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Material Safety Data sheet

1. PRODUCT IDENTIFICATION

Product Name:	OPTI R Reagent Pack	Information Number:	1-800-490-6784
Part Number:	BP7092	Emergency Number:	1-800-490-6784 (U.S. or Canada) 1-770-510-4444 (International)
Component Part No:	N/A	Product Line:	OPTI Medical
Catalog Number:	N/A	Instrument Type:	N/A
Preparation Date:	18NOV05	Last Update:	06FEB08

2. COMPOSITION / INFORMATION ON HAZARDOUS INGREDIENTS

CHEMICAL NAME	CAS #	% W / V	EXPOSURE LIMITS IN AIR				
			ACGIH		OSHA		OTHER
			TLV	STEL	PEL	STEL	

Reagent 1: Wash / Cal Solution

4-(2-Hydroxyethyl)piperazine-1-ethanesulfonic acid	7365-45-9	1-10%	N/A	N/A	N/A	N/A	N/A
No more hazardous components > 1%, > 0.1% carcinogen							

Reagent 2: QC1 Solution

4-(2-Hydroxyethyl)piperazine-1-ethanesulfonic acid	7365-45-9	1-10%	N/A	N/A	N/A	N/A	N/A
No more hazardous components > 1%, > 0.1% carcinogen							

Reagent 3: QC2 Solution

4-(2-Hydroxyethyl)piperazine-1-ethanesulfonic acid	7365-45-9	1-10%	N/A	N/A	N/A	N/A	N/A
No more hazardous components > 1%, > 0.1% carcinogen							

Reagent 4: QC3 Solution

4-(2-Hydroxyethyl)piperazine-1-ethanesulfonic acid	7365-45-9	1-10%	N/A	N/A	N/A	N/A	
No more hazardous components > 1%, > 0.1% carcinogen							

Reagent 5: N/A

Reagent 6: N/A

3. HAZARD IDENTIFICATION

Primary Routes of Entry:

Ingestion, skin and / or eye contact.

Inhalation:

Inhalation mists or sprays of these components may irritate the nose, throat and lungs. Symptoms are generally alleviated upon breathing fresh air.

Ingestion:

Ingestion of this product, especially in large quantities, may cause nausea or vomiting.

Skin Contact:

Skin contact may cause irritation.

Eye Contact:

May cause irritation on contact.

Chronic Exposure:

N/A

Medical Conditions Aggravated by Exposure:

N/A

Health Effects:

No adverse health effects should occur from routine use of this material in the manner specified by the manufacturer's instructions.

NFPA Rating



4. FIRST AID MEASURES

Inhalation:

If breathing becomes difficult, remove victim to fresh air. Seek medical attention.

Ingestion:

Rinse mouth; get medical attention.

Skin Contact:

In case of contact, flush skin with plenty of water. If reddening, inflammation or irritation develops, get medical attention.

Eye Contact:

Immediately flush eye(s) with large volumes of water for at least 15 minutes, occasionally lifting the lower and upper lids. Get medical attention immediately.

5. FIRE FIGHTING MEASURES

Flash Point (Method used): N/A

Flammable Limits - LEL: N/A

UEL: N/A

Extinguishing Media:

Use fire extinguishing media appropriate for site conditions.

Special Fire Procedures:

Structural firefighting gear and self-contained breathing apparatus will provide adequate protection if this product is in a fire area.

Unusual Fire and Exposure Hazards:

N/A

6. ACCIDENTAL RELEASE MEASURES

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

Use an absorbent material to contain / pick up the spilled solution. Place all contaminated disposables into a suitable container, seal label and hold for disposal.

7. HANDLING AND STORAGE

Store reagent packs as directed in the package insert.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Ventilation Data:

Supplemental ventilation is not required for the normal use of this product.

Respiratory Protection:

Respiratory protection is not required under normal use of this product.

Protective Gloves:

Wear appropriate protective gloves to prevent skin contact.

Other Protective Equipment:

Wear appropriate eye protection to prevent eye contact. Wear appropriate body protection to prevent skin contact.

Other Engineering Controls:

Eye wash stations and deluge showers

Work Practices:

Good laboratory technique should be used when handling this product. Observe appropriate chemical hygiene. Do not place in mouth.

Hygienic Practices:

Do not eat, drink, or smoke while working with product. Upon completion of work activities involving this product, wash hands thoroughly with soap and water.

9. PHYSICAL AND CHEMICAL PROPERTIES

For All Components Unless Otherwise Indicated

Relative Vapor Density (air = 1):	N/A	Evaporation Rate (nBuAc = 1):	N/A
Specific Gravity (water = 1):	N/A	Freezing / Melting Point:	0C
Solubility in Water:	Soluble in water	Boiling Point:	100C
Vapor Pressure, mm Hg @ 20° C:	N/A	pH:	7

Odor and Appearance Information:**Reagent 1:** Wash / Cal solution

Odorless, clear liquid. Organic buffer solution containing inorganic salts, O₂, N₂ and CO₂.

Reagent 2: QC1 solution

Odorless, slightly cloudy liquid. Organic buffer solution containing inorganic salts, O₂, N₂ and CO₂.

Reagent 3: QC2 solution

Odorless, clear liquid. Organic buffer solution containing inorganic salts, O₂, N₂ and CO₂.

Reagent 4: QC3 solution

Odorless, cloudy liquid. Organic buffer solution containing inorganic salts, O₂, N₂ and CO₂.

Reagent 5:

N/A

Reagent 6:

N/A

10. STABILITY AND REACTIVITY

Incompatibility (Materials to Avoid):

Strong bases, strong acids, and water reactive materials.

Hazardous Decomposition Products:

Thermal decomposition may emit carbon monoxide and carbon dioxide.

Will Hazardous Polymerization Occur?

Hazardous polymerization will not occur.

Conditions to Avoid / Polymerization:

N/A

Is the Product Stable?

Yes, under normal handling and storage conditions.

Conditions to Avoid / Stability:

Excess heat, flame or pressure.

11. TOXICOLOGICAL INFORMATION**Toxicity Data:**

4-(2-hydroxyethyl)piperazine-1-ethanesulfonic acid: LD50 (quail, oral) > 316 mg / kg

Reproductive Effects:

N/A

Target Organ Effects:

N/A

Carcinogenicity: No

CHEMICAL NAME	CAS #	% W / V	NTP Carcinogen		IARC	OSHA
			Known	Anticipated		
N/A						

12. ECOLOGICAL INFORMATION**Environmental Fate / Stability:**

N/A

Effect of Material on Plants or Animals:

N/A

Effect of Chemical on Aquatic Life:

N/A

13. DISPOSAL CONSIDERATIONS**EPA Waste Number and Proper Waste Disposal Method:**

Please consult local, state and federal regulations for additional guidance on disposal.

14. TRANSPORTATION INFORMATION

Is this Material Hazardous? Not regulated under transportation regulations.

Proper Shipping Name:	N/A	Packing Group:	N/A	UN Number:	N/A
Hazard Class Number:	N/A				

15. REGULATORY INFORMATION

U.S. SARA 313 Notice Requirement (40 CFR 372):

N/A

U.S. SARA Reportable Quantity (EHS RQ) / Threshold Planning Quantity (SARA 302; 40 CFR 355, App. A):

N/A

U.S. CERCLA Reportable Quantity (SARA 304; 40CFR Table 302.4):

N/A

U.S. TSCA Inventory Status:

This product is regulated by the Food and Drug Administration; it is exempt from the requirements of TSCA.

Other U.S. Federal Regulations:

N/A

California Safe Drinking Water and Toxic Enforcement Act (Proposition 65):

No component of this product is on the California Proposition 65 List.

16. OTHER INFORMATION

Other Comments:

N = No Y = Yes N/A = Not applicable or no information

DISCLAIMER

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