IDENTITY (As Used on Label and L																	
Dilute Formalin Fixative (Re	sidual in Preserved S	pecimens)															
Section I		Emanganay Talani	aana Numbau														
Manufacturer's Name Ward's Natural Science Establishment Address (Number, Street, City, State, and ZIP Code) 5100 West Henrietta Road		Emergency Telephone Number Chemtrec 800-424-9300 Telephone Number for Information 800-962-2660															
									Rochester, NY 14692-9012		Date Prepared November 6, 2003 Signature of Preparer(Optional)						
Hazardous Components (Specific Chemical Identity; Common Nam	ne(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.	mmagant og magidual																
Traces of fixative may also be leachate in packing fluid.	present as residual																
1 0																	
Section III - Physical/Chemic	cal Characteristics																
Boiling Point	>100C (210F)	Specific Gravity (H ₂ O = 1) <1.0															
Vapor Pressure (mm Hg.)	>1.0	Melting Point N/A															
Vapor Density (AIR = 1)	N/A	Evaporation Rate n-butyl acetate = 1 <1															

Clear liquid, may be discolored by body fluids to yellow, brown, or red. Pungent, acrid odor.

Section 1 1 Inc an	nd Explozion	i iiazai u			
Flash Point (Method)	Used)	Flammab	le Limits	LEL	UEL
>180F				N/A	N/A
Extinguishing Med	ia			•	
Use best media for s	surrounding fi	ire.			
Special Fire Fighti	ng Procedur	es			
No special procedur	es.				
Unusual Fire and I	Explosive Ha	zards			
Non-combustible lic	juid. No unus	ual hazards	5.		
Section V - Reactiv	ity Data				
Stability	Stability Unstable		Conditions to Avoid		
	C. 11		Strong oxidizing agents.		
	Stable	Yes	Strong oxidizing	g agents.	
Incompatability (Ma		Yes	Strong oxidizin	g agents.	_
Incompatability (Mo		Yes	Strong oxidizin	g agents.	
	aterials to Avoid)			g agents.	
Incompatability (Ma Hazardous Decomp Formaldehyde gas, o	nterials to Avoid)	yproducts		g agents.	
Hazardous Decom	nterials to Avoid)	yproducts			
Hazardous Decomp	nterials to Avoid) position or Bearbon dioxid	yproducts e, and carb	on monoxide.		
Hazardous Decomp Formaldehyde gas, of Hazardous	position or B carbon dioxid	yproducts e, and carb	on monoxide.	Avoid	
Hazardous Decomp Formaldehyde gas, of Hazardous	position or B carbon dioxid May Occur	yproducts e, and carb No	on monoxide. Conditions to	Avoid	
Hazardous Decomp Formaldehyde gas, of Hazardous	position or B carbon dioxid May Occur Will Not Occur	yproducts e, and carb No Yes	on monoxide. Conditions to	Avoid	
Hazardous Decomp Formaldehyde gas, of Hazardous Polymerization	position or B carbon dioxid May Occur Will Not Occur	yproducts e, and carb No Yes	on monoxide. Conditions to a strong oxidizing.	Avoid agents.	Ingestion?

Health Hazards (Acute and Chronic)

. Health hazards may include irritation of respiratory tract and nasal passages from formaldehyde gas; dryness and irritation of skin may occur with contact. May cause allergic skin reaction or transient dermatitis in some individuals. Prolonged exposure may lead to cancer, depending on length and level of exposure. Human evidence is inconclusive. Tumors have been induced in rats exposed to high concentrations (>10ppm) for prolonged periods.

Carcinogenicity:	NTP?	IARC Monographs?	OSHA Regulated?	
	No	A2 potential carcinogen	Yes	

Signs and Symptoms of Exposure

Dilute solution is a low level hazard. Irritation of skin and eyes possible with contact.

Medical Conditions Generally Aggravated by Exposure

Chemical hypersensitivity and pre-existing respiratory conditions may be aggravated by exposure.

Emergency and First Aid Procedures

Inhalation: remove to fresh air. Give oxygen if beathing is difficult. Give artificial respiration if beathing has stopped. Get medical attention. Eyes: Flush thoroughly with water, including upper and lower lids. If irritation persists, get medical attention. Skin: Wash thoroughly if contact occurs. Ingestion: Induce vomiting. Get medical 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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