Ward's Natural Science	р	hone: (716) 359-2502	COP		DS No6	94	
5100 W. Henrietta Road					(Revision)		
P.O. Box 92912 Rochester, New York 14692-9012		Emergency: (716) 342-4751 (After Business Hours)		Effective Date: 4/86			
·		(Aner Business Hours)			Elicule Date:		
SECTION I. MATERIAL IDENTIF	ICATION	REVIEWEI):	4/8	6 KGR		
Material Name: WARD-SAFE II Catalog Number(s): 62 W Series Holding solution for Dissection Materials 68 W Series Note: Dissection specimens originally fixed use- 69 W Series ing formaldehyde-based fixative. See Sec.IX							
(Mixture)			.	- -			
SECTION II. INGREDIENTS AND	HAZARDS		%		HAZARI) DATA	
Substances listed are those identified as present at a c is a potential carcinogen cited in OSHA Hazard Comu- shows, the identity of this substance may be made ava-	nunication Standard.	Where proprietary ingredient					
Proprietary Information 1,2 - Propanediol	:	<pre>< 2 OSHA (not listed) Oral Rat=LD =20gm, Skin(human)=10%/2 (irritation)</pre>			D =20gm/1)508/2		
Methanol (methyl alco	hol)		۲ 3	3 200ppm (OSHA/ACGIH)			
Water (remainder by w proprietary com							
SECTION III. PHYSICAL DATA		E SUBSTANCE 🗆 🕴	MIXTURE	X			
Boiling Point: OF.760mmAbout 210OSolubility In Water: InfiniteVapor Pressure:N/APercent volatile by volume:Vapor Density:Approx. 1.5 (water=1.0)About 3%Specific Gravity:About 1.0About 3%							
Appearance and Odor: Clear,	mobile fl	uid; almond odo	r.				
SECTION IV. FIRE AND EXPLOS	SION DATA	FLAMMABLE MATERIA	L 🗆 YES §	a NO	LOWER	UPPER	
Flash Point Auto Ignition	Contraction of the second second second	Flammability Limits	s In Air				
N/A N/	A	N/A			N/A	N/A	
Extinguishing Media: 🗴 Use Best Fire and Explosion Hazards: 🕅 N	-	Fire, or \Box See Below: elow:					
SECTION V. REACTIVITY DATA							
Stability: 🖾 Stable, Will Not Underge	o Hazardous Poly	ymerization					
Incompatibility: (Conditions	to avoid)	: Oxidizing ma	terials	s or	heavy r	netals.	
Hazardous Decomposition Products: Normal products of combustion (at thermal de- composition)carbon monoxide, carbon dioxide and water.							

Form essentially similar to OSHA Form 20.

-4 694

SECTION VI.	HEALTH HAZARD INFORMATION TLV (See Sect. II)					
methanol. contact ma	<u>Overexposure</u> : Cannot be made non-poisonous, contains Vapor may cause eye and skin irritation. Prolonged skin ay cause skin irritation to persons with sensitive skin. irritation is transient.					
First Aid Proced	ures: See Addendum Sheet for further information					
Eye Contact:	Flush with water for 15 minutes, including under eyelids.					
Skin Contact:	Wash with soap and water. Contact physician if irritation condition persists.					
Ingestion:	Cannot be made non-poisonous! Contains methanol. Can affect optic nerve resulting in blindness. Induce vomiting of cons- cious person by giving 2 glasses of water and pressing finger down throat. Contact physician immediately.					
SECTION VII.	SPILL, LEAK, AND DISPOSAL PROCEDURES					
Small Spills:	Wipe up.					
Large Spills:	Absorb onto sorbent material; discard as solid waste if local regulations permit.					
Disposal:	Material may be diluted (2:1) with water and flushed to sanitary sewer if local regulations permit.					
Always dispose through	approved TSD facility according to federal, state, and local regulations.					
SECTION VIII.	SPECIAL PROTECTION INFORMATION EXPOSURE GUIDELINES:					
Ventilation:	Good general ventilation is recommended. Local exhaust ventilation may be necessary in some dissection conditions.					
Respiratory Pro	ection: Not indicated.					
Skin Protection:	Plastic or rubber gloves are recommended. Avoid pro- longed skin contact.					
Eye Protection:	Safety glasses or goggles recommended. Contact lenses should not be worn when handling this material.					
SECTION IX.	SPECIAL HANDLING PRECAUTIONS AND COMMENTS DOT CLASS: N/A					
🔀 See Addendu	m Sheet For Additional Technical Information.					
ABILITY OR ANY OT make their own investi	is believed to be accurate and represents the best information currently available to us. However, WE MAKE NO WARRANTY OF MERCHANT- HER WARRANTY, EXPRESSED OR IMPLIED, with respect to such information, and we assume no liability resulting from its use. Users should gations to determine suitability of the information for their particular purposes.					
REV. #:_007	DATE: ferre, 1986 SIGNATURE Guild Villan Kenneth G. Rajuis. Safety Director					

Form essentially similar to OSHA Form 20.

