

Section 01: Chemical Product Identification

Domestic Trade Name: PT401HpH Antiscalant

Export Trade Name: PT401HpH Antiscalant

Product Use: Reverse Osmosis Membrane Pretreatment/Antiscalant acidified

Manufacturer/Supplier: AmeriWater, LLC

Address: 3345 Stop 8 Rd, Dayton Ohio, 45414, USA

General Information: 937-461-8833

**Transportation Emergency Number: CHEMTREC: 800-424-9300 (Domestic North America)
703-527-3887 (International, collect calls accepted)**

Synonyms: NA

CAS Number: NA

Section 02: Hazards Identification:

GHS Classification:

Health	Environmental	Physical
<p>Health Hazards: Primary Route of Exposure: Skin contact, eye contact, and inhalation Inhalation: Exposure to spray may cause irritation to the mucous membranes and respiratory system Skin Contact: Exposure to skin can cause irritation Eye contact: Material can cause irritation to eyes Ingestion: Material is not harmful if accidentally ingested Medical Conditions Aggravated by Exposure: None known TLV: Threshold Limit Value - N/A, no danger exists</p>	<p>Acute Toxicity: Mutagenicity: AMES Salmonella Mutagenicity Testing exhibits no evidence of mutagen presence. Oral Toxicity: Rat LD50>100,000 mg/kg Dermal Toxicity: Not absorbed topically Inhalation Toxicity: None known Skin Irritation: Rabbit; No irritation observed Sensitizer: No human repeat insult patch test; Not a sensitizer</p>	<p>Boiling Point: That of Water Vapor Pressure: That of Water Vapor Density: That of Water Water Solubility: Complete Melting/Freezing Point: 32°F Appearance: Clear to light amber Specific Gravity: 1.0 - 1.2 g/ml Percentage Volatile: 70% Evaporation Rate: That of Water pH of Solution: 1.0 – 3.0 Odor: Mild</p>

GHS Label:

Symbols: None

Hazard Statements
Causes mild skin irritation and eye damage.
May cause allergic skin reaction.

Precautionary Statements
Do not eat or drink when using this product.
Do not breathe mist/vapors.
Keep container tightly closed.
Wear protective gloves & eye/face protection.
Use in a well-ventilated area.
Store container tightly closed in cool/well-ventilated place.
Wash thoroughly after handling.

Section 03: Composition / Information on Ingredients

Component	CAS Number
PT401HpH Antiscalant	Non-DOT regulated ingredients (FDA grade weak organic acids and polyelectrolytes).

(See Section 8 for Exposure Limits)

Section 04: First Aid Measures

Eye: Eye irritation. Flush immediately with large amounts of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Get immediate medical attention.

Skin: Itching or irritation of the skin. Immediately flush the skin with plenty of water while removing contaminated clothing and shoes. Wash contaminated clothing before reuse.

Inhalation: For nasal irritation, remove exposed person from source of exposure to fresh air. If not breathing, clear airway and start cardiopulmonary resuscitation (CPR). Get immediate medical attention.

Ingestion: Precautionary measures suggest inducing vomiting immediately by giving two (2) full glasses of water and sticking finger down throat. Never Give Anything by Mouth to an Unconscious Person. Call a physician.

Section 05: Fire Fighting Measures

Suitable Extinguishing Media: Use dry chemical, foam, or carbon dioxide to extinguish fire. Water may be ineffective but should be used to cool fire-exposed containers, structures and to protect personnel. Use water to dilute spills and to flush them away from sources of ignition.

Fire Fighting Procedures: Use media appropriate to primary cause of fire. Use water spray to cool containers exposed to fire. Minimize exposure. Do not breathe fumes. Contain run-off.

Unusual Fire and Explosion Hazards: None known

Combustion Products: May present an explosion hazard under dust loading conditions in excess of 25,000 mg/M³.

