



PURIFY

SAFETY DATA SHEET

WUC 100

I. IDENTIFICATION

Product Name:
WUC 100

Synonym: N/A

Recommendations / Restrictions on Use:
Use only for proper and legal purposes.
Use as water treatment chemical.

Distributor: Purify
1707 Townhurst Drive
Houston, TX 77043

Phone: 713-463-1929

Website: www.purifywt.com

Emergency Contact: 1-800-424-9300 (CHEMTREC)

II. HAZARDS IDENTIFICATION

Classifications:

Corrosive to Metals, Category 1
Skin Corrosion, Category 1C
Eye Damage, Category 1
Acute Toxicity, Category 4
Specific Target Organ Toxicity
Single Exposure (Irritation), Category 3
Aquatic Acute Toxicity, Category 1
Aquatic Chronic Toxicity, Category 1

Precautionary Statements:

Prevention:

Keep in original container.
Do not breathe mist, vapors, or spray.
Wash thoroughly after handling.
Do not eat, drink, or smoke when using this product.
Use only outdoors or in a well-ventilated area.
Store in a well-ventilated place. Keep container tightly closed and locked up. Store in a corrosive-resistant container with a resistant inner liner.
Avoid release to the environment.
Wear protective gloves, protective clothing, eye protections, and face protection.

Hazard Statements:

May be corrosive to metals.
Harmful if swallowed.
Causes severe skin burns and eye damage.
May cause respiratory irritation.
Very toxic to aquatic life with long-lasting effects.

Contains:

Zinc chloride and orthophosphoric acid.

Signal Word: Danger

Symbols:



Response:

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing.
Immediately call a POISON CENTER or doctor.
Wash contaminated clothing before reuse.
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
Absorb and collect spillage to prevent material damage.
Dispose of contents and container in accordance with local and national regulations.

III. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	%	The exact concentration is being withheld as a trade secret.
Water	7732-18-5	50-80	
Zinc Chloride	7646-85-7	10-30	
Orthophosphoric Acid	7664-38-2	10-20	

IV. FIRST AID MEASURES

Eyes:	Immediately flush eyes with running water for at least 20 minutes, keeping eyelids open. Remove any contact lenses. Get immediate medical attention.	Most important symptoms: Causes severe irritation and burns to eyes and skin. Inhalation of mists may cause mucous membrane and respiratory irritation and possibly nasal ulceration. May be harmful or fatal if swallowed. Prolonged inhalation exposure to mists or fumes may cause lung damage. Immediate medical attention: Immediate medical attention required for all routes of exposure.
Skin:	Immediately remove contaminated clothing and wash exposed area thoroughly with soap and water for at least 30 minutes. Get immediate medical attention. Launder clothing before reuse, and discard contaminated shoes.	
Inhalation:	Move to fresh air immediately. If breathing is difficult, give oxygen. If breathing has stopped, administer artificial respiration. Get immediate medical attention.	
Ingestion:	If swallowed, DO NOT induce vomiting. If conscious, give large quantities of water. Never give anything by mouth to an unconscious or convulsing person. Get immediate medical attention.	

V. FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Use extinguishing media appropriate for surrounding fire. Cool fire-exposed containers and structures with water.	NFPA Hazard Rating: Health (Blue): 3 Fire (Red): 0 Reactivity (Yellow): 0 Special Instructions (White): None
Specific Hazards Arising from the Chemical: Non-combustible: substance itself does not burn but may decompose upon heating to produce hazardous combustion products. Aqueous solutions may cause surfaces to be extremely slippery and cause a slip hazard. Orthophosphoric acid may react with metals to liberate flammable hydrogen gas. Thermal decomposition may yield oxides of phosphorous and zinc, zinc chloride fumes, and hydrogen chloride.	NFPA Hazard Classification: 0=Least 1=Slight 2=Moderate 3=High 4=Extreme
Special Protective Equipment and Firefighter Precautions: Firefighters should wear positive pressure self-contained breathing apparatus and full protective clothing. Contain water used in firefighting from entering sewers or natural waterways.	Explosion Data (sensitivity to mechanical impact or static discharge): None known.

VI. ACCIDENTAL RELEASE MEASURES

Procedures if Released:	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. Avoid releases to the environment.
Containment / Cleaning:	Dike and contain liquid. Carefully neutralize with soda ash. Exercise caution during neutralization since large amounts of heat may be generated. Collect neutralized liquid 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.

VII. HANDLING AND STORAGE

Precautions for Safe Handling: Prevent 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.

Always add acid to water, not water to acid. Adding water to acid generates heat and will cause dangerous boiling and splashing.

Do not reuse containers. Empty containers retain product residues and can be hazardous. Follow all SDS precautions when handling empty containers.

Conditions for Safe Storage: Store in a cool, dry, well-ventilated area away from incompatible materials. Protect from physical damage. Keep in original container.

