

MATERIAL SAFETY DATA SHEET

Buffer Solution, pH 4 (Red)

SECTION 1 . Product and Company Identification

Product Name and	Buffer Solution, pH 4 (Red)		
Product Code:	147-20		
Material Uses:		Health:	0
Manufacturer:	OFI Testing Equipment Inc.	Flammability:	0
	11302 Steeplecrest Dr.	Reactivity:	0
	Houston, TX 77065		
	(877) 837-8683		
Entry Date :	7/15/2013		
Print Date:	7/15/2013		
24 Hour Emergency Assistance :	INFOTRAC USA - CANADA: 1-800-535-5053		
	INTERNATIONAL: 1-352-323-3500		

Hazard Rating:				
Least	Slight	Moderate	High	
Extreme				
0	1	2	3	4
NA=Not Applicable NE=Not Established				

SECTION 2 HAZARD IDENTIFICATION

May be harmful if swallowed. May cause irritation. Avoid breathing vapors, or dusts. Use with adequate ventilation. Avoid contact with eyes, skin, and clothes. Wash thoroughly after handling. Keep

Emergency Overview:Caution! May Cause Irritation to Skin and Eyes.

Inhalation:No Adverse Health Effects Expected from Inhalation.

Ingestion:Large Doses may Cause Stomach Upset.

Skin:Not Expected to be a Health Hazard from Skin Exposure. May Cause Mild Irritation and Redness.

Eye Contact:Not Expected to be a Health Hazard. May Cause Mild Irritation, Possible Reddening.

Chronic Exposure:No Information Found.

Aggravated by Exposure:No Information Found.

SECTION 3 MIXTURE COMPONENTS

SARA 313	Component	CAS Number	Percent Comp.	Dimension	Exposure Limits
	Methyl Red Sodium Salt	CAS# 845-10-3	<	W/V	None Established
	Potassium Hydrogen Phthalate	CAS# 877-24-7	1.02%	W/V	TXDS: orl-rat LD \bullet : 3200 mg/Kg
	Thymol Crystal	CAS# 89-83-8	0.01%	W/V	TXDS: orl-rat LD \bullet : 640 mg/Kg
	Water, Deionized ASTM Type II	CAS# 7732-18-5	Balance	V/V	None Established

SECTION 4 FIRST AID MEASURES

Buffer Solution, pH 4 (Red)

May be harmful if swallowed. May cause irritation. Avoid breathing vapors, or dusts. Use with adequate ventilation. Avoid contact with eyes, skin, and clothes. Wash thoroughly after handling. Keep container closed.

FIRST AID: SKIN: Wash exposed area with soap and water. If irritation persists, seek medical attention.

INGESTION: If swallowed, induce vomiting immediately after giving two glasses of water. Never give anything by mouth to an unconscious person.

SECTION 5 FIRE FIGHTING MEASURES

Fire Extinguisher Type: Any means suitable for extinguishing surrounding fire
None

Fire / Explosion Hazards:

Fire Fighting Procedure: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and clothing.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Absorb spill with inert material. Flush excess down drain.
Ventilate area of Leak or Spill. Keep Unnecessary and Unprotected People away from the area of Spill. Wear Appropriate Personal Protective Equipment as Specified in Section 8. Contain and Recover Liquid when Possible. Collect Liquid in an Appropriate Container or Absorb with an Inert Material (e.g., Vermiculite, Dry Sand, Earth). Do Not use Combustible Materials, such as Saw Dust. US Regulations (CERCLA) Require Reporting Spills and Releases to Soil, Water and Air in Excess of Reportable Quantities.

SECTION 7 HANDLING AND STORAGE

Store in a cool dry place. This Material is not considered hazardous. Handle using safe laboratory practices.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory Protection: None required

Ventilation

Local

Mechanical

Protective Gloves: Gloves to prevent skin exposure as rubber or vinyl

Eye Protection: Safety Glasses
w/Side Shields

Other Protective Equipment: Use safe laboratory handling procedures.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Melting Point:	~0° C	Percent Volatile by	> 99%
Boiling Point:	~100° C	Evaporation Rate	Information not available
Vapor Pressure:	Information not available	Evaporation Standard	
Vapor Density:	Information not available	Auto Ignition Temp	Not applicable

Buffer Solution, pH 4 (Red)

Solubility in Water:	Soluble	Lower Flamm. Limit in Air	Not applicable
Appearance /Odors:	Clear red solution/Slight benzoic acid odor	Upper Flamm. Limit in Air	Not applicable
Flash Point:	not flammable		
Specific Gravity:	~1		

SECTION 10 STABILITY AND REACTIVITY INFORMATION

Stability:	Stable
Conditions to Avoid:	High temperature, air
Materials to Avoid:	Strong acids and bases
Hazardous Decomposition	Not known to occur
Products:	
Hazardous polymerization:	Will Not Occur
Conditions to Avoid:	None known

SECTION 11

Toxicological Information

Carcinogenic References: NTP Carcinogen - Known: No, IARC Category- None

SECTION 12

Ecological Information

No Information Found.

SECTION 13

Disposal Considerations

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

SECTION 14

Transport Information

DOT Classification: Not Regulated

DOT Regulations may change from time to time. Please consult the most recent D.O.T. regulations.

SECTION 15

Regulatory Information

Chemical Inventory Status –
Part 1:Ingredient
Potassium Acid Phthalate (877-24-7)
TSCA Yes
EC Yes
Japan No
Australia Yes

Chemical Inventory Status –
Part 2:Ingredient
Potassium Acid Phthalate (877-24-7)
Korea Yes
DSL Yes
NDSL NO
Phil. Yes

Federal, State & International Regulations –
Part 1: Ingredient.

Potassium Acid Phthalate (877-24-7)
RQ NO

List Chemical Catg No
Page 3 of 4 TPQ NO

Federal, State &

International Regulations –
Part 2:Ingredient
Potassium Acid Phthalate (877-24-7)
CERCLA NO
261.33 No
8(d) No

Chemical Weapons Convention:No
TSCA 12 (b):No
CDTA:NO Mixture/Liquid)
SARA 311/312: Acute: Yes
Chronic: NO
Fire: No
Pressure: No
Reactivity: No
Australian Hazchem Code: None
Poison Schedule: None allocated

EYES: Wash eyes with plenty of water for at least 15 minutes, lifting lids occasionally. Seek Medical Aid. INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen

Buffer Solution, pH 4 (Red)

SECTION 16

Additional Information

Overexposure symptoms. Acute: Essentially non-hazardous.
Possible irritation of eyes/stomach. Chronic: None known.
Conditions aggravated/Target organs: none known.

Flammability

Health

Reactivity

Revisions

NFPA

	0	
7/28/2010	0.1	updated msds to 16 section from 10 section msds. STN

The information herein is believed to be accurate and is offered in good faith for the user's consideration and investigation. No warranty either expressed or implied is made for the completeness or accuracy of the information whether originating from the above mentioned company or not. Users of this material should satisfy themselves by independent investigation of current scientific and medical knowledge that the material