number: NA

Class: NA

Packing Group: NA

Proper Shipping Name: NON-REGULATED MATERIALS

Reportable quantity (RQ): 5,000 lb., Contains: Acetic Acid & Phosphoric Acid

Marine pollutant: No

Poison inhalation hazard: No

IMDG

UN Number:

Class:

Packing Group:

EMS Number:

Proper Shipping Name:

IATA

UN Number:

Class:

Packing Group:

Proper Shipping Name:

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations specific for the product in question

SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 311/312 Hazards

Chronic Health Hazard

SARA 313 Components

This material does not contain chemical components with known CAS numbers that exceed the threshold. (De Minimis) reporting levels established by SARA Title III, Section 313.

Toxic Substances Control Act (TSCA) Inventory

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All components of this product are in compliance with the inventory listing requirements of the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory

Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA):

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) RQ: 5,000 lb., Contains: Acetic Acid & Phosphoric Acid

Massachusetts Right To Know Components

Acetic acid: CAS number: 64-19-7
Phosphoric acid: CAS number: 7664-38-2

New Jersey Right To Know Components

Acetic acid: CAS number: 64-19-7
Phosphoric acid: CAS number: 7664-38-2

Pennsylvania Right To Know Components

Acetic acid: CAS number: 64-19-7
Phosphoric acid: CAS number: 7664-38-2

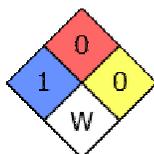
California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

HMIS Rating

#1 PAA Test Reagent	
HEALTH	1
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	B

NFPA Rating



SECTION 16: Other information

16.1 Further information/disclaimer

DISCLAIMER: The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigation to determine the suitability of information for their purposes. In no event shall manufacturer be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages, whatsoever arising, even if manufacturer has been advised of the possibility of such damages.

SDS CODE: MCI#1PAA-2022