



Material Safety Data Sheet

VWR® Frozen Section Compound

1. Product and Preparation Information

Product Identifier VWR® Frozen Section Compound Synonym / Chemical Name NA	Product Use Histology / Cytology and General Use Reagent	Date Prepared August, 2009 VWR Product # 95057-838 95057-840
Manufacturer/ Preparer Leica Biosystems Richmond, Inc. 5205 Route 12 Richmond, IL 60071	Distributor VWR International 1310 Goshen Parkway West Chester, PA 19380 800.932.5000	Emergency Contact 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

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

Emergency Overview

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 – Dispose as a regulated hazardous waste. *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
Polyvinyl alcohol	<15%	9002-89-5	>20 gm/kg oral rat 14.2 gm/kg oral mouse	NA	Not Regulated
Polyethylene glycol	<10%	25322-68-3	28 gm/kg oral rat 31gm/kg oral mouse	NA	

4. First Aid Measures

Eye Contact	Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation persists.
Skin Contact	Remove contaminated clothing immediately. Wash the affected areas with soap or mild detergent and large amounts of water for at least 15 minutes.
Inhalation	Move individual to fresh air immediately. If breathing is difficult, give oxygen. If breathing has stopped, administer artificial respiration. Get medical attention.
Ingestion	Never give anything by mouth to an unconscious person. Do not induce vomiting. Give no more than 2 glasses of water. Get medical attention immediately.

5. Physical Data

Physical State Liquid	Odor and Appearance Slight odor, slight blue	Odor Threshold (ppm) NA	Solubility Easily soluble in water	Auto-ignition Temp NA
Vapor Pressure NA	Vapor Density NA (air-1)	Evaporation Rate N/A	Boiling Point NA	Flash Point CC NA
pH N/A	Specific Gravity NA	Coeff. Water/oil Dist. N/A	Melting Point NA	Flammable Limits NA

6. Fire and Explosion

Flammability Nonflammable	Conditions NA	Fl. Pt - Auto Ignition - Flammable Limits See Physical Data above
Explosivity Not explosive under normal conditions of use.		
Hazardous Combustion Products NA	Means of Extinction Small Fire – Use DRY chemical powder. Large Fire – Use alcohol-resistant foam, water spray or fog	

7. Reactivity

Stability Product is stable under normal conditions of use.	Hazardous Decomposition Products CO, CO2, from incomplete combustion
Conditions of Reactivity NA	Incompatibility Acids.
Hazardous Polymerization No hazardous polymerization.	

8. Toxicological Properties

Routes of Entry	Ingestion and inhalation	Target Organs	Liver, kidney, gastrointestinal tract, reproductive and nervous systems
Effects of Acute Exposure			
Eye	Slightly hazardous in case of eye contact (irritant).		
Skin	Slightly hazardous (irritant).		
Absorption	NA		
Inhalation	Slightly hazardous by inhalation (irritant).		
Ingestion	Slightly hazardous in case of ingestion.		
Effects of Chronic Exposure			
NA			
Carcinogenic Effects			
Polyvinyl alcohol is classified as Group 3 (not classifiable) by IARC.			
Reproductive Toxicity			
NA			
Teratogenic and Mutagenic Effects			
NA			

Exposure Limits	OSHA PEL TWA	ACGIH TLV TWA	STEL	TWAEV (Ont.)	STE V (Ont.)	CEV (Ont.)
Polyvinyl alcohol	NA	NA	NA	NA	NA	NA
Polyethylene glycol	NA	NA	NA	NA	NA	NA

9. Regulatory Information

OSHA Hazardous No	Cal. Prop. 65 Not Listed	Canadian WHMIS Not Listed	RCRA Regulated Not regulated
SARA 302/304 Not Listed	SARA 313 Not Listed	CERCLA 102A Not Listed	RQ NA
CWA 307 Not Listed	CWA 311 Not Listed	CAA 112 Release Prevention Not Listed	CAA 112 Reg. Flam. Substance Not Listed

CAA 112 Reg. Toxic Substance Not Listed	TSCA Inventory Listed	EEC Flammability NA	CEPA DSL Listed
Proper US DOT Shipping Name Not regulated	TDG Classification Not regulated	IATA Classification Not regulated	Limited Quantity NA

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

This Material Safety Data Sheet has been prepared in accordance with the Canadian Controlled Products Regulations and 29CFR1910.1200. To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries make any warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. In no event shall Leica Biosystems be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages resulting from use of or reliance upon this information.