1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: R1404 - pH Buffer Solution 4.01 | Product Use: A Mixture of Analytical Testing Reagent

Manufactured By:

24-Hour Emergency Response Number:

US/Canada1-800-633-8253 (PERS)/Outside: 1-801-692-0667

GHS Pictogram(s)

Irritant

(I)

WARNING

Signal Word



312 Raleigh Street, Suite 9 DOT Label(s) Personal Protective Equipment

Wilmington, NC 28412
Tel: 877-849-2127 www.reedinstruments.com

Non-Regulated Materials





To the best of our knowledge, this Safety Data Sheet is prepared to comply with US OSHA 29 CFR1910.1200 and other governmental agencies both domestic and foreign. Hazard and precautionary statements are based on maximum listed concentrations of each hazardous ingredient. Unlisted ingredients are not "hazardous" per the OSHA Hazard Communication Standard (29 CFR 1910.1200) and/or other governmental agencies.

2. HAZARDS IDENTIFICATION

GHS CLASSIFICATION/GHS LABEL ELEMENTS

Signal Word GHS Pictogram(s) Hazard Statements Precautionary Statements

"WARNING"

Total

Irritant

H303-May be harmful if swallowed H316-Causes mild skin irritation. H320-Causes eye irritation. P102-Keep out of reach of children.
P233-Keep container tightly closed.
P262-Do not gets in eyes, on skin or on clothing.
P264-Wash thoroughly after handling.

P281-Use personal protective equipment as required.

3. PRODUCT INGREDIENTS CAS **Hazard Statements GHS Hazard Hazardous Components** % by Wt. Number (Section 15) Pictogram(s) H303-May be harmful if swallowed. Potassium Hydrogen Phthalate 0-5 877-24-7 H316-Causes mild skin irritation. H320-Causes eye irritation 95-100 **Non Hazardous Ingredient**

4. FIRST AID MEASURES

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing difficult, give oxygen.

100

Call a physician if any difficulties persist.

Eyes: Flush eyes with a large amount of water for 15 minutes. Seek medical attention immediately if any irritation persists. After first aid,

get appropriate in-plant, paramedic or community medical support.

Skin: Wash affected areas thoroughly with soap and water for at least 15 minutes. Cover the irritated skin with an emollient. Remove

contaminated clothing and shoes. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Seek

medical attention if any irritation persists.

Ingestion If person can swallow, give 2 glasses of water to drink. DO NOT INDUCE VOMITING! After first aid, seek appropriate in-plant,

paramedic, or community medical support. Never give anything by mouth to an unconscious person.

After first aid, get appropriate in-plant, paramedic, or community medical support.

5. FIRE FIGHTING MEASURES

Flammability Classification: Non Flammable

Suitable Extinguishing Media: Water fog, Alcohol foam, Carbon Dioxide, Dry Chemical

Unusual Fire or Explosion Hazards: None known other than material can splatter above 100°C/212°F. **Hazardous Combustion Products:** Unknown but carbon monoxide may be released on burning.

Fire-Fighting Instructions: Do not release runoff from fire control methods to sewers or waterways.

Fire-Fighting Equipment: Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus

(SCBA) with a full face piece operated in pressure-demand or positive-pressure mode.

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6. ACCIDENTIAL RELEASE MEASURES				
Personal Precautions:	Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation			
Small Spills:	Absorb spill with paper towel or similar absorbent; or flush to sewer or ground with large amounts of water.			
Large Spills:	For large spills, dike far ahead of liquid spill for later disposal. Do not release into sewers or waterways. Absorb spill			
Containment:	with vermiculite, oil dry or similar non-reactant absorbent. Solidified product represents no environmental hazard.			
Cleanup:	Accumulate the absorbed materials and dispose of according to federal, state and local regulations.			
Environmental	Follow applicable OSHA/CERCLA or any other regulations (29 CFR 1910.120) as well as any state or local regulations			
Precautions:	that may apply.			

	7. HANDLING AND STORAGE
Precautions for safe	Use the recommended safety controls and personal protective equipment as outlined. Fully review all data before
handling:	handling of the material itself. Avoid contact with skin or eyes. Avoid breathing dust or mist. Keep from contact with clothing and other combustible materials. Observe good personal hygiene and housekeeping practices. Wash thoroughly after handling.
Conditions for safe	Do not store in direct sunlight. Store in a tightly closed container. Store in a cool dry, well ventilated area. Do not
Storage:	store this material near any strong acids, bases, oxidizers, flammables or any other type of reactive material. Do not expose the material to temperature extremes.
Regulatory Requirements:	Store materials according to all local, state and federal guidelines that are established for non-regulated chemical products.

