

SAFETY DATA SHEET

SECTION 1: IDENTIFICATION

Product identifier used on the label:

Product Name: **Log Wash**

Other means of identification:

Recommended use of the chemical and restrictions on use:

Chemical manufacturer address and telephone number:

Manufacturer Name: Perma-Chink Systems, Inc.
Address: 1605 Prosser Road
Knoxville, TN 37914
USA
Website: www.permachink.com
General Phone Number: 800-548-3554
General Fax Number: 865-523-9475
Customer Service Phone Number: 865-524-7343

Emergency phone number:

Emergency Phone Number: CHEMTREC 1-800-424-9300

SECTION 2: HAZARD(S) IDENTIFICATION

Classification of the chemical in accordance with CFR 1910.1200(d)(f):

GHS Pictograms:



Signal Word: Warning.

GHS Class: Serious Eye Damage/eye irritation. category 2B.
Skin corrosion/irritation. category 2.
Corrosive to metals. category 1.

Hazard Statements: H320 - Causes eye irritation.
H315 - Causes skin irritation.
H290 - May be corrosive to metals.

Precautionary Statements: P234 - Keep only in original container.
P260 - Do not breathe dust/fume/gas/mist/vapours/spray.
P264 - Wash hands thoroughly after handling.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do not induce vomiting.
P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P333+P313 - If skin irritation or rash occurs, get medical advice/attention.
P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 - If eye irritation persists, get medical advice/attention.
P321 - Specific treatment (see ... on this label).
P363 - Wash contaminated clothing before reuse.
P390 - Absorb spillage to prevent material damage
P501 - Dispose of contents/container in accordance with Local, State, Federal and Provincial regulations.

Hazards not otherwise classified that have been identified during the classification process:

Potential Health Effects:

Eye: Severe eye irritant. Liquid and mist may damage eyes causing corneal damage.

Skin: May cause redness or swelling. Prolong or repeated contact may cause dermatitis.

Inhalation: May be irritating to mucous membrane of the nose, throat or lungs.

Ingestion: Harmful if ingested. May cause irritation to the mouth, throat and gastrointestinal tract. May cause vomiting and diarrhea.

Target Organs: Eyes, skin, respiratory system, and digestive system.

Aggravation of Pre-Existing Conditions: May aggravate pre-existing respiratory disorders, allergy, eczema, or skin conditions.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures:

Chemical Name	CAS#	Ingredient Percent	EC Num.
water	7732-18-5	92 - 95 by weight	231-633-2
Phosphoric acid	7664-38-2	5 - 8 by weight	

SECTION 4: FIRST AID MEASURES

Description of necessary measures:

Eye Contact:	Immediately flush eyes with plenty of water for at least 15 to 20 minutes. Ensure adequate flushing of the eyes by separating the eyelids with fingers. Remove contacts if present and easy to do. Continue rinsing. Get medical attention, if irritation or symptoms of overexposure persists.
Skin Contact:	Immediately wash skin with plenty of soap and water for 15 to 20 minutes, while removing contaminated clothing and shoes. Get medical attention if irritation develops or persists.
Inhalation:	If inhaled, remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention.
Ingestion:	If swallowed, do NOT induce vomiting. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

SECTION 5: FIRE FIGHTING MEASURES

Suitable and unsuitable extinguishing media:

Suitable Extinguishing Media:	Use alcohol resistant foam, carbon dioxide, dry chemical, or water fog or spray when fighting fires involving this material.
--------------------------------------	--

Special protective equipment and precautions for fire-fighters:

Protective Equipment:	As in any fire, wear Self-Contained Breathing Apparatus (SCBA), MSHA/NIOSH (approved or equivalent) and full protective gear.
------------------------------	---

NFPA Ratings:

NFPA Health:	3
NFPA Flammability:	0
NFPA Reactivity:	0



SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Personal Precautions:	Evacuate area and keep unnecessary and unprotected personnel from entering the spill area. Use proper personal protective equipment as listed in Section 8.
------------------------------	---

Environmental precautions:

Environmental Precautions:	Avoid runoff into storm sewers, ditches, and waterways.
-----------------------------------	---

Methods and materials for containment and cleaning up:

Methods for containment:	Contain spills with an inert absorbent material such as soil or sand. Prevent from spreading by covering, diking or other means. Provide ventilation.
Methods for cleanup:	Clean up spills immediately observing precautions in the protective equipment section. Provide ventilation.

SECTION 7: HANDLING and STORAGE

Precautions for safe handling:

Handling:	Use proper personal protective equipment as listed in section 8. Use with adequate ventilation. Avoid breathing vapor and contact with eyes, skin and clothing. Wash hands thoroughly after handling.
Hygiene Practices:	Wash thoroughly after handling. Avoid contact with eyes and skin. Avoid inhaling vapor or mist.

