

SECTION 1: Identification of the substance/mixture and of the company/undertaking

- 1.1. Product identifier**
Product name : pH Treat
Product form : Mixture
- 1.2. Relevant identified uses of the substance or mixture and uses advised against**
- 1.3. Details of the supplier of the safety data sheet**
Refined Technologies
PO Box 132196
The Woodlands, TX 73870
T: 888-634-3183
CSservice@rt-i.com
- 1.4. Emergency telephone number**
Emergency number : PERS - (800) 633-8253

SECTION 2: Hazards identification

- 2.1. Classification of the substance or mixture**
GHS-US classification
Eye Irrit. 1 H319

- 2.2. Label elements**
GHS-US labeling
Hazard pictograms (GHS-US)



GHS07

- Signal word (GHS-US)
Hazard statements (GHS-US)
Precautionary statements (GHS-US)

- : **Danger**
: H319 – Causes serious eye irritation
: P264 – Wash hands thoroughly after handling.
: P280 – Wear eye protection, face protection, protective clothing, and protective gloves
: P305+P351+P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
: P337+P313 – If eye irritation persists: Get medical advice/attention.
: P501 – Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation

- 2.3. Other hazards**
No additional information available
2.4. Unknown acute toxicity (GHS US)
No data available

SECTION 3: Composition/Information on ingredients

- 3.1. Substances**
Not applicable
3.2. Mixtures

Name	Product identifier	%
Citric Acid	(CAS No) 77-92-9	40 - 60

*In accordance with paragraph (i) of the OSHA Hazard Communication Standard (29 CFR §1910.1200), the specific chemical identity or exact weight % has been withheld as a trade secret

SECTION 4: First aid measures

- 4.1. Description of first aid measures**
- First-aid measures general : If exposed or concerned, get medical attention/advice. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before re-use. Never give anything to an unconscious person.
- First-aid measures after inhalation : IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Get medical attention. If breathing is difficult, supply oxygen. If breathing has stopped, give artificial respiration.
- First-aid measures after skin contact : IF ON SKIN (or clothing): Remove affected clothing and wash all exposed skin with water for at least 15 minutes. If irritation develops or persists, get medical attention immediately.
- First-aid measures after eye contact : IF IN EYES: Immediately flush with plenty of water for at least 15 minutes. Remove contact lenses if present and easy to do so. Get medical attention immediately. Continue rinsing.
- First-aid measures after ingestion : IF SWALLOWED: Rinse mouth thoroughly. Do not induce vomiting without advice from poison control center or medical professional. Get medical attention immediately.
- 4.2. Most important symptoms and effects, both acute and delayed**
- Symptoms/effects : Causes serious eye irritation.
Symptoms/effects after inhalation : May cause minor respiratory irritation.
Symptoms/effects after skin contact : Causes minor skin irritation.
Symptoms/effects after eye contact : Causes serious eye irritation.
Symptoms/effects after ingestion : May cause gastrointestinal irritation.
- 4.3. Indication of any immediate medical attention and special treatment needed**
Treat symptomatically. Symptoms may be delayed.

pH Treat

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Prepared according to OSHA Hazard Communication Standard (29 CFR 1910.1200)

SECTION 5: Firefighting measures

- 5.1. Extinguishing media**
Suitable extinguishing media : Use fire-extinguishing media appropriate for surrounding materials.
Unsuitable extinguishing media : None
- 5.2. Special hazards arising from the substance or mixture**
Fire hazard : During fire, gases hazardous to health may be formed.
- 5.3. Advice for firefighters**
Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

- 6.1. Personal precautions, protective equipment and emergency procedures**
General measures : Wear personal protective equipment. Isolate and post spill area. Keep people away from and upwind of spill/leak. Eliminate all sources of ignition and remove combustible materials.
- 6.1.1. For non-emergency personnel**
Emergency procedures : Evacuate unnecessary personnel.
- 6.1.2. For emergency responders**
Protective equipment : Equip cleanup crew with proper protection.
Emergency procedures : Ventilate area.
- 6.2. Environmental precautions**
Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.
- 6.3. Methods and material for containment and cleaning up**
Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.
- 6.4. Reference to other sections**
See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

- 7.1. Precautions for safe handling**
Precautions for safe handling : Use personal protective equipment as required. Avoid contact with eyes, skin, and clothing. Avoid breathing mist or vapor.
Hygiene measures : Wash thoroughly after handling.
- 7.2. Conditions for safe storage, including any incompatibilities**
Storage conditions : Keep container tightly closed when not in use. Store in a cool dry place. Store in a well ventilated place.
- 7.3. Specific end use(s)**
No additional information available

