

# Material Safety Data Sheet

May be used to comply with  
 OSHA's Hazard Communication Standard  
 29 CFR 1910.1200. Standard must be  
 Consulted for specific requirements

**U.S. Department of Labor**  
 Occupation Safety and Health Administration  
 (Non-Mandatory Form)  
 Form Approved  
 OMB No. 1218-0072

## IDENTITY

pH Buffers 4.0, 6.86, 7.0, 9.18 and 10.0

Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.

## Section I

Manufacturer's Name

Ken Starr, Inc. (KSI)

Emergency Telephone Number

800-424-9300

Address (Number, Street, City, State, and ZIP Code)

P. O. Box 20847

Telephone Number For Information

503-252-5742

Portland, OR 97294

Prepared 11/23/2004

Prepared by L.B. Garrison

## Section II - Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity; Common Name(s))	NIOSH OSHA TWA	ACGIH TLV	Other Limits Recommended	% (optional)
Potassium acid phthalate 877-24-7 (pH 4)				1.0
Sodium phosphate 7558-79-4 (pH 6.86, pH 7)				0.5
Potassium phosphate 7778-77-0 (pH 6.86, pH 7)				0.5
Sodium borate 1303-96-4 (pH 9.18, pH 10)				0.5
Sodium azide 26628-22-8 (all)				2 ppm

HIMS Rating

Health: 1 Flamm: 0 React: 0

## Section III - Physical/Chemical Characteristics

Boiling Point	100°C	Specific Gravity (H <sub>2</sub> O = 1)	1.0
Vapor Pressure (mm Hg)	0	Melting Point	0°C
Vapor Density (AIR = 1)	n/a	Evaporation Rate (Butyl Acetate = 1)	as water
NIA = No Information Available			
Solubility in Water	complete		
Appearance and Odor	Clear. all buffers may be colored. If colored, pH 4=red; pH 6.86=orange; pH 7=yellow; pH 9.18=violet; pH 10=blue		

## Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used)	Flammable Limits	n/a	LEL	n/a	UEL	n/a
Extinguishing Media	Use media appropriate for the surrounding fire.					
Special Fire Fighting Procedures	none					
Unusual Fire and Explosion Hazards	none					

## Section V - Reactivity Data

Stability	Unstable	<input type="checkbox"/>	Stable	<input checked="" type="checkbox"/>	Conditions to Avoid	Avoid freezing.
Compatibility (Materials to Avoid)	none					

## Hazardous Decomposition or Byproducts

Hazardous Polymerization	May Occur Will Not Occur	<input type="checkbox"/>	Conditions to Avoid	n/a
		<input checked="" type="checkbox"/>		

## Section VI - Health Hazard Data

Route(s) of Entry:	Inhalation?	Skin?	Ingestion?
yes, skin	unlikely	yes	yes
Health Hazards (Acute and Chronic)			
irritant			

Carcinogenicity:	NTP?	IARC Monographs?	OSHA Regulated?
unknown	n/a	n/a	n/a

**Signs and Symptoms of Exposure**

Irritation of skin or eyes.  
 Ingestion may cause vomiting or diarrhea

**Medical Conditions Generally Aggravated by Exposure**

Chronic skin exposure may cause dermatitis.  
 Chronic eye exposure may cause conjunctivitis

**Emergency and First Aid Procedure**

If skin contact occurs, wash with soap and water.  
 If eye contact occurs, flush with water.  
 Drink 2-3 glasses of water and induce vomiting if swallowed.

**Section VII - Precautions for Safe Handling and Use**

**Steps to be Taken in Case Material is Released or Spilled**

Wipe or mop up small spills. Absorb large spills.

**Waste Disposal Method**

Dispose in compliance with all local, state and federal regulations.  
 Not a hazardous material.

**Precautions to be Taken in Handling and Storage**

Keep closed when not in use. Store at room temperature, 15-30°C.

**Other Precautions**

No special ventilation or respiratory protection is required. Wear eye protection

**Section VIII - Control Measures**

**Respiratory Protection (Specify Type)**

n/a

Ventilation	Local Exhaust	Special
	Mechanical(General) Recommended	Other

**Protective Gloves**

latex or vinyl

**Other Protective Clothing or Equipment**

lab apron

**Work/Hygienic Practices**

Avoid contact with these solutions to avoid sensitivity.

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