VIII. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines:

Zinc Chloride: 1 mg/m³ TWA,
2 mg/m³ STEL ACGIH TLV
1 mg/m³ TWA OSHA PEL

Orthophosphoric Acid: 1 mg/m³ TWA,
3 mg/m³ STEL ACGIH TLV
1 mg/m³ TWA OSHA PEL

HMIS Rating:

Health (Blue): 3
Flammability (Red): 0
Physical Hazard (Yellow): 0
PPE (White): See PPE

Hazard Classification:

0=Minimal 1=Slight 2=Moderate 3=Serious 4=Severe

Engineering Controls: Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit values.

INDIVIDUAL PROTECTION MEASURES:

Respiratory: 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: Wear impervious gloves such as rubber or neoprene to avoid skin contact.

Eye: Safety goggles and face shield recommended.

Other Protective Items: Long-sleeved clothing and long pants recommended to avoid prolonged skin contact. Suitable washing facilities should be available in the work area.

General Hygiene: Practice good personal hygiene after using this material, especially before eating, drinking, smoking, or using the toilet.

IX. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid	pH:	< 1
Appearance:	Clear and colorless	Solubility in Water:	Soluble
Odor:	Slight	Odor Threshold:	Not established
Vapor Density:	Same as water	Vapor Pressure:	Same as water
Boiling Point:	~ 212°F / 100°C	Freezing/Melting Point:	Not applicable
Evaporation Rate:	Same as water	Relative Density:	1.21 - 1.29
VOC Content:	0%	Octanol / Water	< 1
Lower Explosive Limit:	Not applicable	Upper Explosive Limit:	Not applicable
Flash Point:	Not applicable	Autoignition Temperature:	Not applicable

X. STABILITY AND REACTIVITY

Reactivity:	Not normally reactive.
Chemical Stability:	Stable under normal storage and handling conditions.
Hazardous Reactions:	Orthophosphoric acid may react with metals to liberate flammable hydrogen gas. Orthophosphoric acid may also corrode some metals.
Conditions to Avoid:	None known.
Incompatible Materials:	Strong bases, strong oxidizing agents, strong reducing agents, fluorine, metals, sulfur trioxide, phosphorus pentoxide, cyanides, sulfides.
Hazardous Decomposition Products:	When heated to decomposition emits toxic oxides of phosphorus and zinc, zinc chloride fumes and hydrogen chloride.

XI. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure: Eyes, Skin, Ingestion, and Inhalation	Carcinogenicity: NPT: Not listed. IARC: Not listed. OSHA: Not regulated.
Symptoms of Exposure: Eye Contact: Causes serious eye damage. Ingestion: May be harmful if swallowed. Skin Contact: May cause skin irritation. Inhalation: May be harmful if inhaled. May cause respiratory tract irritation.	Germ Cell Mutagenicity: None currently known. Reproductive Toxicity: None currently known.
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.	
Numerical Measures of Toxicity: Zinc Chloride: Oral rat LD50 - 350 mg/kg Orthophosphoric acid: Oral rat LD50 - 1530 mg/kg; Inhalation rat LC50- >850 mg/m ³ /1Hr; Skin rabbit LD50- 2740 mg/kg	

XII. 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 Orthophosphoric Acid: 96 hr LC50 Mosquitofish - 138 mg/L	Persistence and Degradability: No data available. Bioaccumulative Potential: No data available. Mobility in Soil: No data available. Other Adverse Effects: None known.
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This product is classified as very toxic to the aquatic environment with long-term adverse effects. Releases to the environment should be avoided.

XIII. DISPOSAL CONSIDERATIONS

Waste Disposal: Always dispose of material in accordance with local, state, and federal regulations.

XIV. TRANSPORT INFORMATION

Proper Shipping Name: Corrosive Liquid, Acidic, Inorganic, n.o.s. (Phosphoric Acid, Zinc Chloride)

DOT Classification: 8 **Packing Group:** 3

Identification Number: UN3264 **Other Labels:** Corrosive

Note: If RQ for Zinc Chloride is exceeded, the following should be used: UN3264, Corrosive liquid, acidic, inorganic, n.o.s. (Phosphoric Acid, Zinc Chloride), 8, PGIII RQ

XV. REGULATORY INFORMATION

CERCLA: Releases above the reportable quantity of 3,333 lbs (based on the RQ of 1,000 lbs for Zinc Chloride present at 10-30%) must be reported to the National Response Center. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

SARA Hazard Category: Acute Health
(311/312)

SARA 313: This product contains the following chemicals subject to Annual Release Reporting Requirements Under SARA Title III, Section 313 (40 CFR 372):
Zinc chloride (zinc compound) 10-30%.

EPA TSCA Inventory: All of the ingredients in this product are listed on the EPA TSCA Inventory.

CANADA: This product has been classified under the CPR and this SDS discloses information elements required by the CPR.

Canadian CEPA: All the components of this product are listed on the Canadian DSL.

XVI. OTHER INFORMATION

Revision Notes: Rev. 07/12/2019



PURIFY

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Houston, TX 777043
713-463-1929
www.purifywt.com

24 Hour Emergency Phone: 1-800-424-9300

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