SAFETY DATA SHEET

PWT 45L

1 PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: PWT 45L
Common Name: Mixture
SDS Number: 0238
Product Code: PT0014
Revision Date: 10/10/2019
Version: 1
Product Use: Potable Water Treatment

Supplier Details: U.S. Water, a Kurita company
12270 43rd St. NE
St. Michael, MN 55376

Contact: Non-emergency #: 866-663-7632
Email: SDS@uswaterservices.com
Web: www.uswaterservices.com

EMERGENCY RESPONSE: (ChemTel)
US & Canada: 800-255-3924
International: +01-813-248-0585

2 HAZARDS IDENTIFICATION

Classification of the Substance or Mixture

GHS Classification in Accordance with 29 CFR 1910 (OSHA HCS):

Health, Skin corrosion/irritation, 2
Health, Serious Eye Damage/Eye Irritation, 2 A
Environmental, Hazards to the aquatic environment - Chronic, 2

GHS Label Elements, Including Precautionary Statements

GHS Signal Word: WARNING

GHS Hazard Pictograms:

GHS Hazard Statements:

H315 - Causes skin irritation
H319 - Causes serious eye irritation
H411 - Toxic to aquatic life with long lasting effects

GHS Precautionary Statements:

P264 - Wash thoroughly after handling.
P273 - Avoid release to the environment.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, present and easy to do. Continue rinsing.
P337 + P313 - If eye irritation persists: Get medical advice/attention.
P302 + P352 - IF ON SKIN: Wash with plenty of water and water.
P332 + P313 - If skin irritation occurs: Get medical advice/attention.

P362 - Take off contaminated clothing and wash before reuse.
P391 - Collect spillage.
P501 - Dispose of contents and container in accordance with local and national regulations.

Hazards not Otherwise Classified (HNOC) or not Covered by GHS

PPE recommendation is advisory only and based on typical use conditions. An industrial hygienist or safety officer familiar with the specific situation of anticipated use must determine actual PPE required when using this product (29 CFR 1910.132)

3 COMPOSITION/INFORMATION OF INGREDIENTS

Chemical Ingredients:

CAS#	%	Chemical Name:
7732-18-5	60-80%	Water
Proprietary	10-30%	Inorganic Phosphates
7646-85-7	1-5%	Zinc chloride

The exact concentration is being withheld as a trade secret.

4 FIRST AID MEASURES

Inhalation: Remove victim to fresh air. If breathing is difficult have qualified person administer oxygen. Get medical attention if symptoms develop.

Skin Contact: Remove contaminated clothing and wash skin thoroughly with soap and water. Get medical attention if irritation persists. Launder clothing before re-use. Discard items like shoes that cannot be thoroughly decontaminated.

Eye Contact: Flush victim's eyes with large quantities of water for several minutes, holding the eyelids apart. Get medical attention if irritation occurs and persists.

Ingestion: Do not induce vomiting. Rinse mouth with water and give one glass of water to drink. Get medical attention if symptoms develop.

Most important symptoms & effects (acute & delayed)**:** Causes severe eye irritation. May cause skin irritation. Inhalation of mists may cause mucous membrane and respiratory irritation and possibly nasal ulceration. May be harmful if swallowed. Prolonged inhalation exposure by inhalation may cause lung damage.

Indication of need for immediate medical attention: Immediate medical attention should not be required.

Special treatment needs: No data available

5 FIRE FIGHTING MEASURES

Extinguishing Media:

Suitable: Use media appropriate for surrounding fire. Cool fire exposed containers and structures with water.

Unsuitable: No information available

Hazardous combustion products: Aqueous solutions may cause surfaces to be extremely slippery and cause a slip hazard. Thermal decomposition may yield oxides of phosphorus, potassium and zinc, zinc chloride fumes and hydrogen chloride.

Unusual Fire or Explosion Hazards: None known

Special protective equipment/precautions: Firefighters should wear positive pressure self-contained breathing apparatus and full protective clothing.

6 ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective equipment, emergency procedures: Evacuate spill area and keep unprotected personnel away. Wear appropriate protective clothing as described in Section 8. Aqueous solutions may cause surfaces to be extremely slippery and cause a slip hazard. Prevent spill from entering sewers or natural waterways.
Environmental Precautions: Keep runoff from entering drains or waterways
Spill/Leak procedures: Dike and collect liquid or absorb with an inert absorbent and place in appropriate containers for disposal. Prevent spill from entering sewers and water courses. Report releases as required by local, state and federal authorities.
Regulatory Requirements: Dispose of recovered material in accordance with all applicable state and federal regulations.

7 HANDLING AND STORAGE

Handling Precautions: Avoid contact with the eyes, skin and clothing. Avoid breathing mists or aerosols. Wear protective clothing and equipment as described in Section 8. Use with adequate ventilation. Wash thoroughly with soap and water after handling. Keep containers closed when not in use.
Do not reuse containers. Empty containers retain product residues can be hazardous. Follow all SDS precautions when handling empty containers.

Storage Requirements: Store in a cool, dry, well ventilated area away from incompatible materials. Protect from physical damage.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: Use with adequate general or local exhaust ventilation to maintain exposure levels below the occupational exposure limits.

