

# Safety Data Sheet

Issue Date: 10-Jan-2023

Revision Date: 10-Jan-2023

Version 1

## 1. IDENTIFICATION

### Product identifier

**Product Name** PristineCheck®

### Other means of identification

**SDS #** RWS-004

### Recommended use of the chemical and restrictions on use

**Recommended Use** For industrial use.

### Details of the supplier of the safety data sheet

#### **Supplier Address**

Rec. Water Solutions, LLC  
903 N 47th Street, Suite 105  
Rogers, AR 72756

### Emergency telephone number

**Company Phone Number** 1-800-962-1492  
**Emergency Telephone** INFOTRAC 1-352-323-3500 (International)  
1-800-535-5053 (North America)

## 2. HAZARDS IDENTIFICATION

**Appearance** Clear colorless liquid

**Physical state** Liquid

### Classification

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 1

### Signal Word

**Danger**

### Hazard statements

Causes skin irritation  
Causes serious eye damage



### Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling  
Wear protective gloves/protective clothing/eye protection/face protection

### Precautionary Statements - Response

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
Immediately call a poison center or doctor/physician  
IF ON SKIN: Wash with plenty of water and soap  
Take off contaminated clothing and wash before reuse  
If skin irritation occurs: Get medical advice/attention

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No	Weight-%
1-hydroxy ethylidene-1,1-diphosphonic acid (HEDP)	2809-21-4	6.9
Other ingredients	Proprietary	93.1

\*\*If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.\*\*

### 4. FIRST AID MEASURES

#### Description of first aid measures

<b>Eye Contact</b>	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor/physician.
<b>Skin Contact</b>	Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention.
<b>Inhalation</b>	Remove to fresh air.
<b>Ingestion</b>	Clean mouth with water and drink afterwards plenty of water.

#### Most important symptoms and effects, both acute and delayed

<b>Symptoms</b>	Causes skin irritation. Causes serious eye damage.
-----------------	--

#### Indication of any immediate medical attention and special treatment needed

<b>Notes to Physician</b>	Treat symptomatically.
---------------------------	------------------------

### 5. FIRE-FIGHTING MEASURES

#### Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable Extinguishing Media** Water applied directly could result in spattering of low pH solution.

#### Specific Hazards Arising from the Chemical

Not determined.

**Hazardous combustion products** Products of combustion may be toxic, may also produce oxides of phosphorus.

#### Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

### 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

<b>Personal Precautions</b>	Keep unnecessary people away, isolate hazard area and deny entry.
-----------------------------	---

#### Environmental precautions

<b>Environmental precautions</b>	See Section 12 for additional Ecological Information.
----------------------------------	---

**Methods and material for containment and cleaning up**

<b>Methods for Containment</b>	Dike and contain spill with inert material (sand, earth, etc).
<b>Methods for Clean-Up</b>	Transfer solids and liquids into separate containers for recovery or disposal. Flush area completely with water.

**7. HANDLING AND STORAGE****Precautions for safe handling**

<b>Advice on Safe Handling</b>	Do not use with materials or equipment sensitive to corrosive solutions. Wash face, hands and any exposed skin thoroughly after handling. Wear protective gloves/protective clothing and eye/face protection.
--------------------------------	---

**Conditions for safe storage, including any incompatibilities**

<b>Storage Conditions</b>	Avoid storage in excessive heat; expansion of container may occur creating spillage. Do not store in galvanized or nylon equipment. Keep containers tightly closed.
<b>Incompatible Materials</b>	Avoid contact with strong oxidizing agents. Strong bases. Strong reducing agents.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

<b><u>Exposure Guidelines</u></b>	This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies
-----------------------------------	--

**Appropriate engineering controls**

<b>Engineering Controls</b>	Showers. Eyewash stations. Ventilation systems.
-----------------------------	---

**Individual protection measures, such as personal protective equipment**

<b>Eye/Face Protection</b>	Wear eye/face protection.
<b>Skin and Body Protection</b>	Wear long-sleeved shirt, long pants, and shoes plus socks. Chemical resistant protective gloves.
<b>Respiratory Protection</b>	Refer to 29 CFR 1910.134 for respiratory protection requirements.
<b>General Hygiene Considerations</b>	Handle in accordance with good industrial hygiene and safety practice.

