



Date Issued: February 3, 2011
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MATERIAL SAFETY DATA SHEET

Section 1: Chemical Product and Company Identification

Cat#: SV-FIO
 Part Name: Immersion Oil Type FF Code 159
 Supplier: Triangle Biomedical Sciences, Inc. (TBS)
 3014 Croasdaile Drive
 Durham, NC 27705
 Phone: 919-384-9393

SECTION 2 - HAZARDOUS INGREDIENTS		SPECIFIC CHEMICAL IDENTITY INFORMATION			
HAZARDOUS COMPONENTS	(COMMON NAME (S))	OSHA PEL CEILING	ACGIH TLV T.W.A.	OTHER LIMITS RECOMMENDED	% (OPTIONAL)
TRADE SECRET	ALIPHATIC / ALICYCLIC HYDROCARBONS	5 mg / CUBIC METER *	N.D.F.		
*PEL CEILINGS & TLV T.W.A.S IF ANY SHOULD NOT OCCUR IF C.I.U. AND SECTIONS 7 & 8 FOLLOWED.					
NOTE: PRODUCT NORMALLY SOLD IN ¼ OZ. TO 16 OZ. QUANTITIES. USED IN SINGLE DROP TO A FEW CUBIC CENTIMETERS PER APPLICATION. SEE REQUISITIONER FOR SPECIFIC QUANTITIES INVOLVED.					
SECTION 3 - PHYSICAL / CHEMICAL CHARACTERISTICS					
BOILING POINT AT 760 mm Hg	> 230 °C > 450 °F	SPECIFIC GRAVITY (H ₂ O = 1) TEMP. 23 °C / 73 °F		< 1.0	
VAPOR PRESSURE IN mm Hg (TEMP.)	73 °F < .5	MELTING POINT		< 32 °F	
VAPOR DENSITY (AIR = 1) AT (mm Hg & TEMP.)	760 73 °F N.A.	EVAPORATION RATE AT 760 mm Hg & 23 °C / 73 °F (MINERAL OIL = 1)		ca 1	
SOLUBILITY IN WATER AT (mm Hg & TEMP.)	760 73 °F NEGLECTIBLE	APPEARANCE AND ODOR		COLORLESS, ODORLESS, VISCOUS LIQUID	
SECTION 4 - FIRE AND EXPLOSION HAZARD DATA					
FLASH POINT (CUP METHOD USED)	430 °F (221 °C) C.O.C.	FLAMMABLE LIMITS	LEL	N.D.F.	UEL N.D.F.
EXTINGUISHING MEDIA	TREAT AS PETROLEUM GREASE / OIL FIRE, USE FOAM OR DRY CHEMICAL.				
SPECIAL FIRE FIGHTING PROCEDURES	NONE				
UNUSUAL FIRE AND EXPLOSION HAZARDS	NONE				
ABBREVIATIONS: N.A. = NOT APPLICABLE; N.D.F. = NO DATA FOUND; TR.S. = TRADE SECRET; N.E. = NOT ESTABLISHED; C.I.U. = CONDITIONS OF INTENDED USE; < = LESS THAN; > = GREATER THAN.					

NA = not applicable

NL = not listed

NE = not established

NNR = not normally required

SECTION 5 - REACTIVITY DATA				
STABILITY	UNSTABLE			
	STABLE	YES		
INCOMPATIBILITY (MATERIALS AND / OR CONDITIONS TO AVOID)				
STRONG OXIDIZERS, HEAT ABOVE 150 °F				
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID	
	WILL NOT OCCUR	X	N.A.	
SECTION 6 - HEALTH HAZARD DATA				
ROUTE (S) OF ENTRY: (NOT LIKELY AT C.I.U.)	INHALATION? YES	SKIN? SLIGHT	MUCOUS MEMBRANES / EYES? YES	INGESTION? POSSIBLE
HEALTH HAZARDS (ACUTE AND CHRONIC).				
NONE KNOWN AT C.I.U.				
CARCINOGENICITY LISTED:	NTP? NO	IARC MONOGRAPHS? NO	OSHA CARCINOGEN? NO	
SIGNS AND SYMPTOMS OF EXPOSURE				
OILY FEEL				
MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE				
N.D.F.				
EMERGENCY AND FIRST AID PROCEDURES: INCLUDE POSSIBLE MATERIAL THAT MAY HAVE BEEN MIXED WITH LIQUID DURING USE.				
INHALATION – (NOT LIKELY AT C.I.U.) IF CONCERN ARISES, REMOVE TO FRESH AIR.				
SKIN & CLOTHES – PROMPT SOAP AND WATER WASH.				
EYES – FLUSH WITH WATER. IF IRRITATION EXISTS, CONSULT PHYSICIAN.				
INGESTION – LOW ORDER OF TOXICITY, FIRST AID NORMALLY NOT NEEDED (CONSULT PHYSICIAN).				
SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE – FOLLOW C.I.U. SEE SECTION 1				
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED				
ABSORB, PLACE IN PLASTIC (POLYETHYLENE OR POLYPROPYLENE) CONTAINER, CAP OR TWIST TIE CLOSURE. (SEE SECTION 8)				
WASTE DISPOSAL METHOD:				
ALL CHEMICAL DISPOSALS MUST BE IN ACCORDANCE WITH CURRENT LOCAL, STATE, AND FEDERAL REGULATIONS.				
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING				
STORE BETWEEN 65 °F AND 90 °F (18 °C AND 32 °C)				
OTHER PRECAUTIONS				
AVOID CONTINUAL DIRECT SUNLIGHT.				
SECTION 8 - CONTROL MEASURES; WHEN USED AS INTENDED (SEE SECTION 1)				
RESPIRATORY PROTECTION (SPECIFY TYPE)				
SEE "VENTILATION"				
VENTILATION	LOCAL EXHAUST	*	SPECIAL	N.A.
	MECHANICAL (GENERAL)	*	OTHER	N.A.
PROTECTIVE GLOVES	* SURGICAL TYPE , IF WORN		EYE PROTECTION	*
OTHER PROTECTIVE CLOTHING OR EQUIPMENT				
*				
* = NOT MANDATORY EXCEPT AS GOOD LABORATORY INDUSTRIAL PRACTICES. ALWAYS USE GOOD HYGIENIC WORK / PRACTICES AS TO HOUSEKEEPING, PERSONAL HYGIENE, USE OF CHEMICAL LAB APRON AND SPLASH GOGGLES, AVOIDANCE OF VAPORS, PROLONGED AND REPEATED SKIN CONTACT.				
SPECIAL PRECAUTIONS				
N.A.				

Section 9: Other Information

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END OF MSDS

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