



SAFETY DATA SHEET

1. Identification

Product Identifier	TS-TT-1
Other means of Identification	None
Recommended Use	Freeze Protected Toilet Treatment
Recommended Restrictions	None known
Company/Undertaking Identification	Premier Water & Energy Technology, Inc. 11481 Columbia Park Drive, West Jacksonville, FL 32258
Telephone, Fax	904-268-1152, 904-268-6851
Emergency Telephone	800-255-3924, Chemtel, Inc.

2. Hazard(s) Identification

Physical Hazards	Not classified
Health Hazards	Not classified
Environmental Hazards	Not classified
OSHA Defined Hazards	Not classified

Label Elements

Signal Word	None
Hazard Statement	None
Precautionary Statement	None

Hazard(s) Not Otherwise Classified (HNOC)	None known.
Supplemental Information	None.

3. Composition/Information on Ingredients

Chemical Name	Common Name and Synonyms	CAS Number	%
Quaternary Ammonium Chloride		68424-85-1	< 5

Mixtures

4. First-aid Measures

Inhalation	Not a expected route of exposure. Remove to fresh air if inhaled.
Skin contact	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse.
Eye contact	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 15 minutes. Get medical attention if irritation occurs.

Ingestion Drink plenty of water to dilute. Do not induce vomiting. Get medical attention if irritation persists.

Most important symptoms/effects, acute and delayed None known.

Indication of immediate medical attention and special treatment needed All treatment should be based on observed signs and symptoms of distress in the patient.

5. Fire-fighting Measures

Suitable extinguishing media	Water spray. Foam. Dry chemical. Carbon dioxide (CO ₂).
Unsuitable extinguishing media	Do not use direct water stream. This will spread the fire.
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire fighting equipment/instructions	Do not release runoff from fire control to waterways. Wear appropriate protective equipment. Avoid breathing fumes or dust.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	No unusual fire or explosion hazards noted.

6. Accidental Release Measures

Personal precautions, protective equipment, and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Recover usable material if possible. Do not allow to enter waterways.
Methods and materials for containment and cleaning up	Large Spills: Dike spill and pump into recovery drum. Small Spills: Absorb with clay or sand and sweep up into recovery drum.
Environmental precautions	Avoid discharge into drains, water courses or onto the ground.

7. Handling and Storage

Precautions for safe handling	After handling product, always wash hands and face thoroughly before eating, drinking and smoking. Avoid contact with eyes.
Conditions for safe storage, including any incompatibilities	Keep containers closed when not in use. Do not store in steel containers.

8. Exposure Controls/Personal Protection

Biological Limit Values	No biological exposure limits noted for the ingredient(s).
Appropriate engineering controls	Normal plant ventilation is usually adequate for liquid product.
Individual protection measures, such as personal protective equipment	
Eye/Face Protection	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.

Skin Protection/ Hand Protection	Impervious gloves during manual handling of product. Normal protective workers clothing. Safety glasses with side-shields or tight fitting google. Wash hands after handling.
Other	None
Respiratory Protection	None required at ambient temperature.

9. Physical and Chemical Properties

Appearance	
Color	Blue
Physical State	Liquid
Odor	Wintergreen
Odor Threshold	Not available
pH (concentrated product)	6.0 – 7.5
pH in Aqueous Solution	Not available
Melting Point/Freezing Point	< 0 °F
Initial Boiling Point and Boiling Range	> 212°F
Flash Point	> 200°F
Evaporation Rate	Not available
Flammability (solid, gas)	Not applicable
Upper/Lower Flammability or Explosive limits	
Flammability Limit – lower (%)	Not available
Flammability Limit – upper (%)	Not available
Explosive Limit – lower (%)	Not available
Explosive Limit – upper (%)	Not available
Vapor Pressure	Not available
Vapor Pressure Temp.	Not available
Vapor Density	Not available
Relative Density	Not available
Relative Density Temperature	Not available
Solubility(ies)	
Solubility (water)	Complete
Partition Coefficient (n-octanol/water)	Not available
Auto-ignition Temperature	Not available
Decomposition Temperature	Not available
Viscosity	As water
Viscosity Temperature	Not available
Other Information	
Percent Volatile	Not available
Density	~9.43 lbs/gal
Specific Gravity	~1.13
Explosive properties	Not explosive
Flammability class	Not available

10. Stability and Reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage, and transport. Stable between -25°F and 212°F.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Excessive heat or cold.
Incompatible materials	Strong acids, and oxidizers. Black iron.
Hazardous decomposition products	When combusted, oxides of carbon and nitrogen.

11. Toxicological Information

Information on likely routes of exposure

Inhalation	May irritate respiratory system.
Skin contact	May irritate skin.
Eye contact	May irritate eyes.
Ingestion	Can irritate mouth and throat.

Information on toxicological effects

Acute toxicity	Not known.
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12. Ecological Information

Ecotoxicity	Not determined.
Persistence and degradability	Not determined.
Bioaccumulative Potential	Not determined.
Mobility in Soil	Not determined.
Other Adverse Effects	Not determined.

13. Disposal Considerations

Disposal Instruction	Landfill or incinerate in accordance with all applicable regulations.
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Local Disposal Regulations	Dispose in accordance with all applicable regulations.
Hazardous Waste Code	The waste code should be assigned in discussion between the user, the producer, and the waste disposal company. Does not meet RCRA criteria for being listed as hazardous waste.
Waste from Residues/Unused Products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Containers should be cleaned of residual product. Dispose of in accordance with all applicable regulations.

14. Transport Information

DOT	
UN number	Not regulated under DOT
UN Proper Shipping Name	Not available
Transport Hazard Class(es)	
Class	Not available
Subsidiary Risk	-
Packing Group	Not available
Special Precautions per User	Not available
ERG Number	Not available
DOT information on packaging may be different from that listed.	

15. Regulatory Information

US Federal Regulations	This product is not classified as a hazardous waste under RCRA.
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TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

All components of this product are listed on the TSCA inventory list.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not regulated

SARA 304 Emergency release notification

Not regulated

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not Listed

SARA 311/312 Hazardous chemical

Delayed Health Hazard.

SARA 313 (TRI reporting)

NA

Other federal regulations
Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

This product contains no chemicals listed under the CWA.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

This product contains no chemicals that are listed under the CAA.

Safe Drinking Water Act (SDWA)

Not Regulated

Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number

Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

DEA Exempt Chemical Mixtures Code Number

US State Regulations

US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)

Not Listed

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

Not Listed

US. Massachusetts RTK - Substance List

Not Listed

US. New Jersey Worker and Community Right-to-Know Act

Not Listed

US. Pennsylvania Worker and Community Right-to-Know Law

Not Listed

US. Rhode Island RTK

Not Listed

US. California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

16. Other Information, including date of preparation or last revision

Issue date 11-10-2021

Revision date 11-10-2021

Version # 1

List of abbreviations

CAS: Chemical Abstract Service Registration Number

ACGIH: American Conference of Governmental Industrial Hygienists

TWA: Time Weighted Average

STEL: Short Term Exposure Limit

LD50: Lethal Dose, 50%

LC50: Lethal Concentration, 50%

NOEL: No Observed Effect Level

COD: Chemical Oxygen Demand

BOD: Biochemical Oxygen Demand

TOC: Total Organic Carbon

IMDG: International Maritime Dangerous Goods Code

NFPA: National Fire Protection Association

TLV: Threshold Limit Value

TSRN indicates a Trade Secret Registry Number is used in place of the CAS number.

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information, and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal, and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.