

NFPA	GHS Pictogram	Personal Protective Equipment
		

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name	Product form	Product code
pH Down™	Liquid	pH-D

1.2. Relevant identified uses of the substance or mixture and uses advised against: pH adjustment fluid.

1.3. Details of the supplier of the safety data sheet

Rhomar HTF LLC, dba Rhomar Water
2103 E. Rockhurst St., Springfield, MO 65802 USA
T 417-862-2600; F 417-862-6410
Email: TalkToUs@rhomarwater.com

1.4. Emergency telephone number
CHEM TEL: 1-800-255-3924

SECTION 2: HAZARDS IDENTIFICATION

GHS Pictogram:



Signal Word: **Warning**

Hazard Statement:

H319: Causes serious eye irritation (*Serious eye damage/eye irritation: Category 2A*)
H316: Causes mild skin irritation (*Skin Corrosion/Irritation: Category 3*).

Precautionary Statements:

P264: Wash hands thoroughly after handling.
P280: Wear protective gloves/clothing, eye/face protection.
P305 + P351 + P338 + P337 + P313: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention/advice.
P302 + P352 + P333 + P313: IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention
P102: Keep out of reach of children.
P501: Dispose of contents/container in accordance with applicable federal, state and local laws.

Reference: GHS Purple Book-Annex 3

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Substance	Common Name/Synonym	CAS #	Amount, %
Citric acid	N/A	77-92-9	20 - 30
FD & C Red dye	Food color	N/A	<0.01
Demineralized water	Water	7732-18-5	Balance

SECTION 4: FIRST AID MEASURES

- 4.1. **General advice:** If there exists potential for exposure, refer to **Section 8** for personal protective equipment.
- 4.2. **Effects of overexposure:**
Acute overexposure: May irritate the skin and eyes. Its ingestion may result in mucosal membrane irritation.
Chronic overexposure: No data available.
- 4.3. **Description of first aid measures:**
Eye contact : Immediately flush thoroughly with plenty of water while lifting the lower and upper eyelids occasionally. Remove any contact lenses after the initial flushing. Continue flushing for at least 15 minutes. Seek medical attention.
Skin contact : Wash off with soap and plenty of water while removing contaminated clothes and shoes. Rinse thoroughly with water. Seek medical attention. Wash contaminated clothing before reuse.
Inhalation : Immediate medical attention is not required. Move to fresh air in case of accidental vapors or decomposition products. Immediately get medical attention if any symptoms exist.
Ingestion : Wash mouth with water and afterwards, drink plenty of water. **DO NOT INDUCE VOMITING.** Get immediate medical attention. **DO NOT GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS OR CONVULSING PERSON.**
- 4.4. **Note to Physician:** Treat as symptoms may be.

SECTION 5: FIREFIGHTING MEASURES

NFPA

Flammability 1

Health 1



Stability and reactivity 0

Physical hazard ACID

- 5.1. **Suitable extinguishing media:** Dry chemical. Carbon dioxide. Water spray. Alcohol resistant foam. Non-combustible. Use extinguishing media appropriate for the surrounding fire.
- 5.2. **Unsuitable extinguishing media:** Not flammable.
- 5.3. **Special hazards arising from the substance or mixture:** Thermal decomposition may result in smoke which may contain harmful combustion products such as carbon monoxide and carbon dioxide among others.
- 5.4. **Advise for firefighters:** Wear self-contained breathing apparatus (SCBA) which are NIOSH/MSHA (approved or equivalent) and full protective gear for firefighting if necessary

SECTION 6: ACCIDENTAL RELEASE MEASURES

- 6.1. **Personal precautions, protective equipment and emergency procedures:** Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Avoid breathing vapors or mist. Use safety glasses and impervious gloves as a minimum for personal protection.
- 6.2. **Environmental precautions:** Prevent spills from entering sewers, waterways, into soil and groundwater systems. Prevent further leakage if safe to do so.
- 6.3. **Methods and material for containment and cleaning:** Dam up the area of accidental release to contain large spills. Mechanically collect spillage in suitable containers for disposal. For small spills, adsorb with inert adsorbent material. Avoid dust formation. Dispose material in accordance with federal, state and local laws.