694

ADDENDUM SHEET WARD-SAFE II

SECTION VI. HEALTH HAZARD INFORMATION

First Aid Procedures:

Skin Absorption: Repeated exposure may cause local irritation; wash affected areas with soap and water. Contact physician if irritation persists.

Inhalation: At room temperatures, exposure to material vapors is minimal; however, other fixative vapors may be present.

SECTION IX. SPECIAL HANDLING PRECAUTIONS AND COMMENTS-DOT CLASS N/A

Technical Information:

Avoid ingestion! Avoid prolonged skin contact. Practice reasonable caution and personal cleanliness. Use of apron or smock during dissection activities recommended.

Eye wash station near dissection activities recommended. See attached Addendum Sheet for additional information concerning the use of our dissection material products.

Raferrto MSDS #153 (5% Formalin Solution) or MSDS #154 (Embalming Solution) for further information regarding these solutions as primary fixatives, also 694 A Preserved Materials Addendum Sheet.

MSDS status--superceeds 3/81; Sections I--IX revised.

The above information is believed to be accurate and represents the best information
currently available to us. However, WE MAKE NO WARRANTY OF MERCHANTABILITY OR ANY
OTHER WARRANTY, EXPRESSED OR IMPLIED, with respect to such information, and we assume
no liability resulting from its use. Users should make their own investigations to
determine suitability of the information for their particular purposes for the suitability of the information for their particular purposes for the suitability of the information for their particular purposes for the suitability of the information for their particular purposes for the suitability of the information for their particular purposes for the suitability of the information for their particular purposes for the suitability of the information for the information for the suitability of the information for the suitability of the information for the suitability of the information for the informati
REV.# 002 DATE: the 19th SIGNATURE: Here V & Heren
(Safety Director)

20.

604 A

ADDENDUM SHEET Preserved Materials

Recommended Safety Practices: When handling and dissecting our preserved material products, students should be supervised and be instructed on these procedures before beginning work.

- 1. <u>Rubber gloves</u> should be worn at all times by persons handling preserving fluids, preserved specimen material, and during dissection.
- 2. Use of <u>Protective Evewear</u> is recommended during handling and dissection of preserved specimens and preserving fluids. In many instances internal preserving fluid presen in the specimen body cavity has the potential to emerge in a spurt with initial body cavity incision thus possibly striking the dissector in the eye. <u>Contact lenses</u> sho never be worn when handling or using any preserving or holding fluid.
- 3. <u>Reduction of "free formaldehyde"</u> Formaldehyde (formalin) acts in fixation by bindi (cross linking) tissue protein. Excess formaldehyde that is not bound up in tissue is therefore free to escape into the atmosphere. This "free formaldehyde" is preser both in the specimen (tissues and body cavity fluid), and the surrounding preserving fluid itself. It is this "free formaldehyde" vapor that you and your students may observe.

To reduce, "free formaldehyde", it is recommended that prior to student examination specimens be thoroughly washed in running tap water prior to both external as well a internal examination. Our testing has shown that such action will reduce titratabl formaldehyde by at least 60%.

- 4. Laboratory Areas should have a sufficient number of eye wash stations in close proximity to dissection activities.
- 5. Aprons or Laboratory Coats should be worn by dissectors.
- 6. Do not allow preserving fluid to come into continuous contact with skin. If preserv fluid is ingested, induce vomiting immediately by giving two glasses of water and sticking fingers down throat. Call physician or poison control center. Never give anything by mouth to an unconscious person.
- 7. Rooms where dissection is done should be well ventilated.

FIRST AID PROCEDURES: The following practices are recommended as minimal in case of the following exposures to any of our preserving fluids:

Eye Contact: Immediately flush eyes with running tap water, occasionally lifting the lower and upper eyelids. Contact lenses should not be worn while working with preserving fluids or during dissection. Get medical attention.

Prolonged Skin Contact: May cause irritant dermatitis or rash. Affected area should be washed with soap and water thoroughly for 3 to 5 minutes. Remove and wash clothing that may be contaminated. If irritation continues, consult physician.

Ingesticn: If conscious, give large volumes of water only, get individual to vomit by sticking finger down throat. NEVER encourage an unconscious person to vomit. Get medical attention immediately.

*Please consult specific MDSS for particulars

The above information is believed to be accurate and represents the best information currently available to us. However, WE MAKE NO WARRANTY OF MERCHANTABILITY OR ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, with respect to such information, and we assu no liability resulting from its use. Users should make their own investigations t determine suitability of the information for their particular purposes. Main DATE: 7/21/81 SIGNATURE: