MICRO ESSENTIAL

Safety Data Sheet

Hydrion® pH and sanitizer test kits since 1934

Issue Date: 15-Feb-2012

Revision Date: 12-Aug-2019

Version 2

1. IDENTIFICATION Product identifier **Product Name** HYDRION BUFFER pH 7.00 Other means of identification SDS # **MEL-002** Recommended use of the chemical and restrictions on use **Recommended Use** For preparation of buffer standards in distilled water. Details of the supplier of the safety data sheet Supplier Address MICRO ESSENTIAL LABORATORY, INC PO BOX 100824, 4224 AVENUE H BROOKLYN, NY 11210 Emergency telephone number **Company Phone Number** PHONE: 718-338-3618 FAX: 718-692-4491 (8:00AM TO 4:00PM EASTERN STANDARD TIME) **Emergency Telephone** INFOTRAC 1-352-323-3500 (International) 1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

Appearance White to off white Granules, crystals or powder

Physical state Solid

Odor Odorless

Classification

This chemical does not meet the hazardous criteria set forth by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200). However, this Safety Data Sheet (SDS) contains valuable information critical to the safe handling and proper use of this product. This SDS should be retained and available for employees and other users of this product.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No	Weight-%
Sodium Phosphate	7558-79-4	60-70

**If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret. **

4. FIRST AID MEASURES

Description of first aid measures

Eye Contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
Skin Contact	Wash affected areas thoroughly with soap and water for at least 15 minutes. Get medical attention if necessary.
Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If breathing is difficult, give oxygen. Get medical attention if necessary.

Ingestion Drink plenty of water. Do not induce vomiting without medical advice. Get medical attention if necessary.

Most important symptoms and effects, both acute and delayed

SymptomsDust may be irritating to eyes. Prolonged skin contact may cause skin irritation or allergic
reaction. Ingestion can irritate stomach and cause mouth burns. Prolonged exposure by
inhalation may cause irritation of the nose, throat and respiratory tract. Prolonged exposure
to BULK POWDER may cause irritation to the eyes, skin and respiratory system.

Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media Not determined.

Specific Hazards Arising from the Chemical

Non-flammable.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Do not release runoff from fire control methods to sewers or waterways.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions	Use personal protective equipment as required. Keep unnecessary people away, isolate hazard area and deny entry. Restrict access to area until completion of clean-up. Ensure clean-up is conducted by trained personnel only.
Environmental precautions	
Environmental precautions	Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information. See Section 13: DISPOSAL CONSIDERATIONS.
Methods and material for containme	ent and cleaning up
Methods for Containment	Prevent further leakage or spillage if safe to do so.
Methods for Clean-Up	Sweep up, place in a bag, and hold for waste disposal. If permitted by local regulations and authorities dispose of as normal refuse. However, if NOT permitted to do so then waste must be disposed of according to RCRA regulations. Wash area with soap and water.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on Safe Handling	 Handle in accordance with good industrial hygiene and safety practice. Use personal protection recommended in Section 8. The following precautions pertain only to BULK POWDER handling: Ventilation: Use adequate general or local ventilation to keep fume and dust levels as low as possible Respiratory Protection: Use NIOSH approved dust respirator when handling bulk powder Eye Protection: Chemical splash goggles with side shields when handling bulk powder Gloves: Natural rubber, butyl neoprene or equivalent. Wear full cover clothing when handling bulk powder. Do not breathe dust. Avoid contact with skin, eyes or clothing. Wash face, hands and any exposed skin thoroughly after handling. Do NOT take internally.
Conditions for safe storage, includ	ng any incompatibilities
Storage Conditions	Keep container tightly closed and store in a cool, dry and well-ventilated place. Avoid excessive temperatures & high humidity.
Incompatible Materials	Hazardous reaction in aqueous solution may occur with chlorine, hypochlorous acid, hypochlorites, cyanides or sulfides.
8. EX	POSURE CONTROLS/PERSONAL PROTECTION
Exposure Guidelines	This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region-specific regulatory bodies
Appropriate engineering controls	
Engineering Controls	Ensure adequate ventilation, especially in confined areas. Eyewash stations. Showers. Local exhaust ventilation recommended.
Individual protection measures, su	ch as personal protective equipment
Eye/Face Protection	Refer to 29 CFR 1910.133 for eye and face protection regulations. Contact lenses are not eye protective devices. Appropriate eye protection must be worn instead of, or in conjunction with, contact lenses.
Skin and Body Protection	Wear chemically protective gloves, boots, aprons, and gauntlets to prevent prolonged or repeated skin contact.
Respiratory Protection	Seek professional advice prior to respirator selection and use. Select respirator based on its suitability to provide adequate worker protection for given working conditions, level of airborne contamination, and presence of sufficient oxygen. WARNING! Air-purifying respirators do not protect workers in oxygen-deficient atmospheres. If respirators are used, OSHA requires a written respiratory program that includes at least: medical certification, training, fit-testing, periodic environmental monitoring, maintenance, inspection, cleaning, and convenient, sanitary storage areas.
General Hygiene Consideration	s Handle in accordance with good industrial hygiene and safety practice. Contaminated Equipment: Separate contaminated work clothes from street clothes. Launder before reuse. Remove this material from your shoes and clean personal protective equipment. Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state Appearance	Solid White to off white Granules, crystals or powder	Odor	Odorless
Color	White to off white	Odor Threshold	Not determined
Property pH Melting point / freezing point Boiling point / boiling range Flash point Evaporation Rate Flammability (Solid, Gas) Flammability Limit in Air Upper flammability or explosive limits Lower flammability or explosive limits Vapor Pressure Vapor Density	Values7.00Not determined100 °C / 212 °FNon-flammableNot determinedNot determinedNot determinedNot determinedNot determinedNot determinedNot determinedNot determinedNot determinedNot determined	<u>Remarks • Method</u>	
Relative Density	~1	@ 60°F (ASTM D 1298)	
Water Solubility Solubility in other solvents Partition Coefficient Autoignition temperature Decomposition temperature Kinematic viscosity Dynamic Viscosity Explosive Properties Oxidizing Properties	Miscible in water Not determined Not determined Not determined Not determined Not determined Not determined Not determined		
<u>Other information</u> Molecular weight	Potassium Phosphate Monobasic 136.	09 grams	