SECTION 7: HANDLING AND STORAGE

- 7.1. **Precautions for safe handling:** Observe standard industrial hygiene practices. Proper personal protective equipment required while handling this product. Use only in areas provided with appropriate exhaust ventilation. Avoid contact with the eyes and prolonged or repeated skin contact. Avoid breathing mists or vapors.
- 7.2. **Conditions for safe storage, including any incompatibilities:** Store in original container. Keep storage container tightly closed in a well ventilated and dry place. Do not expose the product to excessive heat. Keep out of reach of children. Protect from light.
- 7.3. **Specific end use(s):** Apart from the uses mentioned in Section 1.2, no other specific uses are prescribed.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters:

This product is not known to contain any chemicals with occupational exposure limits established by the region specific regulatory authorities.

- 8.1. **Exposure controls**
- Eye/face protection** : Wear dust and splash proof goggles or safety glasses with side shields as described by OSHA's eye and face protection regulation found in 29 CFR 1910.133
- Skin/body protection** : Use gloves chemically resistant to this product such as those made from butyl or nitrile rubber when prolonged contact with material could occur. Wear impervious clothing.
- Respiratory protection** : Wear suitable personal respiratory protection and protective suit in case of insufficient ventilation or exposure to mist, aerosol or spray.
- 8.2. **Engineering controls** : Adequate ventilation should be ensured. Safety shower and eyewash station should be located in the immediate work place.
- 8.3. **General Hygiene Considerations:** Handle in accordance with good industrial hygiene and safety practices. When using, do not eat, drink or smoke. Regular cleaning of equipment, work area or clothing.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state	Liquid	Specific Gravity (H₂O=1), g/mL	1.24 (at 77 °F)
Appearance	Clear, red	Evaporation Rate (H₂O = 1)	1.0
Odor	Odorless	Odor threshold	No data available
pH (as is)	~1.0	Vapor Pressure, (mm Hg)	16 (at 68 °F; 20 °C)
pH of a 1% solution	Not established	Vapor Density (Air = 1)	0.62
Boiling Point, 760 mmHg	104 °C (219 °F)	Relative density (Air = 1)	Not established
Freezing Point	0 °C (32 °F)	Partition Coefficient	No data available
Decomposition temperature	No data available	Water Solubility	Miscible
Oxidizing properties	No data available	Flammability Limits (solid, gas)	Not applicable to liquids
Viscosity	No data available	Autoignition Temperature	1010 °C (1850 °F), Citric Acid
Flammability/explosive limit	No data available	Flash Point	305 °C (653 °F), Citric Acid

SECTION 10: STABILITY AND REACTIVITY

- 10.1. **Reactivity** : No data available
- 10.2. **Chemical stability** : Stable under recommended storage and handling conditions
- 10.3. **Possibility of hazardous reactions:** Polymerization will not occur
- 10.4. **Conditions to avoid** : Avoid exposing this product to elevated temperatures, sparks and flames.
- 10.5. **Incompatible materials** : Strong oxidizing agents. Amines. Heavy metals. Strong bases.
- 10.6. **Hazardous decomposition products:** None at the recommended storage conditions.

SECTION 11: TOXICOLOGICAL INFORMATION
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Information on toxicological effects

Acute toxicity: No significant toxicity concern posed by oral, dermal and inhalation exposure to this product.

Chemical name	Exposure route	Test specimen	Lethal Dose (LD ₅₀)	Reference
Citric Acid	Oral	Rat	3000 mg/Kg	Literature
	Dermal	Rabbit	500 mg/24 Hour	
	Eye	Rabbit	750 µg/24 Hour	
pH Down™	No test data available			

Chronic effects:

Short-term exposure: Irritating to the eyes. May be harmful if ingested.

Long-term exposure: Repeated exposure may cause permanent tissue damage

Symptoms associated with exposure: Redness, itching, burning (from least to the most severe)

Carcinogenicity : No ingredient of this product in levels $\geq 0.1\%$ is identified and listed by OSHA, ACGIH, NTP, IARC or Mexico as a known or suspected carcinogen

Mutagenic, reproductive, developmental, target organ or neurological effects : No information available.

SECTION 12: ECOLOGICAL INFORMATION

12.1. **Aquatic toxicity**

Chemical Name	Description of ecological effect
Citric Acid	Acute LC ₅₀ = 440 mg/L (48 hour; <i>Leuciscus idus melanotus</i>); Acute EC ₅₀ = 1,535 mg/L (24 hour; Water flea - <i>Daphnia magna</i>)
pH Down™	No test data available

12.2. **Persistence and degradability:** No data available

12.3. **Bioaccumulative potential** : No data available

12.4. **Mobility in soil** : No data available

SECTION 13: DISPOSAL CONSIDERATIONS

- 13.1 **Unused/uncontaminated product** : Contact a licensed: Recycler. Reclaimer. Incinerator.
- 13.2 **Waste disposal methods:** Whenever possible, minimize waste. Waste should be disposed of in accordance with all laws and regulations pertaining to this product in your area of jurisdiction.
- 13.3 **Contaminated packaging:** Decontaminate empty containers. Treat decontamination fluid as waste and dispose as above. You may take the containers for local recycling.
- 13.4 **Physical properties that may affect disposal activities:** pH Down™ doesn't meet RCRA's characteristic definition of ignitability, corrosivity, or reactivity and none of its ingredients are listed in 40 CFR 261.33
- 13.5 **Chemical properties that may affect disposal activities:** Toxicity Characteristic Leaching Procedures (TCLP) has not been performed on pH Down™.

NOTE: All disposal practices must be in compliance with all federal, state/provincial and local laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are solely the responsibility of the waste generator.

SECTION 14: TRANSPORT INFORMATION

International Transport regulations: This product is not covered by the international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).

Domestic Transport regulations: **DOT (USA)** – Not regulated
TDG (Canada) – Not regulated

NOTE: This information is not intended to convey all specific regulatory or operational requirements relating to the transportation of this product. Additional transportation information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of this material.

SECTION 15: REGULATORY INFORMATION**US Federal regulations**

This product is not a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, CFR 1910.1200. This product may be used as a direct food additive under 21 CFR 172.280. This product is also considered as 'Generally Recognized as Safe' (GRAS) according to the FDA.

SARA 313: This product is not known to contain any chemicals at levels subject to the reporting requirements of SARA (1986) Title III, Sections 313

SARA 311/312: Acute health hazard: No
Chronic health hazard: No

SARA 302: This product is not known to contain any chemicals subject to the reporting requirements of SARA (1986) Title III, Sections 302 or Section 304.

15.2. US State regulations

Proposition 65: This product does not contain chemicals listed in the State of California as carcinogens, reproductive toxins at levels requiring a warning under this statute

- 15.3. **Worldwide Chemical Inventory Status** : All the ingredients in this product are listed in USA's TCSA, and Canada's DSL inventories

SECTION 16: OTHER INFORMATION

Prepared by	Preparation date	Revision date	Revision number
Rhomar HTF LLC, dba Rhomar Water	01/01/2014	12/23/2015	3

LEGEND:

<p>CAS : Chemical Abstracts Service</p> <p>TWA : Time Weighted Average</p> <p>IMDG : International Maritime Dangerous Goods</p> <p>WEEL : Workplace Environmental Exposure Limit</p> <p>NTP : National Toxicity Program</p> <p>SARA : Superfund Amendments and Reauthorization Act</p> <p>OSHA : Occupational Safety and Health Administration</p> <p>IARC : International Agency for Research on Cancer</p> <p>NIOSH : National Institute for Occupational Safety and Health</p> <p>ACGIH : American Conference of Government Industrial Hygienists</p>	<p>CFR : Code of Federal Regulations</p> <p>DOT : Department of Transport</p> <p>IATA : International Air Transport Association</p> <p>TDG : Transport of Dangerous Goods</p> <p>DSL : Domestic Substances List</p> <p>OHSA : Occupational Health and Safety Act</p> <p>TCSA : Toxic Substances Control Act</p> <p>MSHA : Mine Safety and Health Administration</p> <p>ADR & RID: European Agreements Concerning International Carriage of Dangerous Goods by Rail and by Road</p>
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