## Material Safety Data Sheet (F1)

IDENTITY (As Used on Label and List) FORMALIN FIXED SPECIMEN(S) (Excluding	g Fetal Pigs, Ca	ts, Rabbit	s, Mink	, Grassfrogs, E	Bullfrogs)					
Section I				v Tolonhone N	hor					
Manufacturer's Name RANACO CORPORATION	2	Emergency Telephone Number 24HR Assistance CHEMTREC: 1-800-424-9300								
Address (Number, Street, City, State, and ZIP Code)	Telephone Number for Information									
4345 E. Irvington Road Tucson, AZ 85714	1-800-528-7023 (Arizona Time 8am-5pm)  Date Prepared									
TUCSON, AZ 007 14			August 7, 2003 Signature of Preparer (Optional)							
		*	ignature	of Preparer (Opti-	Olizij					
Section II - Hazardous Ingredients/Identity	y Information									
Hazardous Components (Specific Chemical Identity; Common Name(s))			S#	OSHA PEL	ACGIH	TLV	Other Limits Recommended STB_2 PPM			
Formalin, 3.7% Formaldehyde			0-0	.075 PPM	0.3 P	PM	Action Level 0.5 PPM	≤0.6		
Methanol 1.2%	Methanol 1.2%			200 PPM	200 P	PM	STEL 250PPN (Skin)	4 ≤.001		
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5 400 250			~,···							
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Section III - Physical/Chemical Character	istics									
Boiling Point	>214°C		Specific Gravity (H <sub>2</sub> O = 1)			<1.08				
Vapor Pressure (mm Hg.)	>1.0		Melting Point				N/A			
Vapor Density (AIR = 1)	Unknown		Evaporation Rate Butyl Acetate = 1			<1.0				
Solubility in Water Complete										
Appearance and Odor	.,									
Specimens with mild chemical odor.							·····			
Section IV – Fire and Explosion Hazard D Flash Point (Method Used)		mable Limi	_imits			LEL		VEL		
185°F						7% 73%		73%		
Extinguishing Media Use dry chemical, CO <sub>2</sub> or alcohol foam.										
Special Fire Fighting Procedures Wear fire fighting protective equipment and	a self-contained	l breathin	g appai	atus. Use best	t method	for sur	rounding fire	conditions.		
Unusual Fire and Explosive Hazards										

Section V - Reactivit	y Data						·		
Stability	Unstable	Conditions to Avoid							
	Stable	X	Strong oxidizing	agent; excess	sive hea	ting			
incompatibility (Materials t									
Strong oxidizing, alkali		ols, ur	ea, oxides, isocya	inates, caustic	s, annyc	Irides			
Hazardous Decomposition Formaldehyde gas, ca	or Byproducts rhon monoxide ar	nd cart	on dinvide						
Hazardous Polymerization	May Occur	10 00/1	Conditions to Avoi	d					
	Will Not Occur	Х				cur at low	temperatures causi	ng the formation of	
	<u> </u>		paraformaldehy	rde, a white so	ila.				
Section VI – Health H	azard Data								
Route(s) of Entry:	Inhalation?			Skin?			Ingestion?		
	Yes			Yes			Yes		
Health Hazards (Acute and		Evant i	aud and vanar a	ar anuna irrita	tion lar	ontina. Ta	.via		
May cause respiratory	antation. Skill & t	_ye. L	цию апо уарог п	lay cause irrita	uon. mę			,	
Carinogenicity:	. hbranzaina ania	ta b	ana an tha hania	of animal avide		NTP?	IARC Monographs?	OSHA Regulated?	
	rmaldehyde is probably carcinogenic to humans on the basis of animal ev sted by ACGIH as an A2 industrial substance suspect of carcinogenic pote							140	
man. OSHA does not					101		1		
Signs and Symptoms of Ex		ionna	idenyde as a care	alogen.		<u> </u>	<u> </u>	<u> </u>	
Irritation of respiratory		in.							
Medical Conditions Genera	lly Aggravated by Ex	posure							
Repeated skin exposur		natitis	or other allergic r	eactions.					
Emergency and First Aid P		::	a EVECIMasku		E"	- BHILAI	ATION, Dames	d	
SKIN: Wash with soap INGESTION: Seek med								resn air.	
				iny or the abov	e sympe	ons persi	51.		
Section VII – Precauti Steps to Be Taken in Case i							,		
Ventilate area of spill.	Fliminate all sour	ces of	ianition Remove	non-essential	nerson	nel Wear	proper protective en	urinment and	
clothing. Absorb mater									
governmental regulation						опоросии	comply wandarapp		
Waste Disposal Method				*********					
Dispose of contaminate	ed product and ma	aterials	used in cleaning	up spills or lea	aks in a	manner ap	proved for this mate	erial. Consult	
appropriate federal, sta			igencies to ascen	tain proper disp	oosal pro	ocedures.			
Precautions to Be Taken in						(- 41 f	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1.1	
Store at room temperat after handling.	ture in a dry, well-	ventna	ted place. Keep :	specimen cont	ainer tig	ntiy closed	i when no in use. W	ash thoroughly	
Other Precautions									
Do not get in eyes, on s	skin, or on clothing	ı. Do	no ingest. Even th	ose container	s that ha	ve heen e	mntied will retain or	nduct residue and	
vapors. Obey hazard v	varnings and hand	ile em	pty containers as	if full. Do not	cut. arin	d. weld or	drill on or near this o	ontainer.	
Section VIII - Control									
Respiratory Protection (Spe									
Normal classroom use	with adequate ver	ntilatio	n does not require	e the use of sp	ecial res	piratory pr	rotection. If use con-	ditions generate	
formaldehyde furnes at		gulatio	ins, use of a resp	irator is require					
Ventilation Loca	Exhaust				Special				
	Mechanical Mechanical room ventilation.				Other				
	ves are recommen		Eye Protection	Chemical co	ralee un	lace a full	face piece respirato	rie alen wara Itia	
Old	vos are recomme	idea.		generally rec	nanized	that conta	ct lenses may contri	hute to the	
				severity of an				armeter har at file	
Other Protective Clothing or	r Equipment				-,,0	· , ·			
Long sleeved shirt, trou	sers, and safety s	hoes.							
Work/Hygienic Practices Eye wash station and s	ofoti abourne obo	مظاملين	i adt al aldaliaua	mmodiata idali	ite of or		1		

## FOR ADDITIONAL INFORMATION Contact Ranaco's Safety Manager during business hours at (520) 790-7737

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