



Section 1 Product Description

Product NamepH 4 Calibration SolutionRecommended UseEquipment Calibration

Synonyms None known **Distributor** Atlas Scientific

43-15 11th Street, Long Island City, NY 11101

718-387-2075

Chemical Information 800-227-1150 (8am-5pm M-F)

Chemtrec 800-424-9300 (Transportation Spill Response 24 hours)

Section 2 Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200

Not a dangerous substance according to GHS classification criteria. No known OSHA hazards.

GHS Classification

Section 3 Composition / Information on Ingredients

Chemical Name	CAS #	%
Water	7732-18-5	99.2
Potassium Phthalate	877-24-7	0.7
Hydrochloric acid	7647-01-0	0.1

Section 4 First Aid Measures

Emergency and First Aid Procedures

Inhalation In case of accident by inhalation: remove casualty to fresh air and keep at rest.

Eyes In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Skin Contact After contact with skin, wash immediately with plenty of water.

Ingestion If swallowed, do not induce vomiting: seek medical advice immediately and show this

container or label.

Section 5 Firefighting Procedures

Extinguishing MediaUse media suitable to extinguish surrounding fire.

Fire Fighting Methods and Protection Firefighters should wear full protective equipment and NIOSH

approved self-contained breathing apparatus.

Fire and/or Explosion Hazards

Fire or excessive heat may produce hazardous decomposition products.

Hazardous Combustion Products Phosphorus compounds, Potassium Oxide, Sodium Oxides

Section 6 Spill or Leak Procedures

Steps to Take in Case Material are Released or Spilled

Environmental Precautions

No health affects expected from the clean-up of this material if contact can be avoided. Follow personal protective equipment recommendations found in Section 8 of this (M)SDS Avoid breathing material. Avoid contact with skin and eyes. Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation.

Section 7 Handling and Storage

Handling Avoid contact with skin and eyes.





Storage Keep container tightly closed in a cool, well-ventilated place.

Storage Code Green - general chemical storage

Section 8 Protection Information

ACGIH OSHA PEL

 Chemical Name
 (TWA)
 (STEL)
 (TWA)
 (STEL)

 Potassium Phthalate
 N/A
 N/A
 N/A
 N/A
 N/A

 Hydrochloric acid
 N/A
 N/A
 N/A
 N/A
 N/A

Control Parameters

Engineering MeasuresLocal exhaust ventilation or other engineering controls are normally required when

handling or using this product to avoid overexposure.

Personal Protective

Equipment (PPE) Lab coat, apron, eye wash, safety shower.

Respiratory Protection No respiratory protection required under normal conditions of use.

Respirator Type(s)

None required where adequate ventilation is provided. If airborne concentrations are

above the applicable exposure limits, use NIOSH/MSHA approved respiratory protection. Eye Protection Wear chemical splash goggles when handling this product. Have an eye

wash station available.

Skin Protection Avoid skin contact by wearing chemically resistant gloves, an apron and other protective

equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving

work.

Gloves No information available

Section 9 Physical Data

Formula See Section 3

Molecular Weight No data available

Appearance Colorless Red Depends upon product selection. The color additives do not affect product hazards. Liquid

Odor None

Odor Threshold No data available

pH 4

Melting Point Estimated 0°C

Boiling Point 100°C

Flash Point No data available

Flammable Limits in Air No data available

Vapor Pressure No data available

Evaporation Rate (BuAc=1) No data available Vapor Density (Air=1) No data available

Specific Gravity Approx. 1 Solubility in Water Soluble

Log Pow (calculated) No data available
Autoignition Temperature No data available
Decomposition Temperature No data available

Viscosity No data available

Percent Volatile by Volume No data available

Section 10 Reactivity Data

Reactivity Not generally reactive under normal conditions.

Chemical Stability Stable under normal conditions.

Conditions to Avoid None known.

Incompatible Materials Water-reactive materials

Hazardous Decomposition

Products Sodium Oxides, Potassium Oxide, Phosphorus compounds

Hazardous Polymerization Will not occur





Section 11 Toxicity Data

Routes of Entry Ingestion, skin and eye contact.

Symptoms (Acute) No data available
Delayed Effects No data available

Acute Toxicity

Chemical Name CAS Number Oral LD50 Dermal LD50 Inhalation LC50

Water 7732-18-5 Oral LD50 Rat 90000 mg/kg

Potassium Phthalate 877-24-7 Oral LD50 Rat Dermal LD50

3200 mg/kg Rabbit > 4640

mg/kg

Carcinogenicity

Chemical NameCAS NumberIARCNTPOSHAPotassium Phthalate877-24-7Not listedNot listedNot listedHydrochloric acid7647-01-0Not listedNot listedNot listed

Chronic Effects

Mutagenicity No evidence of a mutagenic effect.

Teratogenicity No evidence of a teratogenic effect (birth defect).

Sensitization No evidence of a sensitization effect.

Reproductive No evidence of negative reproductive effects.

Target Organ Effects

Acute Respiratory system, Cardiovascular system, Musculoskeletal system

Chronic No information available

Section 12 Ecological Data

Overview: This material is not expected to be harmful to the ecology.

Mobility: This material is expected to have high mobility in soil. It absorbs weakly to most soil types.

Persistence: Dissolved into water

Bioaccumulation: Bioconcentration is not expected to occur.

Degradability:No dataOther Adverse Effects:No data

Chemical NameCAS NumberEco ToxicityWater7732-18-5No data available

Potassium Phthalate 877-24-7

Hydrochloric acid 7647-01-0 Aquatic LC50 (96h) Rainbow Trout 45.4 MG/L

Section 13 Disposal Information

Disposal MethodsDispose in accordance with all applicable Federal, State and Local regulations.

Always contact a permitted waste disposer (TSD) to assure compliance.

Waste Disposal Code(s) Not Determined

Section 14 Transport Information

Ground - DOT Proper Shipping NameNot regulated for transport by US DOT.

Air - IATA Proper Shipping Name

Not regulated for air transport by IATA.





Section 15	Regulatory Information					
TSCA Status	All components in this	All components in this product are on the TSCA Inventory.				
Chemical Name	CAS § 313 Name Name	§ 304 RQ	CERCLA RQ	§ 302 TPQ	CAA 112(2) TQ	
Potassium Phthalate Hydrochloric acid	877-24-7 No 7647-01-0 No	No 1000 lb RQ	No 1000lb (454kg) final RQ	No No	No No	

Section 16 Additional Information

Revised 06/01/2020 **Replaces** 09/16/2015 **Printed** 06/01/2020

The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Atlas Scientific makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the (Material) Safety Data Sheet.

Glossary

ACGIH American Conference of Governmental Industrial Hygienists

CAS Chemical Abstract Service Number

CERCLA Comprehensive Environmental Response, Compensation, and Liability Act

DOT U.S. Department of Transportation

IARC International Agency for Research on Cancer

N/A Not Available

NTP National Toxicology Program

OSHA Occupational Safety and Health Administration

PEL Permissible Exposure Limit

ppm Parts per million

RCRA Resource Conservation and Recovery Act
SARA Superfund Amendments and Reauthorization Act

TLV Threshold Limit Value

TSCA Toxic Substances Control Act

IDLH Immediately dangerous to life and health