Section 06: Accidental Release Measures

Land Spill: Wearing recommended protective clothing and equipment, scoop up. Place waste in approved containers for disposal. Dispose waste according to Federal, State, and local regulations.

Water Spill: Wear protective clothing and equipment. Stop flow. Dike contaminated water and remove for disposal and/or treatment. Notify proper authorities and all downstream users if possible. Dispose of with Solid Waste according to Federal, State, and Local Regulations.

Personal protection: Wear a NIOSH approved (or equivalent) respirator (with an organic/acid gas cartridge and a dust filter) during spill clean up and deactivation of the material. Protective clothing including chemical splash goggles, Latex, nitrile, or buytl rubber full-length gloves, rubber apron made of nitrile or buytl rubber, and rubber overshoes must be worn during spill clean-ups and deactivation of material. If this material comes into contact with the skin during clean-up operations, immediately remove all contaminated clothing and wash exposed skin areas with soap and water. See section 4, First Aid Measures, for further information.

Section 07: Handling and Storage

Handling: Do not get in eyes, on skin or on clothing. Do not breathe vapors or mists. Keep container closed. Use only with adequate ventilation. Use good personal hygiene practices. Wash hands before eating, drinking, smoking. Remove contaminated clothing and clean before re-use.

Storage: The maximum storage temperature for this material is 55°C/131°F. The minimum storage temperature for this material is 0°C/32°F. Store in a well ventilated area. Do not store this material in containers made of steel.

Empty containers may contain toxic, flammable and explosive residue or vapors. Do not cut, grind, drill, or weld on or near containers unless precautions are taken against these hazards.

Section 08: Exposure Control/Personal Protection

Exposure Limits

Engineering Controls: Local exhaust ventilation may be necessary to control air contaminants to their exposure limits. The use of local ventilation is recommended to control emissions near the source. Provide mechanical ventilation for confined spaces.

Personal Protective Equipment (PPE)

Eye Protection: Safety glasses, splash goggles, and/or face shields (ANSI Z87.1 or approved equivalent). Have eye-wash stations available where eye contact can occur.

Skin Protection: Avoid skin contact. Wear gloves impervious to conditions of use. Additional protection may be necessary to prevent skin contact including use of apron, face shield, boots or full body protection. A safety shower should be located in the work area. Recommended protective materials include: Butyl rubber and for limited contact Teflon.

Respiratory Protection: If exposure limits are exceeded, NIOSH approved respiratory protection should be worn. A NIOSH approved respirator for organic vapors is generally acceptable for concentrations up to 10 times the PEL. For higher concentrations, unknown concentrations and for oxygen deficient atmospheres, use a NIOSH approved air-supplied respirator. Engineering controls are the preferred means for controlling chemical exposures. Respiratory protection may be needed for non-routine or emergency situations. Respiratory protection must be provided in accordance with OSHA 29 CFR 1910.134.

Section 09: Physical and Chemical Properties

Boiling Point: Same as Water

Melting/Freezing Point: 0°C / 32°F.

Appearance: Clear to Light Amber Liquid.

Specific Gravity: 1.0 – 1.2 g/ml

Percentage Volatile: 70%

Evaporation Rate: Same as Water

pH of Solution: 1.0 – 3.0

Odor: Mild Odor

Vapor Pressure: Same as Water

Vapor Density: Same as Water

Water Solubility: Complete

Auto ignition Temp: N/A

Flammable Limits: LEL (Lower Explosive Limits) N/A

Section 10: Stability and Reactivity

Stability: Stable under normal storage conditions. See Section 7, Handling and Storage, for specific conditions.

Hazardous Polymerization: Will not occur.

Conditions to Avoid: None Known.

Incompatible Materials: Strong Oxidizing or Reducing Agents.

Hazardous Decomposition Products: None Known.

Section 11: Toxicological Information

Signs and Symptoms of Overexposure: Eye and nasal irritation, headache, dizziness, nausea, vomiting, difficulty breathing, weakness, itching or burning of the skin.