Conditions for safe storage, including any incompatibilities:

Storage:	Store in a cool, dry, well ventilated area away from sources of heat, combustible materials, and strong oxidizers. Keep container tightly closed and upright when not in use. Keep in the original container.
-----------------	---

SECTION 8: EXPOSURE CONTROLS, PERSONAL PROTECTION

EXPOSURE GUIDELINES:

Phosphoric acid :

Guideline ACGIH:	TLV-STEL: 3 mg/m ³ TLV-TWA: 1 mg/m ³
Guideline OSHA:	PEL-TWA: 1 mg/m ³

Appropriate engineering controls:

Engineering Controls:

Use appropriate engineering control such as process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Good general ventilation should be sufficient to control airborne levels. Where such systems are not effective wear suitable personal protective equipment, which performs satisfactorily and meets OSHA or other recognized standards. Consult with local procedures for selection, training, inspection and maintenance of the personal protective equipment.

Individual protection measures:

Eye/Face Protection:

Wear appropriate protective glasses or splash goggles as described by 29 CFR 1910.133, OSHA eye and face protection regulation, or the European standard EN 166.

Skin Protection Description:

Chemical-resistant gloves and chemical goggles, face-shield and synthetic apron or coveralls should be used to prevent contact with eyes, skin or clothing.

Respiratory Protection:

A NIOSH approved air-purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.

Other Protective:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

PPE Pictograms:



SECTION 9: PHYSICAL and CHEMICAL PROPERTIES

PHYSICAL AND CHEMICAL PROPERTIES:

Physical State:	Liquid
Color:	Red
Odor:	Detergent Odor
Odor Threshold:	No Data
Boiling Point:	210°F
Melting Point:	Not applicable.
Density:	8.7 - 8.9 lb./gal
Specific Gravity:	1.04 - 1.07
Specific Volume:	No Data
Solubility:	Miscible in water.
Vapor Density:	No Data
Vapor Pressure:	No Data
Percent Volatile:	81-87
Evaporation Rate:	No Data
Evaporation Point:	Data
pH:	1.1 - 1.5
Molecular Formula:	Mixture Not applicable.
Molecular Weight:	Not applicable.
Viscosity:	50 - 100 cP
Coefficient of Water/Oil	No Data
Distribution:	
Flammability:	No Data
Flash Point:	No Data
Lower Flammable/Explosive Limit:	Not applicable.
Upper Flammable/Explosive Limit:	Not applicable.
Explosive Properties:	No Data
Oxidizing Properties:	No Data
Refractive Index:	No Data
Optical Rotation:	Not applicable.
VOC Content:	No Data

SECTION 10: STABILITY and REACTIVITY

Chemical Stability:

Chemical Stability: Stable under normal temperatures and pressures.

Possibility of hazardous reactions:

Hazardous Polymerization: Not reported.

Conditions To Avoid:

Conditions to Avoid: Heat, flames, caustic (alkaline) materials, freezing or temperatures below 32 deg. F.

Incompatible Materials:

Incompatible Materials: Oxidizing agents. Strong acids and alkalis.

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION:

Water:

Ingestion: Oral - Rat LD50 - Lethal dose, 50 percent kill: >90 mL/kg [Details of toxic effects not reported other than lethal dose value] (RTECS)

Phosphoric Acid:

Inhalation: Inhalation - Rat LC50 - Lethal concentration, 50 percent kill: 25.5 mg/m³ [Lungs, Thorax, or Respiration - Acute pulmonary edema Liver - Changes in liver weight] (RTECS)

Ingestion: Oral - Rat LD50 - Lethal dose, 50 percent kill: 1.25 gm/kg [Lungs, Thorax, or Respiration - Acute pulmonary edema Liver - Changes in liver weight] (RTECS)

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity:

Phosphoric Acid:

Daphnia Magna EC50, static test - >100 mg/L for 48 hrs.

Desmodesmus Subspicatus (green algae), ErC50 static test - >100 mg/L for 72 hrs.

Bacteria EC50 static test, activated sludge, - > 1,000 mg/L for 3 hrs.

SECTION 13: DISPOSAL CONSIDERATIONS

Description of waste:

Waste Disposal: Dispose of according to federal, state, and local regulations to ensure compliance. Arrange disposal in accordance to the EPA and/or state and local guidelines.

SECTION 14: TRANSPORT INFORMATION

DOT Classification: Not regulated.

IMDG Class: Not regulated

IATA-DGR: Not regulated

SECTION 15: REGULATORY INFORMATION

Safety, health and environmental regulations specific for the product:

Phosphoric acid:

TSCA Inventory Status: Listed

Canada DSL: Listed

EC Number: 231-633-2

SECTION 16: ADDITIONAL INFORMATION

HMIS Ratings:

HMIS Health Hazard: 3
HMIS Fire Hazard: 0
HMIS Reactivity: 0
HMIS Personal Protection: X

Health Hazard	3
Fire Hazard	0
Reactivity	0
Personal Protection	X

SDS Creation Date: July 30, 2015

SDS Revision Date: July 25, 2022

SDS Format:

SDS Author: Perma-Chink Systems

Disclaimer: The information contained herein is, to the best of Perma-Chink Systems, Inc. knowledge, accurate as of the date indicated. Since the information contained herein may be applied under conditions beyond our control and with which we may be unfamiliar, and since data made available subsequent to the date hereof may suggest modifications of the information, we do not assume responsibility for the results of its use. This information is furnished on the condition that the person receiving it shall make their own determination as to the suitability of the material for their particular purpose and on the condition that they assume the risk of use thereof.