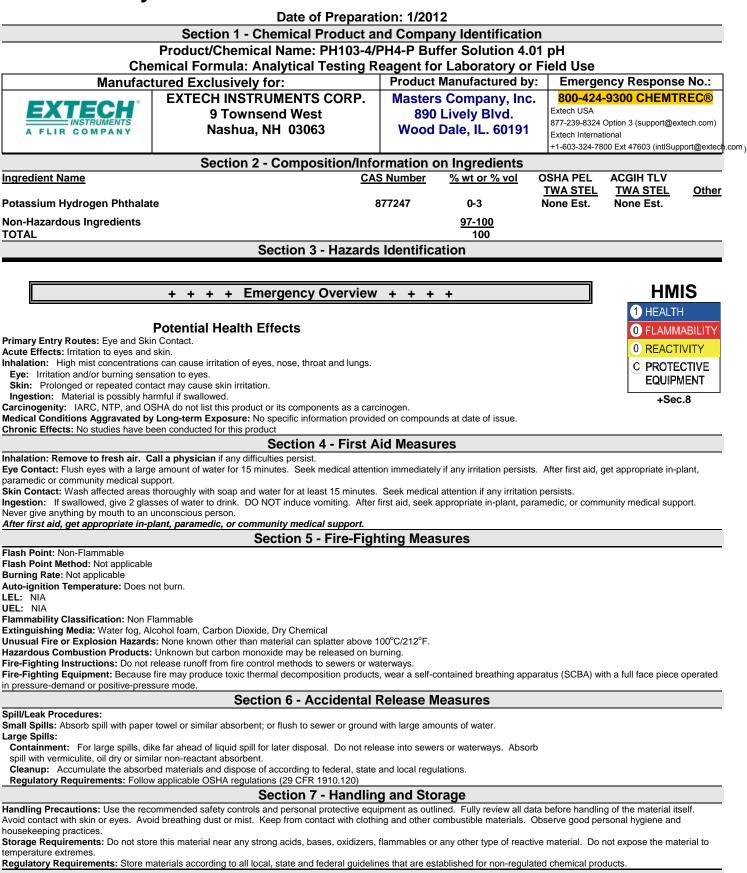
Material Safety Data Sheet



PH103-4/PH4-P

Section 8 - Exposure Controls/Personal Protection

Engineering Controls:

Ventilation: Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs (Sec. 2). Local exhaust ventilation is preferred because it prevents contaminant dispersion into the work area by controlling it at its source. Administrative Controls:

Respiratory Protection: Seek professional advice prior to respirator selection and use. Follow OSHA respirator regulations (29 CFR 1910.134) and, if necessary, wear a MSHA/NIOSH-approved respirator. Select respirator 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-*

Material Safety Data Sheet

PH103-4/PH4-P

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, cleaning, and convenient, sanitary storage areas. **Protective Clothing/Equipment:** Wear chemically protective gloves, boots, aprons, and gauntlets to prevent prolonged or repeated skin contact. Wear protective eyeglasses or chemical safety goggles, per OSHA eye-and face-protection regulations (29 CFR 1910.133). Contact lenses are not eye protective devices. Appropriate eye protection

must be worn instead of, or in conjunction with contact lenses. Safety Stations: Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area.

Contaminated Equipment: Separate contaminated work clothes from street clothes. Launder before reuse. Remove this material from your shoes and clean personal protective equipment.

