

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

EARTH SCIENCE LABORATORIES, INC.

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Bentonville, AR 72712
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Emergency Phone Number:
Information Phone Number:

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1-479-271-7381

Material Name: *Kleen-pHree*

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Section 1 – PRODUCT IDENTIFICATION

Product Name: Kleen-pHree

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

Section 2 – HAZARDOUS IDENTIFICATION

NFPA
HMIS III:

Health = 2, Fire = 0, Reactivity = 1
H2///F0/PH1

GHS Signal Word:

Warning

GHS Hazard Pictograms:



GHS Classifications:

Physical, Corrosive to Metals, 1
Health, Acute Toxicity, 4 Oral
Health, Skin corrosion/irritation. Avoid contact with skin, 2
Health, Causes serious eye irritation. Do not get in eyes, 2
Environmental, Hazards to the aquatic environment – no data available

GHS Phrases:

H290 – May be corrosive to metal
H302 – Harmful if swallowed
H315 – Causes skin irritation
H319 – Causes serious eye irritation

GHS Precautionary Statements:

P102 – Keep out of reach of children.
P233 – Keep container tightly closed.
P262 – Do not get in eyes, on skin or clothing.
P264 – Wash skin thoroughly after handling.
P270 – Do not eat, drink or smoke when handling this product.
P280 – Wear protective gloves/protective clothing/eye protection/face protection.
P281 – Use personal protective equipment as required.
P301+310 – IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P301+330+331 – IF SWALLOWED: Rinse mouth. DO NOT induce vomiting.
P303+361+353 – IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+340 – IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+351+338 – IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P403+233 – Store in a well-ventilated place. Keep container tightly closed
P501 – Dispose of contents /container according to State and Federal laws.

Section 3- COMPOSITION/INFORMATION ON INGREDIENT

Components	CAS#	%
Orthophosphoric Acid	7664-38-2	5-20%
Inerts		80-95 %

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 acid solution.

Hazardous Combustion Products: May react with high carbon metals to produce hydrogen gas, which can form an explosive mixture.

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: X

Section 6 – ACCIDENTAL RELEASE MEASURES

Containment Procedures: Flush with water into retaining area or container. Caution should be exercised regarding personal safety and exposure to released product.

Clean-Up Procedures: Neutralize solution with bicarbonate of soda. Neutralize with 20 parts water to 1 part Kleen-pHree to bring pH to >4.0.

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: Avoid storage in excessive heat; expansion of container may occur creating spillage. Do not store in galvanized or nylon equipment.

Section 8 – EXPOSURE CONTROL/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.

Personal Protective Equipment (PPE)

Mixers, loaders, applicators and other handlers must wear the following: long-sleeved shirt, long pants, shoes plus socks, chemical-resistant gloves made of any water proof material (Chemical Resistance Category A), and protective eyewear.

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry. Discard clothing and other absorbent material that have been drenched or heavily contaminated with the product's concentrate. Do not reuse them.

Section 9 – PHYSICAL & CHEMICAL PROPERTIES

Appearance: Clear liquid

Physical State: Liquid

pH: < 1.0

Vapor Pressure: 0.1mm 68° F

Boiling Point: 224.2° F

Melting Point: N/A

Odor: Odorless

Vapor Density (Air=1): 1.0

Evaporation Rate: N/A

Solubility in Water: Complete

Specific Gravity (H₂O=1): 1.40 +/- 0.05

Section 10 – REACTIVITY INFORMATION

Chemical Stability: Stable.

Conditions to Avoid: Avoid mixing with strong bases and strong reducing agents.

Incompatibility: Incompatible with strong bases and strong reducing agents.

Hazardous Decomposition Products: Sulfur dioxide and sulfur trioxide may be produced with decomposition.

Hazardous Polymerization: Will not occur.

Section 11 - TOXICOLOGICAL INFORMATION

Acute Toxicity / Chronic Toxicity: Continued overexposure to this solution may cause systemic toxicity.

Carcinogenicity: N/A

Signs and Symptoms of Exposure: Overexposure may cause the following specific symptoms, depending on the concentration and duration of exposure: vomiting, shallow respiration and lung function changes.

Section 12 – ECOLOGICAL INFORMATION

No data/information available.

Section 13 – DISPOSAL CONSIDERATIONS

Improper disposal of excess product mixture or rinsate is a violation of federal law. Dispose in a safe manner in accordance with local/national regulations. Dispose of container to comply with local, state and federal regulations.

In the event of spill, neutralize with limestone or baking soda before disposal. May deteriorate concrete.

Section 14 – TRANSPORTATION INFORMATION

DOT Information

Proper Shipping Name: Corrosive liquid, acidic, inorganic, n.o.s., (contains sulfuric and phosphoric acid)

Hazard Class: 8

UN/NA #: UN3264

Packing Group: III

- *Packages that contain less than 4.0 liters could be **ORM-D***
- *The proper shipping information is the responsibility of the shipper and this information is only guidelines.*

Section 15 – REGULATORY INFORMATION

Caution. Keep Out of Reach of Children.

Section 16 – OTHER INFORMATION

Date of Last Revision: January 2019.

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