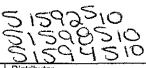
Material Safety Data Sheet (F2)



2 1266₂10 2 1288₂10

IDENTITY (As Used on Label and List) FORMALIN FIXED FETAL PIGS				Distributor FISHER SCIENTIFIC							
Section I								· · · · · · · · · · · · · · · · · · ·			
Manufacturer's Name RANACO CORPORATION Address (Number, Street, City, State, and ZIP Code) 4345 E. Irvington Road Tucson, AZ 85714		Emergency Telephone Number 24HR Assistance CHEMTREC: 1-800-424-9300 Telephone Number for Information 1-800-528-7023 (Arizona Time 8am-5pm) Date Prepared April 22, 2010 Signature of Preparer (Optional)									
Section II – Hazardous Ingredients/Identity Information											
Hazardous Components (Specific Chemical Identity; Common Name(s))			S#	OSHA PEL	ACGI	H TLV	Other Limit Recommend		onal		
Formalin, 3.7% Formaldehyde			00-0	.075 PPM	0.3	РРМ	STEL 2 PPN Action Level (PPM		6		
Methanol 12%			56-1	200 PPM		РРМ	STEL 250PP (Skin)	М			
Propylene Glycol			55-6	Not Established		ot lished	Not Establish	ed ≤ 2.	0		
Phenol		108-95-2		5 PPM (Skin)		-	IDLH 250 PP	M ≤ 0.0)3		
											
				<u></u>	··· ···		· · · · · · · · · · · · · · · · · · ·				
							<u></u>				
Section III - Physical/Chemical Characte	ristics	·	, .								
Boiling Point	N/A		Specific Gravity (H₂O = 1)			Unknown					
Vapor Pressure (mm Hg.)	Unknown		Melting Point				N/A				
Vapor Density (AIR = 1)	Unknown		Evaporation Rate Butyl Acetate = 1				Unknown				
Solubility in Water Complete											
Appearance and Odor Fetal pig specimen with mild chemical odor.											
Section IV - Fire and Explosion Hazard D											
Flash Point (Method Used) Unknown						LEL UEL Unknown Unknown		UEL Unknown			
Extinguishing Media Use dry chemical, CO ₂ or alcohol foam.											
Special Fire Fighting Procedures Wear fire fighting protective equipment and a self-contained breathing apparatus. Use best method for surrounding fire conditions.											
Unusual Fire and Explosive Hazards N/A											

Castley V. Decethal	4. Data	·	<u></u>							
Section V – Reactivi		T								
Stability	Unstable		Conditions to Avoid							
	Stable	X	Strong oxidizing agent; excessive heating							
Incompatibility (Materials to Avoid)										
Strong oxidizing, alkalis and acids, phenols, urea, oxides, isocyanates, caustics, anhydrides										
Hazardous Decomposition										
	Formaldehyde gas, carbon monoxide and carbon dioxide									
Hazardous Polymerization	May Occur	}	Conditions to Avoid							
	Will Not Occur	Х	Non-hazardous polymerization may occur at low temperatures causing the formation of paraformaldehyde, a white solid.							
Section VI – Health Hazard Data										
Route(s) of Entry:	Inhalation?		-	Skin?			Ingestion?			
	Yes			Yes			Yes			
Health Hazards (Acute and		••••		1			1			
May cause respiratory		Eve: L	iquid and vapor n	nav cause irrita	tion. Ind	estion: To	oxic			
Carinogenicity:						NTP?	IARC Monographs?	OSHA Regulated?		
Formaldehyde is prob	ably carcinogenic	to hun	ans on the basis	of animal evide	ence.	ł]	No		
Listed by ACGIH as a						ł		į		
man. OSHA lists formaldehyde as a potential carcinogen.										
Irritation of respiratory		dn.								
Medical Conditions Generally Aggravated by Exposure										
Repeated skin exposure may cause dermatitis or other allergic reactions.										
Emergency and First Aid I	Procedures							·		
SKIN: Wash with soa	p and water for 15							fresh air.		
INGESTION: Seek m	edical attention. Se	eek me	edical attention if a	any of the abov	e sympt	oms persi:	st.			
							·			
Section VII – Precautions for Safe Handling and Use Steps to Be Taken in Case Material is Released or Spilled										
Ventilate area of spill.				non-essential	personn	el. Wear	proper protective ed	uipment and		
clothing. Absorb mate										
governmental regulati					unio, 10.	аюрован.	Compily with an app	100010		
Waste Disposal Method	one on opin report	ng, na	riding and dispos	ai oi wasic.						
Dispose of contamina	ted product and m	aterial	s used in cleaning	run spills or lea	aks in a r	manner ar	oppoved for this mate	rial Consult		
appropriate federal, st							Spin vod for this mate	andi. Odnout		
			agencies to ascer	rain brober dist	JUSAI DIC	cedules.				
Precautions to Be Taken in Handling and Storage Store at room temperature in a dry, well-ventilated place. Keep specimen container tightly closed when no in use. Wash thoroughly										
after handling.	ataro in a ary, won	TOTICIE	ited place. Iteep	specimen com	unior agi	my Globec	2 WHICH HO HI USG, Y	asii tilolougiliy		
Other Precautions										
Other Precautions Do not get in eyes, on skin, or on clothing. Do no ingest. Even those containers that have been emptied will retain product residue and										
vapors. Obey hazard warnings and handle empty containers as if full. Do not cut, grind, weld or drill on or near this container.										
Section VIII - Contro	The second secon	aio en	pty containers as	ii iuii. Do not (out, grint	a, weld of	unii on or near this t	Williamer.		
			<u> </u>		 		·			
Respiratory Protection (Sp. Normal classroom use	pecity (ype) with adaquata va	ntilatio	n done not requir	a that upa of an	anial raa	nirotonen	rataction If use som	ditiona apparata		
						piratory pi	otection. It use con	uluons generate		
formaldehyde fumes a		egulati	ons, use or a resp	irator is require						
Ventilation Loc	cal Exhaust		•		Special					
-	-1				045					
	chanical	anical Other hanical room ventilation.								
				0/ 1 1	l			 		
Protective Gloves G	oves are recomme	enaea.	Eye Protection	Eye Protection Chemical goggles unless a full-face piece respirator is also worn. It is generally recognized that contact lenses may contribute to the severity of an eye injury.						
Other Protective Clothing or Equipment										
Long sleeved shirt, trousers, and safety shoes.										
Work/Hygienic Practices										
Eye wash station and safety showers should be available in the immediate vicinity of any potential exposure.										

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

NOTICE: RANACO expressively disclaims all express or implied warranties of merchantability and fitness for a particular purpose, with respect to the product or information provided herein.

All information appearing herein is based upon data obtained from the manufacturer and/or recognized technical sources. While the information is believed to be accurate, RANACO makes no representations as to its accuracy or sufficiency. Conditions of use are beyond RANACO's control and therefore users are responsible to verify this data under their own operating conditions to determine whether the product is suitable for their particular purposes and they assume all risks of their use, handling and disposal of the product, or from the publication or use of, or reliance upon, information contained herein. This information relates only to the product designated herein, and does not relate to its use in combination with any other material or in any other process.