Acute Effects:

Eye Contact: may cause conjunctival irritation.

Skin Contact: may cause reddening or allergic skin reaction.

Inhalation: may cause irritation.

Ingestion: may cause gastrointestinal burns.

Target Organ Effects: None known

Chronic Effects: None known

Medical Conditions Aggravated by Exposure: None known.

Acute Toxicity Values

Acute Toxicity:

Mutagenicity: AMES Salmonella Mutagenicity Testing exhibits no evidence of mutagen presence.

Oral Toxicity: Rat LD50>100,000 mg/kg

Dermal Toxicity: Not absorbed topically

Inhalation Toxicity: None known

Skin Irritation: Rabbit; No irritation observed

Sensitizer: No human repeat insult patch test; Not a sensitizer

Section 12: Ecological Information

Environmental Toxicity:

Acute Fish 96 Hr LC50, Flathead minnow: 750 mg/L, NOEC/LOEC 500/1000

Acute Daphnia 48 Hr EC50: 743 mg/L, NOEC/LOEC 500/1000

Acute Purple sea urchin 40min. IC25 mg/L: >10, NOEC/LOEC 10/>10

Section 13: Disposal Considerations

Incinerate liquid and contaminated solids in accordance with Federal, State, and Local regulations and permits.

Refer to state and local requirements for any additional requirements, as these may be different from Federal laws and regulations. Chemical additions, processing or otherwise altering this material may make waste management information presented in the MSDS incomplete, inaccurate or otherwise inappropriate.

Section 14: Transport Information

U.S. Department of Transportation - USDOT

Proper Shipping Name: PT401HpH Antiscalant

Dot Hazard Class: Not regulated

UN/NA Number: None

Packing Group: None

Labels Required: None

This material safety data sheet reflects information provided by raw material suppliers and other reliable sources.

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International Maritime Organization (IMDG)

Proper Shipping Name: PT401HpH Antiscalant

Hazard Class: Not regulated

UN/NA Number: None

Packing Group: None

Labels Required: None

Section 15: Regulatory Information

U.S. Federal Regulations

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

No reportable quantity (RQ) for this material. If appropriate, immediately report to the National Response Center (800/424-8802) as required by U.S. Federal Law. Also contact appropriate state and local regulatory agencies.

Toxic Substances Control Act (TSCA): All components of this product are included on the TSCA inventory.

Clean Water Act (CWA): PT401HpH Antiscalant is not a hazardous substance under the Clean Water Act. Consult Federal, State and local regulations for specific requirements.

Clean Air Act (CAA): PT401HpH Antiscalant is not a hazardous substance under the Clean Air Act. Consult Federal, State and local regulations for specific requirements.

Superfund Amendments and Reauthorization Act (SARA) Title III Information:

SARA Section 313 Notification (40CFR 372)

This Product Does Not Contain Toxic Chemicals Subject to the Reporting Requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

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

State Regulations

California: This product does not contain any chemicals(s) known to the State of California to cause cancer, birth defects or reproductive harm.

International Regulations

Canadian Environmental Protection Act: All of the components of this product are included on the Canadian Domestic Substances list (DSL).

Canadian Workplace Hazardous Materials Information System (WHMIS): None

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.

European Inventory of Existing Chemicals (EINECS): All of the components of this product are included on EINECS.

EU Classification:

EU Risk (R) and Safety (S) Phrases:

R37/38: Irritating to respiratory system and skin.

R41: Risk of serious damage to eyes.

R43: May cause sensitization by skin contact.

S53: Avoid exposure - obtain special instructions before use.

S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S9: Keep container in a well-ventilated place.

S36/37: Wear suitable protective clothing and gloves.

S57: Use appropriate container to avoid environmental contamination.

Section 16: Other Information

National Fire Protection Association (NFPA) Ratings: This information is intended solely for the use of individuals trained in the NFPA system.

Health: 0

Flammability: 0

Reactivity: 0