SECTION 8: Exposure controls/personal protection

- 8.1. Control parameters**
Occupational exposure limits : None of the components have assigned exposure limits
- 8.2. Exposure controls**
Appropriate engineering controls : No data available.
Personal protective equipment : Gloves. Wear chemical goggles and face shield in combination. Wear lab coat with full coverage clothing.
Materials for protective clothing : Wear suitable protective clothing, gloves and eye/face protection.
Hand protection : Use gloves chemically resistant to this material when prolonged or repeated contact could occur. Gloves should be classified under Standard EN 374 or ASTM F 1296. Suggested glove materials are: Neoprene, Nitrile/butadiene rubber, Polyethylene, Ethyl vinyl alcohol laminate, PVC or vinyl. Suitable gloves for this specific application can be recommended by the glove supplier. Change contaminated gloves immediately.
Eye protection : Chemical goggles or safety glasses with side-shields.
Skin and body protection : Wear long sleeves, and chemically impervious PPE/coveralls to minimize bodily exposure.
Respiratory protection : In case of insufficient ventilation wear a NIOSH-approved (or equivalent) full-facepiece airline respirator in the positive pressure mode with emergency escape provisions. In case of inadequate ventilation or risk of inhalation of vapors, use suitable respiratory equipment with gas filter (type A2). Use a positive-pressure air-supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air-purifying respirators may not provide adequate protection.
- Other information : Provide eyewash station and safety shower. Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

- 9.1. Information on basic physical and chemical properties**
Physical state : Liquid
Color : Colorless
Odor : Odorless
Odor Threshold : No data available
pH : < 2 (0.1N solution = 2.2 pH)
Relative evaporation rate (butyl acetate=1) : As water
Melting point : No data available
Freezing point : No data available
Boiling point : ≈ 100 °C

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Flash point	: > 93.33 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: As water
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Specific gravity / density	: 1.24 @ 20 °C
Solubility	: Completely Soluble
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Explosion limits	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reactions known under conditions of normal use.

10.2. Chemical stability

Stable under normal conditions

10.3. Possibility of hazardous reactions

Hazardous polymerization does not occur

10.4. Conditions to avoid

No data available.

10.5. Incompatible materials

Metal nitrates (potentially explosive reaction). Alkali carbonates and bicarbonates. Potassium tartrate. Will corrode copper, zinc, aluminum and their alloys.

10.6. Hazardous decomposition products

Thermal decomposition may release oxides of carbon

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

pH Treat	
LD50 rat	6,730 mg/kg
LD50 mouse	5,040 mg/kg

Skin corrosion/irritation	: May cause irritation pH: < 2
Serious eye damage/irritation	: Causes serious eye irritation pH: < 2
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity – single exposure	: Not classified
Specific target organ toxicity – repeated exposure	: Not classified
Aspiration hazard	: Not classified
Symptoms/effects after inhalation	: May cause respiratory irritation.
Symptoms/effects after skin contact	: Causes severe burns.
Symptoms/effects after eye contact	: Causes serious eye irritation.
Symptoms/effects after ingestion	: May cause gastrointestinal irritation.

SECTION 12: Ecological information

12.1. Toxicity

Aquatic toxicity : Harmful to aquatic life with long lasting effects.

12.2. Persistence and degradability

pH Treat	
Persistence and degradability	Readily degradable

12.3. Bioaccumulative potential

pH Treat	
Bioaccumulative potential	Not bioaccumulative.

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12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Other information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

Additional information : Handle empty containers with care because residual vapors are flammable.

Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

In accordance with DOT

Transport document description : Not regulated

Additional information

Emergency Response Guide (ERG) Number : NA

Other information : No supplementary information available.

Transport by sea

UN-No. (IMDG) : Not regulated

Air transport

UN-No. (IATA) : Not regulated

SECTION 15: Regulatory information

15.1. US Federal regulations

pH Treat

SARA Section 311/312 Hazard Chemical	500 lbs – Threshold planning quantity (Citric Acid)
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15.2. International regulations

No additional information available.

15.3. US State regulations

No additional information available.

SECTION 16: Other information

Other information : None.

NFPA health hazard : 1 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.

NFPA fire hazard : 1 - Materials that will not burn under typical fire conditions.

NFPA reactivity : 0 - Materials that in themselves are normally stable but can become unstable at elevated temperatures and pressures.

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