IDENTITY (As Used on Label and							
Dilute Formalin Fixative (Re	esidual in Preserved	Specimens)					
Section I							
Manufacturer's Name		Emergency Telephone Number					
Ward's Natural Science Establishment		Chemtrec 800-424-9300					
Address (Number, Street, City, State,	Telephone Number for Information						
5100 West Henrietta Road	800-962-2660						
Rochester, NY 14692-9012		Date Prepared November 6, 2003					
Section II - Hazardous Ingre	dients/Identity Infor	mation					
Hazardous Components (Specific Chemical Identity; Common Name(s))		CAS#	OSHA PEL	ACGIH TLV	Other Limits	%	
Formalin	50-00-0	0.75ppm	0.75ppm		1% to 4%		
Water		7732-18-5	N/A	N/A		96-99%	
Formalin is present in specime	n tissues as a						
result of initial fixation.							
Traces of fixative may also be	present as residual						
leachate in packing fluid.							
Section III - Physical/Chemic	al Characteristics						
Boiling Point		Specific Gravity (H ₂ O = 1)					
	>100C (210F)	<1.0					
Vapor Pressure (mm Hg.)	>1.0	Meiting Point N/A					
Vapor Density (AIR = 1)	N/A	Evaporation Rate n-butyl acetate = 1		<1			
Solubility in Water Completely soluble							

Section IV - Fire a						
Flash Point (Method	Used)	Flammable Limits			LEL	UEL
>180F					N/A	N/A
Extinguishing Med						
Use best media for	surrounding f	ire.				
Special Fire Fighti	_	es				
No special procedur						
Unusual Fire and			_			
Non-combustible lie		suai nazaro	S.			
Section V - Reactiv		_		-		
Stability	Unstable	No				
	Stable	Yes	Yes Strong oxidizing agents.		ts.	
Incompatability (M	laterials to Avoid)					
Hazardous Decom	position or B	yproducts	3			
Formaldehyde gas,	carbon dioxid	le, and carl	oon monoxi	de.		
Hazardous	May	No Conditions to Avoid				
Polymerization	Occur					
	Will Not	Yes	Strong ox	Strong oxidizing agents.		
	Occur					
Section VI - Health	Hazard Da	ta				
Route(s) of Entry:		Inhalation? Yes		Skin?		Ingestion?
				Yes		Not likely
of skin may occur with	include irritation h contact. May cancer, depend	cause allerging on lengt	gic skin reacti th and level o	ion or transien f exposure. H	t dermatitis in some uman evidence is in	de gas; dryness and irritation e individuals. Prolonged conclusive. Tumors have bee
Carcinogenicity:		NTP?		IARC Mo	nographs?	OSHA Regulated?
		No		1	al carcinogen	Yes
Signs and Symptor	ns of Exposu	re				
Dilute solution is a l			on of skin a	nd eyes poss	ible with contact.	
Medical Condition						
Chemical hypersens			_		ay be aggravated	by exposure.
Emergency and Fir						
Inhalation: remove t stopped. Get medica	to fresh air. G	ive oxyger yes: Flush	thoroughly	with water, i	ncluding upper ar	piration if beathing has nd lower lids. If irritation
ersists, get medical	attention. Sl	cin: Wash	thoroughly i	if contact occ	curs. Ingestion: In	duce vomiting. Get medic

attention immediately.

Section VII - Precautions for Safe Handling and Use

Steps to be Taken in Case Material is Released or Spilled

Material may be flushed to drain if local regulations permit. Provide adequate ventilation in spill area.

Waste Disposal Method

Discharge, treatment, and disposal may be subject to state and local regulations.

Precautions to be Taken in Handling and Storage

Use protective gear required. Provide adequate ventilation.

Other Precautions

For lab use only. Not for drug, food, or cosmetic use. Keep out of reach of children. Supervise activities conducted with specimens. Avoid prolonged breathing of vapors. Keep away from heat, sparks, or open flames. Keep containers tightly closed. Remove and wash contaminated clothing.

Section VIII - Control Measures

Respiratory Protection (Specify Type)

Not needed under normal laboratory conditions with adequate ventilation. PEL is 0.75ppm STEL 2.0 ppm

Ventilation	Local Exhaust Recommended	Special None required
	Mechanical Recommended	Other Adequate to maintain below exposure level
Protective Gloves	Recommended	Eye Protection Recommended

Other Protective Clothing or Equipment

Lab coat, apron, and eyewash station in close proximity to work area.

Work/Hygenic Practices

Wear protective equipment. Wash hands thoroughly after use.

FOR ADDITIONAL INFORMATION:

Contact Ward's Safety Manager during business hours at (800) 962-2660.

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