



## Section 1 Product Description

<b>Product Name</b>	pH 4 Calibration Solution
<b>Recommended Use</b>	Equipment Calibration
<b>Synonyms</b>	None known
<b>Distributor</b>	Atlas Scientific 630 Flushing Ave, 8 <sup>th</sup> Floor Brooklyn, NY 11206 718-387-2075
<b>Chemical Information</b>	800-227-1150 (8am-5pm M-F)
<b>Chemtrec</b>	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

<b>Chemical Name</b>	<b>CAS #</b>	<b>%</b>
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**

<b>Inhalation</b>	In case of accident by inhalation: remove casualty to fresh air and keep at rest.
<b>Eyes</b>	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
<b>Skin Contact</b>	After contact with skin, wash immediately with plenty of water.
<b>Ingestion</b>	If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

## Section 5 Firefighting Procedures

<b>Extinguishing Media</b>	Use media suitable to extinguish surrounding fire.
<b>Fire Fighting Methods and Protection</b>	Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.
<b>Fire and/or Explosion Hazards</b>	Fire or excessive heat may produce hazardous decomposition products.
<b>Hazardous Combustion Products</b>	Phosphorus compounds, Potassium Oxide, Sodium Oxides

## Section 6 Spill or Leak Procedures

<b>Steps to Take in Case Material are Released or Spilled</b>	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
<b>Environmental Precautions</b>	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

<b>Handling</b>	Avoid contact with skin and eyes.
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**Storage**  
**Storage Code**

Keep container tightly closed in a cool, well-ventilated place.  
 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
Hydrochloric acid	N/A	N/A	2 mg/m3 TWA	N/A
<b>Control Parameters</b>				
<b>Engineering Measures</b>	Local exhaust ventilation or other engineering controls are normally required when handling or using this product to avoid overexposure.			
<b>Personal Protective Equipment (PPE)</b>	Lab coat, apron, eye wash, safety shower.			
<b>Respiratory Protection</b>	No respiratory protection required under normal conditions of use.			
<b>Respirator Type(s)</b>	None required where adequate ventilation is provided. If airborne concentrations are above the applicable exposure limits, use NIOSH/MSHA approved respiratory protection.			
<b>Skin Protection</b>	Eye Protection Wear chemical splash goggles when handling this product. Have an eye wash station available.			
	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.			
<b>Gloves</b>	No information available			

**Section 9 Physical Data**

<b>Formula</b> See Section 3	<b>Vapor Pressure</b> No data available
<b>Molecular Weight</b> No data available	<b>Evaporation Rate (BuAc=1)</b> No data available
<b>Appearance</b> Colorless Red Depends upon product selection. The color additives do not affect product hazards. Liquid	<b>Vapor Density (Air=1)</b> No data available
<b>Odor</b> None	<b>Specific Gravity</b> Approx. 1
<b>Odor Threshold</b> No data available	<b>Solubility in Water</b> Soluble
<b>pH</b> 4	<b>Log Pow (calculated)</b> No data available
<b>Melting Point</b> Estimated 0°C	<b>Autoignition Temperature</b> No data available
<b>Boiling Point</b> 100°C	<b>Decomposition Temperature</b> No data available
<b>Flash Point</b> No data available	<b>Viscosity</b> No data available
<b>Flammable Limits in Air</b> No data available	<b>Percent Volatile by Volume</b> No data available

**Section 10 Reactivity Data**

<b>Reactivity</b>	Not generally reactive under normal conditions.
<b>Chemical Stability</b>	Stable under normal conditions.
<b>Conditions to Avoid</b>	None known.
<b>Incompatible Materials</b>	Water-reactive materials
<b>Hazardous Decomposition Products</b>	Sodium Oxides, Potassium Oxide, Phosphorus compounds
<b>Hazardous Polymerization</b>	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	CAS Number	Oral LD50	Dermal LD50	Inhalation LC50
<b>Chemical Name</b> Water	7732-18-5	Oral LD50 Rat 90000 mg/kg		
Potassium Phthalate	877-24-7	Oral LD50 Rat 3200 mg/kg	Dermal LD50 Rabbit > 4640 mg/kg	

Carcinogenicity	CAS Number	IARC	NTP	OSHA
<b>Chemical Name</b> Potassium Phthalate	877-24-7	Not listed	Not listed	Not listed
Hydrochloric acid	7647-01-0	Not listed	Not listed	Not 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 data  
**Other Adverse Effects:** No data

Chemical Name	CAS Number	Eco Toxicity
Water	7732-18-5	No 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 Methods** Dispose 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 Name** Not regulated for transport by US DOT.  
**Air - IATA Proper Shipping Name** Not regulated for air transport by IATA.



**Section 15 Regulatory Information**

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

**Section 16 Additional Information**

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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