Comments: 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

applying cosmetics		
Section	on 9- Physical and Chemical Pro	perties
Physical State: Liquid	Water Solubility:	
Appearance and Odor: Clear or Red Liquid/Slight odor		s: Not Determined
Vapor Pressure: Same as water	Boiling Point: 2	
Vapor Density (Air=1): Same as water	Freezing/Melting	
Specific Gravity (H ₂ O=1, at 4°C): 1.00+/-	% Volatile: 100%	
pH: 4.01	Evaporation Rat	
	•	
	Section 10 - Stability and Reactiv	
Stability: This product is stable at room temperature in close	ed containers under normal storage and handling	conditions. However, avoid temperature extremes.
Polymerization: Hazardous polymerization will not occur.	Strong Alkolia, Ovidizara ar any other type of rec	active metorial
Chemical Incompatibilities: Avoid contact with Strong Acids	· · · · ·	active material.
Conditions to Avoid: Excessive temperature, contact with an		al unless the material is human in which appartured termined
Hazardous Decomposition Products: There are no known h	lazardous decomposition products for this materi	
evolution of toxic gases may occur.	otion 44 Toxical arisal Informa	tion
Section 11 - Toxicological Information		
Eye Effects: Irritation to eyes and possible burning if material		
Acute Inhalation Effects: Might produce irritation to respirate	ory system	
Skin Effects: Irritation to skin		
Acute Oral Effects: Not tested for this blend		
Chronic Effects: No chronic effects are known to be attributa		
Carcinogenicity: No carcinogenic effects are known to be applicable for the formulation components of this product.		
Mutagenicity: No mutagenic effects are known to be applicable for the formulation components of this product.		
Teratogenicity: No studies have been performed.		
**See NIOSH, RTECS, for additional toxicity data.		
	Section 12 - Ecological Informati	on
Eco-toxicity: No specific data is available on this product. H		
the public domain. Consult the data available for each individ		······································
Environmental Fate: No studies have been conducted for this specific product.		
Environmental Degradation: Not tested for this product blend		
Soil Absorption/Mobility: Not tested for this product blend	-	
	ection 13 - Disposal Consideration	one
Disposal: Contact your supplier or a licensed contractor for detailed recommendations. Follow applicable federal, state and local regulations.		
Disposal Regulatory Requirements:	detailed recommendations. Follow applicable lec	ieral, state and local regulations.
Container Cleaning and Disposal: Triple rinse the empty co	ntainers with water before disposal to recondition	ed or land fill or garbage
	Section 14 - Transport Information	
	DOT Transportation Data (49 CFR 172.10	
Shipping Name: Non Regulated Materials	Packaging Authorizations Quantity Limitat	
Hazard Class:	a) Exceptions:	a) Passenger, Aircraft or Railcar:
ID No.:		b) Cargo Aircraft Only:
Label Code: B		
Emergency Response Guide No: None Listed		
Shipping Notations:		
	Section 15 - Regulatory Informati	on
EPA Regulations:		
RCRA Hazardous Waste Number: Product blend is not listed		
RCRA Hazardous Waste Classification (40 CFR 261): Produc		
CERCLA Hazardous Substance (40 CFR 302.4) Product blend is unlisted specific per RCRA, Sec. 3001; CWA, Sec. 311 (b) (4); CWA, Sec. 307 (a), CAA, Sec. 112 CERCLA		
Reportable Quantity (RQ): Not listed		
SARA 313 Codes:		
SARA Toxic Chemical: See CERCLA		
Sara 302/304 Extremely Hazardous Substance		
SARA EHS (Extremely Hazardous Substance): See CERCLA		
Threshold Planning Quantity (TPQ): See CERCLA		
OSHA Regulations:		
Air Contaminant (20 CFR 1910.1000, Table Z-1, Z-1-A): Not li	isted	
OSHA Specifically Regulated Substance (29 CFR 1910): Not listed		
State Regulations: As a product blend, the materials are generally not listed. Check with your local state regulatory board for more detailed information regarding the specific		
components of this product.		
Section 16 - Other Information		
Prepared By: G. Garcia, Technical Director		

Prepared By: G. Garcia, Technical Dia Revision Notes:

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**.

DISCLAIMER OF LIABILITY

As the conditions or methods of use are beyond our control, we do not assume any responsibility and expressly disclaim any liability for any use of this material. Information contained herein is believed to be true and accurate but all statements or suggestions are made without warranty, expressed or implied, regarding accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof. Compliance with all applicable federal, state and local laws and regulations remains the responsibility of the user.