	8. EXPOSURE CONTROL	S/PERSONAL PROTECTI	ON		
Hazardous Components	Components with limit values tha CAS Number	t require monitoring at the w OSHA PEL/TWA STEL	orkplace: ACGIH TLV/TWA STEL	Other	
Potassium Hydrogen Phth		None Est.	None Est.	Other	
, <u> </u>					
Engineering Controls:					
Ventilation:	Provide general or local exhaust ventilation	systems to maintain airborne	e concentrations below OSHA P	ELs (Sec. 2).	
	Local exhaust ventilation is preferred becau	use it prevents contaminant d	ispersion into the work area by	controlling it at	
	its source.				
Respiratory Protection:	Seek professional advice prior to respirator		, , ,	•	
	and, if necessary, wear a MSHA/NIOSH-app	proved respirator. Select resp	irator based on its suitability to	provide	
	adequate worker protection for given working conditions, level of airborne contamination, and presence of sufficient				
	oxygen. For emergency or non-routine operations (cleaning spills, reactor vessel, or storage tanks), wear an SCBA.				
	Warning! Air-purifying respirators do not protect workers in oxygen-deficient atmospheres. If respirators are used,				
	OSHA requires a written respiratory protection program that includes at least: medical certification, training, fit				
	testing, periodic environmental monitoring	, maintenance, inspection, cle	eaning, and convenient, sanitar	y storage areas	
Personal Protective	Wear protective eyeglasses or chemical safety goggles, per OSHA eye-and face-protection regulations (29 CFR				
Equipment (PPE):	1910.133). Contact lenses are not eye prot	ective devices. Appropriate e	eye protection must be worn in	stead of, or in	
	conjunction with contact lenses. At a minin	num wear safety glasses with	side shields as well as chemical	ly protective	
	gloves and aprons to prevent prolonged or	repeated skin contact.			
Safety Stations:	Make emergency eyewash stations, safety/	$^\prime$ quick-drench showers, and w	ashing facilities available in wo	rk area.	
Contaminated	Separate contaminated work clothes from	street clothes. Launder befor	e reuse. Remove this material	from your	
Equipment:	shoes and clean personal protective equipr				
Comments:	Never eat, drink, or smoke in work areas. F	Practice good personal hygien	e after using this material, espe	ecially before	
	eating, drinking, smoking, using the toilet, o	or applying cosmetics.			
Work/Hygienic Practices	Consistent use of afore-mentioned persona	al protective equipment is ess	ential in preventing injuries or i	irritation.	

9. PHYSICAL AND CHEMICAL PROPERTIES					
Form:	Liquid	Appearance:	Red color	Odor:	Characteristic odor
pH:	4.01	Vapor Pressure:	Same as water	Flammability:	Non-flammable
Specific Gravity:	1.00+/-	Vapor Density:	Same as water	Flash Point:	NA
Water Solubility:	Complete	Evaporation Rate:	1.00	Auto Ignition Temp:	NA
Other Solubilities:	Not Determined	Melting Point:	NA	LEL:	Not Determined
% Volatile:	100%+/-	Freeze Point:	Approx. 32°F	UEL:	Not Determined
Boiling Point:	212°F +/-	Decomposition Temp:	Not Determined		

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10. STABILITY AND REACTIVITY

Stability: This product is stable at room temperature in closed containers under normal storage and handling conditions.

However, avoid temperature extremes.

Conditions to Avoid: Excessive temperature, contact with any type of reactive chemicals

Hazardous Polymerization: Hazardous polymerization will not occur.

Chemical Incompatibilities: Avoid contact with Strong Acids, Strong Alkalis, Oxidizers or any other type of reactive material.

Hazardous Decomposition There are no known hazardous decomposition products for this material unless the material is burned in which

Products: case undetermined evolution of toxic gases may occur.

11. TOXICOLOGICAL INFORMATION			
Hazardous Components	CAS No.:	LD50 of Ingredient (Specify Species & Route)	LD50 Dermal of Ingredient (Specify Species)
Potassium Hydrogen Phthalate	877-24-7	>3200mg/kg Oral Rat	>1000mg/kg Guinea Pig

Primary Irritant Effects:

Routes of Entry: Absorbed through skin, Dermal Contact, Eye Contact, Inhalation.

Eye Effects: Irritation to eyes & possible burning if materials are not immediately rinsed from the eye.

Acute Inhalation Effects: Might produce irritation to respiratory system.