**9. PHYSICAL AND CHEMICAL PROPERTIES****Information on basic physical and chemical properties**

<b>Physical state</b>	Liquid	<b>Odor</b>	Not determined
<b>Appearance</b>	Clear colorless liquid	<b>Odor Threshold</b>	Not determined
<b>Color</b>	Colorless		

<b><u>Property</u></b>	<b><u>Values</u></b>	<b><u>Remarks • Method</u></b>
<b>pH</b>	(1% v/v) = 2.1 +/- 0.05	
<b>Melting point / freezing point</b>	28°F	
<b>Boiling point / boiling range</b>	Not determined	
<b>Flash point</b>	Not determined	
<b>Evaporation Rate</b>	Not determined	
<b>Flammability (Solid, Gas)</b>	Liquid-Not applicable	

**Flammability Limit in Air**

**Upper flammability or explosive limits** Not determined

**Lower flammability or explosive limits** Not determined

**Vapor Pressure** Not determined

**Vapor Density** Not determined

**Relative Density** 1.07 +/- 0.01

**Water Solubility** Completely soluble

**Solubility in other solvents** Not determined

**Partition Coefficient** Not determined

**Autoignition temperature** Not determined

**Decomposition temperature** Not determined

**Kinematic viscosity** Not determined

**Dynamic Viscosity** Not determined

**Explosive Properties** Not determined

**Oxidizing Properties** Not determined

## 10. STABILITY AND REACTIVITY

**Reactivity**

Not reactive under normal conditions.

**Chemical stability**

Stable under recommended storage conditions.

**Possibility of hazardous reactions**

None under normal processing.

**Hazardous Polymerization** Will not occur.

**Conditions to Avoid**

Avoid mixing with other chemicals.

**Incompatible materials**

Avoid contact with strong oxidizing agents. Strong bases. Strong reducing agents.

**Hazardous decomposition products**

May produce toxic vapors and/or fumes (oxides of carbon, oxides of phosphorus or phosphines).

## 11. TOXICOLOGICAL INFORMATION

**Information on likely routes of exposure****Product Information**

**Eye Contact** Avoid contact with eyes.

**Skin Contact** Avoid contact with skin.

**Inhalation** Do not inhale.

**Ingestion** Do not ingest.

**Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
1-hydroxy ethylidene-1,1-diphosphonic acid (HEDP) 2809-21-4	= 1340 mg/kg ( Rat )	> 10000 mg/kg ( Rabbit )	-

**Symptoms related to the physical, chemical and toxicological characteristics**

**Symptoms** Please see section 4 of this SDS for symptoms.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Skin corrosion/irritation** Causes skin irritation.

**Serious eye damage/eye irritation** Causes serious eye damage.

**Carcinogenicity** Based on the information provided, this product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

**Numerical measures of toxicity**

The following values are calculated based on chapter 3.1 of the GHS document

**Oral LD50** >2,000 mg/kg

**Dermal LD50** >2,000 mg/kg

**ATEmix (inhalation-dust/mist)** >5 mg/L

**12. ECOLOGICAL INFORMATION****Ecotoxicity**

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

**Component Information**

Chemical name	Algae/aquatic plants	Fish	Crustacea
1-Hydroxyethylidene-1,1-diphosphonic acid (HEDP) 2809-21-4		360: 96 h Oncorhynchus mykiss mg/L LC50 static 868: 96 h Lepomis macrochirus mg/L LC50 static	527: 48 h Daphnia magna mg/L EC50

**Persistence/Degradability**

Not determined.

**Bioaccumulation**

There is no data for this product.

**Mobility**

Chemical name	Partition coefficient
1-hydroxy ethylidene-1,1-diphosphonic acid (HEDP) 2809-21-4	3.49

**Other Adverse Effects**

Not determined

**13. DISPOSAL CONSIDERATIONS****Waste Treatment Methods**

**Disposal of Wastes** Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Contaminated Packaging** Disposal should be in accordance with applicable regional, national and local laws and regulations.

**14. TRANSPORT INFORMATION****Note**

Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

**DOT** Not regulated

**IATA** Not regulated

**IMDG** Not regulated

## 15. REGULATORY INFORMATION

### **International Inventories**

Chemical name	TSCA	TSCA Inventory Status	DSL/NDSL	EINECS/ELINCS	ENCS	IECSC	KECL	PICCS	AICS
1-hydroxy ethylidene-1,1-diphosphonic acid (HEDP)	X	ACTIVE	X	X	X	X	X	X	X

#### **Legend:**

*TSCA - United States Toxic Substances Control Act Section 8(b) Inventory*

*DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List*

*EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances*

*ENCS - Japan Existing and New Chemical Substances*

*IECSC - China Inventory of Existing Chemical Substances*

*KECL - Korean Existing and Evaluated Chemical Substances*

*PICCS - Philippines Inventory of Chemicals and Chemical Substances*

*AICS - Australian Inventory of Chemical Substances*

### **US Federal Regulations**

#### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355).

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

#### **CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

### **US State Regulations**

#### **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

#### **U.S. State Right-to-Know Regulations**

This product does not contain any substances regulated under applicable state right-to-know regulations

**16. OTHER INFORMATION**

<b><u>NFPA</u></b>	<b>Health Hazards</b>	<b>Flammability</b>	<b>Instability</b>	<b>Special Hazards</b>
	2	0	1	X
<b><u>HMIS</u></b>	<b>Health Hazards</b>	<b>Flammability</b>	<b>Physical hazards</b>	<b>Personal Protection</b>
	2	0	1	X

**Issue Date:** 10-Jan-2023  
**Revision Date:** 10-Jan-2023  
**Revision Note:** New Product

**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.

**End of Safety Data Sheet**