SAFETY DATA SHEET
According to OSHA Hazard Communication Standard 29 CFR 1910.1200 (GHS)

EARTH SCIENCE LABORATORIES, INC.
113 SE 22nd St., Suite 1
Bentonville, AR 72712
earthsciencelabs.com

Emergency Phone Number: 1-800-535-5053 (Infotrac)
Information Phone Number: 1-479-271-7381

Material Name: *PristineCheck®*

Issue Date: 12/93
Revision Date: 01/24/2018

Section 1 – PRODUCT IDENTIFICATION

Product Name: PristineCheck®

Manufactured by: Earth Science Laboratories, Inc.
113 SE 22nd St., Suite 1
Bentonville, AR 72712

Section 2 – HAZARDOUS INGREDIENTS

Components	CAS#	OSHA PEL	ACGIH TLV	%
1-hydroxyethylidene-1, 1-diphosphonic acid	2809-21-4	N/E	N/E	1-10%
Orthophosphoric acid	7664-21-4	1 mg m3	1 mg m3	<1%

*Per O.S.H.A. definition also known as 50 Fed. Reg. 48750

Section 3 – HEALTH HAZARDS IDENTIFICATION

Classification

Acute toxicity - Inhalation	**Category 4**
Skin corrosion/irritation	**Category 2**
Serious eye damage/eye irritation	**Category 1**

Symbol(s)

Primary Routes of Entry: *Inhalation, Absorption, and Ingestion.*
Eyes: *Corrosive*. Exposure may cause severe burns, destruction of eye tissue and possible permanent injury or blindness.
Skin: *Direct or Prolonged exposure*, may cause reddening, itching and/or inflammation.
Ingestion: *Caution*. Ingestion of decomposition products may cause cyanosis. Undiluted product may be slightly toxic.
Inhalation: *Irritating.* Inhalation of decomposition products may cause cyanosis. Mist of the product may cause irritation to the mucous membrane.

Section 4 – FIRST AID MEASURES

Eyes: Flush immediately with large amounts of water for at least 20 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Get immediate medical attention.
Skin: Immediately flush skin with plenty of water for at least 20 minutes while removing contaminated clothing and shoes. Get immediate medical attention.
Ingestion: If victim is conscious and alert, give 1-3 glasses of water to dilute stomach contents. Rinse mouth out with water. Do not induce vomiting unless directed by medical personnel. Get immediate medical attention.
Inhalation: Remove to fresh air. If not breathing, institute cardiopulmonary resuscitation (CPR). If breathing is difficult, ensure clear airway and give oxygen. Keep affected person warm and at rest. Get immediate medical attention.

Section 5 – FIRE AND EXPLOSION HAZARDS

Flash Point: N/E **UFL:** N/E **LFL:** N/E

General Fire Hazards: Water applied directly could result in spattering of low PH solution.
Hazardous Combustion Products: Products of combustion may be toxic, may also produce oxides of phosphorus.
Fire Fighting Equipment/Instructions: Firefighters must wear MSHA/NIOSH approved positive pressure breathing apparatus (SCBA) with full face mask and full protective equipment.

NFPA Ratings:	**Fire:** 0	**Health:** 2	**Reactivity:** 1	**Other:** X
HMIS III Ratings:	**Fire:** 0	**Health:** 2	**Reactivity:** 1	**Personal Protection:**

Section 6 – ACCIDENTAL RELEASE MEASURES

Containment Procedures: Dike and contain spill with inert material (sand, earth, ect.).
Clean-Up Procedures: Transfer solids and liquids into separate containers for recovery or disposal. Flush area completely with water.
Evacuation Procedures: Keep unnecessary people away; isolate hazard area and deny entry. Stay upwind.
Special Instructions: Notify local authorities and the National Response Center, if required.

Section 7 – HANDLING AND STORAGE

Procedures for Handling: Avoid contact with strong oxidizers. Do not use with materials or equipment sensitive to corrosive solutions.
Recommended Storage Methods: Keep out of reach of children. Keep containers close until used. Avoid storage in excessive heat; expansion of container may occur creating spillage. Do not store in galvanized or nylon equipment.

Section 8 – PERSONAL PROTECTION

Respiratory Protection: Ventilation and other forms of engineering controls are the preferred means for controlling exposures. A NIOSH/ MSHA approved air-purifying respirator with an appropriate acid gas cartridge or canister may be appropriate under certain circumstances where airborne concentrations are expected to exceed exposure limits.
Protective Gloves: Use appropriate chemical gloves that are in usable order.
Other Protective Clothing or Equipment: Eye and face protection is necessary, long sleeved shirts, long pants, socks and shoes.
Work/Hygienic Practices: Use good personal hygiene. Body shower for prolonged skin contact.

Section 9 – PHYSICAL & CHEMICAL PROPERTIES

Appearance: Clear colorless liquid
Physical State: Liquid
pH: 1.5
Vapor Pressure: N/A
Boiling Point: 101 C at 76 mm Hg
Melting Point: 28 F

Odor: N/D
Vapor Density (Air=1): N/A
Evaporation Rate: N/A
Solubility in Water: Complete
Specific Gravity (H_20=1):1.07 at 20 C

Section 10 – REACTIVITY INFORMATION

Chemical Stability: Stable.
Conditions to Avoid: Avoid mixing with other chemicals. Avoid temperatures above 190 C
Incompatibility: Incompatible with strong bases and strong reducing agents, especially at acid pH. Dilute before combining with oxidizers Such as hypochlorite, chromate, etc..
Hazardous Decomposition Products: May produce toxic vapors and/or fumes (oxides of carbon, oxides of phosphorus or phosphines.
Hazardous Polymerization: Will not occur.

Section 11 - TOXICOLOGICAL INFORMATION

Acute Toxicity / Chronic Toxicity: Continued overexposure to this solution may cause systemic toxicity and/or may aggravate pre-exiting anemia.
Carcinogenicity: N/A
Signs and Symptoms of Exposure: Overexposure may cause the following specific symptoms, depending on the concentration and duration of exposure: irritation of skin and/or eyes.

Section 12 – ECOLOGICAL INFORMATION

Waters treated with this product may be hazardous to aquatic organisms.

Section 13 – DISPOSAL CONSIDERATIONS

Disposal Instructions: Flush completely with water and dispose of in accordance with all federal, state and local regulations.

Section 14 – TRANSPORTATION INFORMATION

DOT Information

Proper Shipping Name: CORROSIVE LIQUID, ACIDIC, ORGANIC(Hydroxyethylidene, diphosphonic acid)
Hazard Class: 8
UN/NA #: 3265
Packing Group: III

Section 15 – REGULATORY INFORMATION

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Section 16 – OTHER INFORMATION

Date of Last Revision: January 24, 2018.