Skin Effects: Irritation to skin.

Acute Oral/Ingestion Effects: Not tested for this blend. Harmful if swallowed.

Chronic Effects on Humans:No specific studies have been conducted for this specific blend. **Other Toxic Effects on Humans:**No specific studies have been conducted for this specific blend.

Special Remarks- Human Chronic Effects: No other information for chronic effects on humans.

Carcinogenity: IARC, NTP, and OSHA do not list this product or its components as a carcinogen.

Mutagenicity:No mutagenic effects are known to be applicable for the formulation components of this product.

Teratogenicity:No studies have been performed for this specific product blend. **Target Organ Statement:**No studies have been conducted for this specific product blend.

12. ECOLOGICAL INFORMATION				
Hazardous Components	CAS No.:	EC:50	LD:50	
Potassium Hydrogen Phthalate	877-24-7	No data at publication	No data at publication	
Special Remarks-Products of biodegradation:	No information at publication			

13. WASTE DISPOSAL CONSIDERATIONS		
Disposal Regulatory Requirements:	Contact your supplier or a licensed contractor for detailed recommendations. Follow applicable federal, state and local regulations.	
Container Cleaning and Disposal:	Triple rinse the empty containers with water before disposal to reconditioned or land fill or garbage.	

14. TRANSPORTATION INFORMATION

Proper Shipping Name: NON REGULATED MATERIALS DOT Shipping Label(s):

Contains:

Hazard Class: Marine Pollutant: UN Number: Packing Group: ERG Number: Non Hazardous No NA NA NA NA

Special Shipping Notations: None

Note: Transportation information provided is for reference only. Client is urged to consult CFR 49, Parts 100-177, IMDG, IATA, EU, United Nations, TDG and WHMIS (Canada) TDG information manuals for detailed regulations and exceptions covering specific container sizes, packaging materials and methods of shipping.

15. REGULATORY INFORMATION

Hazard Symbols:

 \Diamond

Hazard Statements: H303-May be harmful if swallowed.

H316-Causes mild skin irritation. H320-Causes eye irritation

Precautionary Statements: P102-Keep out of reach of children.

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P233-Keep container tightly closed.

P262-Do not gets in eyes, on skin or on clothing.

P264-Wash thoroughly after handling.

P281-Use personal protective equipment as required.

P301+P330+P331: If swallowed: Rinse mouth. Do not induce vomiting

P302+P350: If on skin: Gently wash with soap and water

P403-Store in a well ventilated place.

EPA Regulations:

Product blend is not listed (40 CFR 261.33) **RCRA Hazardous Waste Number:**

RCRA Hazardous Waste Classification (40 CFR 261.): Product blend is not classified.

Product blend is unlisted specific per RCRA, Sec. 3001; CWA, Sec. 311 (b) CERCLA Hazardous Substance (40 CFR 302.4):

(4); CWA, Sec. 307 (a),

CAA, Sec. 112 CERCLA Reportable Quantity (RQ): Not listed

SARA 313 Codes: This product is subject to the reporting

requirements of section 313 of the Emergency Planning and

Not listed

Community Right to Know Act of 1986 and 40CFR372.

SARA Toxic Chemical (40CFR 372.65): Not listed Sara 302/304 Extremely Hazardous Substance (40CFR 355) Not listed Not listed Sara 313 SARA EHS (Extremely Hazardous Substance) (40 CFR 355): Not listed Threshold Planning Quantity (TPQ):

OSHA Regulations:

Air Contaminant (20 CFR 1910.1000, Table Z-1, Z-1-A): Not listed. OSHA Specifically Regulated Substance (29 CFR 1910.): Not Listed

As a product blend, the materials are generally not listed. Check with your local state regulatory board for more detailed **State Regulations:**

information regarding the specific components of this product.

All components of this product are listed in the U.S. Environmental Protection Agencies, Toxic Substance Control Act **National Regulations:**

(TSCA) Chemical Substance Inventory.

16. OTHER INFORMATION

SDS Prepared/Reviewed By: C. Korres Date of Preparation: 3/2020

EMPLOYER'S RESPONSIBILITY

Employers should use this information only as a supplement to other information gathered by them and should make independent judgment of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

USER'S RESPONSIBILITY

The information and recommendations contained herein cannot cover all possible situations which the user may experience during processing. Each aspect of your operation should be examined to determine if, or where, additional precautions may be necessary. All health and safety information contained in this bulletin should be provided to your employees or customers. It is your responsibility to use this information to develop appropriate work practice guidelines and employee instructional programs for your operation.

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