Potassium Phosphate Monobasic 136.09 grams Sodium Phosphate Dibasic 141.96 grams

10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions.

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

See below - Incompatible Materials.

Hazardous Polymerization

Hazardous polymerization does not occur.

Conditions to Avoid

Keep out of reach of children.

Incompatible materials

Hazardous reaction in aqueous solution may occur with chlorine, hypochlorous acid, hypochlorites, cyanides or sulfides.

Hazardous decomposition products

May emit toxic fumes of phosphorous oxide.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information	
Eye Contact	Avoid contact with eyes.
Skin Contact	May be harmful in contact with skin.
Inhalation	Do not inhale.
Ingestion	Do not ingest.

Component Information

Chemical name Oral LD50		Dermal LD50	Inhalation LC50	
Sodium Phosphate 7558-79-4	= 17 g/kg (Rat)	-	-	
Potassium Phosphate 7778-77-0	= 3200 mg/kg (Rat)	> 4640 mg/kg (Rabbit)	-	

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms

Please see section 4 of this SDS for symptoms.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Carcinogenicity Based on the information provided, this product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

Numerical measures of toxicity

The following values are calculated based on chapter 3.1 of the GHS document.

Oral LD50	6,238.50 mg/kg
Dermal LD50	4,644.64 mg/kg

12. ECOLOGICAL INFORMATION

Ecotoxicity

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Persistence/Degradability

Not determined.

Bioaccumulation

There is no data for this product.

<u>Mobility</u>

Not determined

Other Adverse Effects

Not determined

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal of Wastes	Disposal should be in accordance with applicable regional, national and local laws and regulations.
Contaminated Packaging	Disposal should be in accordance with applicable regional, national and local laws and regulations.
	14. TRANSPORT INFORMATION
<u>Note</u>	Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.
<u>DOT</u>	Not regulated
IATA	Not regulated
IMDG_	Not regulated

15. REGULATORY INFORMATION

International Inventories

Chemical name	TSCA	TSCA Inventory	DSL/NDSL	EINECS/ELI	ENCS	IECSC	KECL	PICCS	AICS
		Status		NCS					
Sodium Phosphate	Х	ACTIVE	Х	Х	Х	Х	Х	Х	Х
Potassium Phosphate	Х	ACTIVE	Х	Х	Х	Х	Х	Х	Х

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

US Federal Regulations

CERCLA

Chemical name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Sodium Phosphate	5000 lb		RQ 5000 lb final RQ
7558-79-4			RQ 2270 kg final RQ

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

CWA (Clean Water Act)

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Sodium Phosphate	5000 lb			Х

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Sodium Phosphate	Х	Х	Х
7558-79-4			

16. OTHER INFORMATION

<u>NFPA</u> HMIS	Health Hazards 0 Health Hazards 0	Flammability 0 Flammability 0	Instability 0 Physical hazards 0	Special Hazards Not determined Personal Protection Not determined
Issue Date: Revision Date: Revision Note:	15-Feb-2012 12-Aug-2019 Regulatory review			

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet