



# Material Safety Data Sheet

## VWR® Bluing Reagent RTU

### 1. Product and Preparation Information

<b>Product Identifier</b> VWR® Bluing Reagent RTU	<b>Product Use</b> Histology / Cytology and General Use Reagent	<b>Date Prepared</b> August, 2009
<b>Synonym / Chemical Name</b> Trizma Base Solution		<b>VWR Product #</b> 95057-852
<b>Manufacturer/ Preparer</b> Leica Biosystems Richmond, Inc. 5205 Route 12 Richmond, IL 60071	<b>Distributor</b> VWR International 1310 Goshen Parkway West Chester, PA 19380 800.932.5000	<b>Emergency Contact</b> Chemtrec USA and Canada 800.424.9300 Chemtrec International 703.527.3887 Canutec 613.996.6666

### 2. Preventive Measures

#### Personal Protection



#### NFPA



#### US DOT

Not Regulated

#### Canadian WHMIS

Not Regulated

#### Personal Protection

<b>Eyes</b>	Safety glasses
<b>Body</b>	Laboratory coat
<b>Respiratory</b>	NIOSH/MSHA approved respirator when ventilation is inadequate
<b>Hands</b>	Latex or nitrile gloves

#### Emergency Overview

**CAUTION!** Irritant. Avoid breathing vapors and mist. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling. For In Vitro Diagnostic Use. For Laboratory Use.

#### Engineering Controls

Ensure that eyewash stations and quick drench showers are proximal to the workstation or tissue processor.

#### Handling and Storage

Wash thoroughly after handling. Keep containers closed and out of reach of children. Store at room temperature.

#### Small Spill and Leak

Dilute with water and mop, or absorb with an inert dry material and place in an appropriate waste disposal container.

#### Large Spill and Leak

Absorb with DRY earth, sand or other non-combustible material. Avoid skin and eye contact. Prevent entry into sewers, basements or confined areas: dike if needed.

#### Waste Disposal

Unused Product – Disposal not regulated. *Spent product or spill clean up* - Follow all federal, state, local and provincial regulations.

### 3. Hazardous Ingredients

Hazardous Ingredient	% wt.	CAS Number	LD50	LC50	TDG PIN
TRIS (trizma) salts	<1.0	77-86-1	5,900 mg/kg oral rat	NA	Not Regulated

### 4. First Aid Measures

<b>Eye Contact</b>	Immediately flush eyes with plenty of water for at least 20 minutes. Get medical attention if irritation persists.
<b>Skin Contact</b>	Remove contaminated clothing immediately. Wash the affected areas with soap or mild detergent and large amounts of water for at least 20 minutes.
<b>Inhalation</b>	Move individual to fresh air immediately. If breathing is difficult, give oxygen. If breathing has stopped, administer artificial respiration. Get medical attention.
<b>Ingestion</b>	Never give anything by mouth to an unconscious person. Induce vomiting. Give no more than 2 glasses of water. Get medical attention immediately.

## 5. Physical Data

<b>Physical State</b> Liquid	<b>Odor and Appearance</b> Odorless, blue tint	<b>Odor Threshold (ppm)</b> NA	<b>Solubility</b> Easily soluble in water	<b>Auto-ignition Temp</b> NA
<b>Vapor Pressure</b> NA	<b>Vapor Density</b> NA (air-1)	<b>Evaporation Rate</b> N/A	<b>Boiling Point</b> 212° F (100° C)	<b>Flash Point CC</b> NA
<b>pH</b> 7.8 - 8.2	<b>Specific Gravity</b> 1 Water=1	<b>Coeff. Water/oil Dist.</b> N/A	<b>Freezing Point</b> NA	<b>Flammable Limits</b> NA

## 6. Fire and Explosion

<b>Flammability</b> Nonflammable	<b>Conditions</b> NA	<b>FI. Pt - Auto Ignition - Flammable Limits</b> See Physical Data above
<b>Explosivity</b> Not explosive under normal conditions of use.		
<b>Hazardous Combustion Products</b> CO, CO <sub>2</sub> , NO, NO <sub>2</sub> , SO <sub>2</sub> , SO <sub>3</sub>	<b>Means of Extinction</b> Small Fire – Use DRY chemical powder. Large Fire – Use alcohol-resistant foam, water spray or fog	

## 7. Reactivity

<b>Stability</b> Product is stable under normal conditions of use.	<b>Hazardous Decomposition Products</b> CO from incomplete combustion	
<b>Conditions of Reactivity</b> NA	<b>Hazardous Polymerization</b> No hazardous polymerization.	<b>Incompatibility</b> Slightly reactive with oxidizing materials

## 8. Toxicological Properties

<b>Routes of Entry</b> eyes, ingestion	<b>Target Organs</b> Skin, eyes and digestive tract					
<b>Effects of Acute Exposure</b>						
<b>Eye</b>	Slightly hazardous in case of eye contact (irritant)					
<b>Skin</b>	Slightly hazardous (irritant). Skin inflammation is characterized by itching, scaling, reddening or occasionally blistering.					
<b>Absorption</b>	NA					
<b>Inhalation</b>	Slightly hazardous in case of inhalation					
<b>Ingestion</b>	Hazardous in case of ingestion.					
<b>Effects of Chronic Exposure</b>						
Repeated contact may cause eye and skin irritation Repeated skin exposure may cause defatting of the skin.						
<b>Carcinogenic Effects</b>						
NA						
<b>Reproductive Toxicity</b>						
NA						
<b>Teratogenic and Mutagenic Effects</b> NA						
<b>Exposure Limits</b>	<b>OSHA PEL TWA</b>	<b>ACGIH TLV TWA</b>	<b>STEL</b>	<b>TWAEV (Ont.)</b>	<b>STE V (Ont.)</b>	<b>CEV (Ont.)</b>
TRIS (trizma) salts	NA	NA	NA	NA	NA	NA

## 9. Regulatory Information

<b>OSHA Hazardous</b> Irritant	<b>Cal. Prop. 65</b> Not listed	<b>Canadian WHMIS</b> Not regulated	<b>RCRA Regulated</b> Not regulated
<b>SARA 302/304</b> Not Listed	<b>SARA 313</b> Not listed	<b>CERCLA 102A</b> Not listed	<b>RQ</b> NA
<b>CWA 307</b> Not Listed	<b>CWA 311</b> Not Listed	<b>CAA 112 Release Prevention</b> Not listed	<b>CAA 112 Reg. Flam. Substance</b> Not Listed
<b>CAA 112 Reg. Toxic Substance</b> Not Listed	<b>TSCA Inventory</b> Listed	<b>EEC Flammability</b> NA	<b>CEPA DSL</b> All Ingredients Listed
<b>Proper US DOT Shipping Name</b> Not regulated	<b>TDG Classification</b> Not regulated	<b>IATA Classification</b> Not regulated	<b>Limited Quantity</b> NA

The information provided above is based upon unused product. Product characteristics may change after processing, requiring further classification.

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