Personal Protective Equipment: Respiratory Protection: In operations where exposure levels are exceeded, a NIOSH approved respirator with dust/mist cartridges or supplied air respirator appropriate for the form and concentration of the contaminants should be used. Selection and use of respiratory equipment must be in accordance with OSHA 1910.134 and good industrial hygiene practice.
Skin Protection: Wear impervious gloves such as rubber or neoprene to avoid skin contact.
Eye Protection: Safety goggles recommended.
Other: Long-sleeved clothing and long pants recommended to avoid prolonged skin contact. Suitable washing facilities should be available in the work area.

Exposure Limits:

Inorganic Phosphates	None Established
Zinc Chloride (fume)	1 mg/m3 TWA, 2 mg/m3 STEL ACGIH TLV 1 mg/m3 TWA OSHA PEL

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear, Colorless		
Physical State:	Liquid	**Odor:**	Little to no odor
Odor Threshold:	Not established	**Solubility:**	Soluble
Spec Grav./Density:	1.3 - 1.38 / 10.84 - 11.51 lb/gal	**Freezing/Melting Pt.:**	Not applicable
Viscosity:	Not Determined	**Flash Point:**	No Determined
Boiling Point:	>100°C / >212°F	**Vapor Density:**	Same as Water
Flammability:	Not applicable	**VOC:**	0%
Partition Coefficient:	Not Determined	**Auto-Ignition Temp:**	Not Determined
Vapor Pressure:	Same as water	**UFL/LFL:**	Not Determined
pH:	9.5 - 11.5		
Evap. Rate:	Same as water		
Decomp Temp:	Not Determined		

10 STABILITY AND REACTIVITY

Reactivity:	Not normally reactive.
Chemical Stability:	Stable under normal storage and handling conditions.
Conditions to Avoid:	None known.
Materials to Avoid:	Strong acids, cyanides, sulfides.
Hazardous Decomposition:	When heated to decomposition emits toxic oxides of phosphorus, potassium and zinc, zinc chloride fumes and hydrogen chloride.
Hazardous Polymerization:	None known.

11 TOXICOLOGICAL INFORMATION

HEALTH HAZARDS:
Ingestion: Ingestion may cause mucous membrane and gastrointestinal irritation with nausea, vomiting, and diarrhea.
Inhalation: Inhalation of mists may cause irritation of the nose throat and upper respiratory tract. High concentrations may cause lung damage (pulmonary edema).
Eye: May cause severe irritation with pain and tearing. Corneal damage is unlikely.
Skin: May cause irritation.
Sensitization: This material is not known to cause sensitization.
Chronic: Repeated exposure to zinc chloride may cause dermatitis, boils, eye conjunctivitis and gastrointestinal disturbances. Prolonged inhalation exposure to mists or fumes may cause lung damage.
Carcinogenicity: None of the components is listed as a carcinogen or suspected carcinogen by IARC, NTP or OSHA.
Germ Cell Mutagenicity: None currently known.
Reproductive Toxicity: None currently known.

Numerical Measures of Toxicity:
Calculate ATEmix: Oral LD50 >2000 mg/kg
Inorganic Phosphate: Oral rat LD50 - >1000 mg/kg; Dermal rabbit LD50- >4640 mg/kg.
Zinc Chloride: Oral rat LD50 - 350 mg/kg

12 ECOLOGICAL INFORMATION

Ecotoxicity:
Zinc Chloride: 48 hr LC50 Daphnia magna- 0.798 mg/L; 96 hr LC50 Bluegill sunfish - 4.2 mg/L; 96 hr LC50 rainbow trout - 0.136 mg/L.

This product is classified as toxic to the aquatic environment with long-term adverse effects. Releases to the environment should be avoided.

Persistence and Degradability: No data available.
Bioaccumulative Potential: No data available
Mobility in Soil: No data available
Other Adverse Effects: None known

13 DISPOSAL CONSIDERATIONS

Dispose in accordance with local, state and federal environmental regulations.

14 TRANSPORT INFORMATION

Proper Shipping Name: Non Regulated

15 REGULATORY INFORMATION

[%] RQ (CAS#) Substance - Reg Codes

[60-80%] Water (7732-18-5) TSCA

[10-30%] Proprietary (0)

[1-5%] RQ(1000LBS), Zinc chloride (7646-85-7) CERCLA, CSWHS, EPCRAWPC, MASS, OSHAWAC, PA, SARA313, TSCA, TXAIR

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

Regulatory Code Legend

RQ = Reportable Quantity
TSCA = Toxic Substances Control Act
CERCLA = Superfund clean up substance
CSWHS = Clean Water Act Hazardous substances
EPCRAWPC = EPCRA Water Priority Chemicals
MASS = MA Massachusetts Hazardous Substances List
OSHAWAC = OSHA Workplace Air Contaminants
PA = PA Right-To-Know List of Hazardous Substances
SARA313 = SARA 313 Title III Toxic Chemicals
TXAIR = TX Air Contaminants with Health Effects Screening Level

TSCA: All components of this product are listed (or are not required to be listed) in the TSCA inventory
EPA / CERCLA / SARA TITLE III:
Extremely Hazardous Substance (SARA 302/304): This product does not contain any extremely hazardous substances subject to emergency planning requirements.
SARA 312: Acute
RCRA: No data available

16 OTHER INFORMATION

Author: U.S. Water, a Kurita company

Revision Notes: NA

Disclaimer:
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Revision Date: 10/10/2019