

pH 7 BUFFER (Color Code Green)

MATERIAL SAFETY DATA SHEET

INTEGRA Chemical Company
710 Thomas Ave SW
Renton, WA 98055
Phone: 425-277-9244
24 Hour Emergency Response: CHEMTREC 800-424-9300 (Outside USA 703-527-3887)

MSDS Number: B854.7A
Revision Date: 19-Sep-03
Revision #: 003

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Product Identification

Product Name: pH 7 BUFFER (Color Code Green)

Synonyms:

Chemical Formula: Mixture

Formula Weight:

Chemical Family: pH reference standard

Integra Product Numbers: B854.7A

Hazard Overview

HMIS Rating: 0-0-0-B NFPA Rating: NE

Warning Label:

Caution.

Use safe chemical handling practices. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling.

Components

<u>Component</u>	<u>CAS #</u>	<u>%</u>
Water	07732-18-5	99.1
Phosphoric Acid	07664-38-2	0.5
Potassium hydroxide	01310-58-3	0.3
Sodium hydroxide	01310-73-2	0.1
Thymol	00089-83-8	0.002

Physical Data

Boiling Point: No data Specific Gravity: 1.005 Water=1
Melting Point: No data Evaporation Rate: NA
Vapor Pressure: NA Vapor Density: NA Air = 1

Solubility:

Miscible with water.

Appearance and Odor:

Clear, green liquid. Slight medicinal odor.

Fire and Explosion Data

Flash Point: NA Test Method:
Auto-ignition Temperature: NA
Flammable Limits (% by volume in air): Upper: NA Lower: NA

Fire Extinguishing Media:

Material is not flammable. Use extinguishing media suitable to surrounding materials.

Special Firefighting Procedures:

Use water to cool nearby containers and structures. Wear full protective equipment, including suitable respiratory protection.

Unusual Fire and Explosion Hazards:

None identified

Health Hazard Information

Effects of Overexposure

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Health Hazard Information

Skin Contact:

No adverse symptoms or reactions expected.

Eye Contact:

Contact may be irritating to the eyes.

Ingestion:

Ingestion of small amounts is not likely to produce harmful effects.

Inhalation:

No harmful effects expected.

Chronic Effects of Overexposure:

None Identified

Exposure Limits:

	<u>TWA</u>	<u>OSHA PEL</u> <u>STEL</u>	<u>Ceiling</u>
Water	NE	NE	NE
Phosphoric Acid	1 mg/m3	NE	NE
Potassium hydroxide	NE	NE	2 mg/m3
Sodium hydroxide	NE	NE	2 mg/m3
Thymol	NE	NE	NE

	<u>TWA</u>	<u>ACGIH TLV</u> <u>STEL</u>	<u>Ceiling</u>
Water	NE	NE	NE
Phosphoric Acid	1 mg/m3	3 mg/m3	NE
Potassium hydroxide	NE	NE	2 mg/m3
Sodium hydroxide	NE	NE	2 mg/m3
Thymol	NE	NE	NE

Toxicity Data:

Water	No information available	
Phosphoric Acid	Irritation (eye, rabbit)	Corrosive
	Irritation (skin, rat) - 85% phosphoric acid	Corrosive
	LD50 (skin, rat) - 85% phosphoric acid	>1260 mg/kg
	LD50 (oral, rat) - 85% phosphoric acid	3500 mg/kg
Potassium hydroxide	LD50 (oral, rat)	273 mg/kg
Sodium hydroxide	Irritation (eye, rabbit)	Severe, 50 ug/24 hr
	Irritation (skin, rabbit)	Severe, 500 mg/24 hr
	LD50 (skin, rabbit)	1350 mg/kg
Thymol	LD50 (oral, rat)	980 mg/kg

Medical Conditions Generally Aggravated by Exposure:

None Identified

Target Organs:

None Identified

Reproductive Effects:

None Identified

Carcinogenicity:

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Health Hazard Information

Carcinogenicity:

None Identified

<u>Component</u>	<u>NTP Listing</u>	<u>IARC Listing</u>	<u>OSHA Regulated</u>
Water	No listing	No Listing	<input type="checkbox"/>
Phosphoric Acid	No listing	No Listing	<input type="checkbox"/>
Potassium hydroxide	No listing	No Listing	<input type="checkbox"/>
Sodium hydroxide	No listing	No Listing	<input type="checkbox"/>
Thymol	No listing	No listing	<input type="checkbox"/>

Emergency First Aid Procedures

Skin Contact:

Wash with soap and water. Seek medical attention if irritation develops.

Eye Contact:

Flush eyes with water. If irritation persists, seek medical attention.

Inhalation:

Remove to fresh air.

Ingestion:

Do not induce vomiting. If adverse symptoms develop, seek medical attention.

Additional First aid and Treatment Notes:

No information available

Reactivity Data

Stability: Stable

Hazardous Polymerization: Will Not Occur

Incompatibles:

None identified

Decomposition Products:

None known

Conditions to Avoid:

Contamination.

Spill and Disposal Procedures

Spill and Leak Procedures:

Prevent spread of spill. Absorb with sand or inert material. Sweep or scoop into a disposal container. Flush spill area with water.

Disposal Procedures:

Dispose in accordance with all Local, State and Federal regulations.

Protective Equipment

Ventilation:

Use adequate general or local exhaust ventilation to keep fume and/or dust levels as low as possible.

Respiratory Protection:

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Protective Equipment

Respiratory Protection:

None needed unless use generates annoying or irritating dusts, mists or vapors. Use a dust/mist respirator mask if necessary.

Skin and Eye Protective Equipment:

Safety glasses. Use good chemical handling practices.

Storage and Handling Precautions

Storage Area: GENERAL

Store in a cool, dry area. Protect containers from physical damage. Protect material from contamination. Sensitive standard, handle carefully. Thymol has been added as a preservative to prevent mold growth. Discard if black spots appear in solution. To maintain accuracy, buffers should be replaced every 6 months to 1 year.

Transportation Information

Regulated Material domestic ground transportation
 (reference: CFR Title 49, Transportation)

Proper Shipping Name:
 UN or NA Identification number: Hazard Class and Label:
 Packing Group: Subsidiary Risk and Label:

Regulated Material via Air Transportation

(reference: ICAO Technical Instructions for the Safe Transport of Dangerous Goods by Air)

Proper Shipping Name:
 UN Identification Number: Hazard Class and Label:
 Packing Group: Subsidiary Risk and Label:

Packing Instruction Max net qty per package

Passenger Aircraft:
 Cargo Aircraft:

Regulatory Information

<u>Component</u>	<u>TSCA</u>	<u>CERCLA</u>	<u>SARA EHS</u>		<u>SARA 313 Toxic Release</u>	
	<u>Inventory</u>	<u>RQ</u>	<u>TPQ</u>		<u>de minimus</u>	
Water	<input type="checkbox"/>	lbs	<input type="checkbox"/>	lbs	<input type="checkbox"/>	lbs
Phosphoric Acid	<input checked="" type="checkbox"/>	5000 lbs	<input type="checkbox"/>	lbs	<input checked="" type="checkbox"/>	1.0 lbs
Potassium hydroxide	<input checked="" type="checkbox"/>	1000 lbs	<input type="checkbox"/>	lbs	<input type="checkbox"/>	lbs
Sodium hydroxide	<input checked="" type="checkbox"/>	1000 lbs	<input type="checkbox"/>	lbs	<input type="checkbox"/>	lbs
Thymol	<input checked="" type="checkbox"/>	lbs	<input type="checkbox"/>	lbs	<input type="checkbox"/>	lbs
<u>SARA Hazard Categories:</u>	<u>Acute</u>	<u>Chronic</u>	<u>Flammability</u>	<u>Pressure</u>	<u>Reactivity</u>	
Water	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Phosphoric Acid	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Potassium hydroxide	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Sodium hydroxide	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Thymol	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<u>Clean Air Act Categories:</u>	<u>SOCMI</u>	<u>HAP</u>	<u>Volatile HAP</u>	<u>Organic HAP</u>	<u>Ozone Depleting</u>	
Water	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

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Regulatory Information

<u>Clean Air Act Categories:</u>	<u>SOCMI</u>	<u>HAP</u>	<u>Volatile HAP</u>	<u>Organic HAP</u>	<u>Ozone Depleting</u>
Phosphoric Acid	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Potassium hydroxide	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sodium hydroxide	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Thymol	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

MSDS Revision History:

002 - Changed header phone number

003 - Format revisions; updated header phone number

NE = Not established, NA = Not applicable or Not available

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***** END OF MSDS *****