

bioLogic Chemical Works

MATERIAL SAFETY DATA SHEET

MFG.CODE # 180

SECTION I

MANUFACTURER'S NAME BioLogic Chemical Works		EMERGENCY TELEPHONE NO. 248-941-0347	
ADDRESS (Street, City, State and Zip Code) P.O. BOX 82501 Rochester, MI 48308			
CHEMICAL NAME AND SYNONYMS N/A		TRADE NAME AND SYNONYMS BIO SHINE	
CHEMICAL FAMILY N/A		FORMULA N/A	

SECTION II – HAZARDOUS INGREDIENTS

HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES	CAS#	%	TLV (UNITS)
Diethylene Glycol Monomethyl Ether	(CAS# 111-90-0)	>1	N/A
Tributoxy Ethyl Phosphate	(CAS# 78-51-3)	>1	N/A
Wax Emulsion	(CAS# 9002-88-4)	>1	N/A
Alkali Soluble Resin	(CAS# 68911-89-7)	>1	N/A
Acrylic Polymer Emulsion	(CAS# 62180-77-2)	>1	N/A

All components of this product are listed on the E.P.A./TSCA inventory of chemical substances.

SECTION III – PHYSICAL DATA

BOILING POINT °F	212	SPECIFIC GRAVITY (H2O = 1)	1.02
VAPOR PRESSURE (mm. Hg.)	N/A	PERCENT VOLATILE BY VOLUME (%)	75
VAPOR DENSITY (AIR = 1)	N/A	EVAPORATION RATE (water =1)	1
SOLUBILITY IN WATER	emulsion	PH	8.9
APPEARANCE AND ODOR Milky white liquid with waxy odor.			

SECTION IV – FIRE AND EXPLOSION DATA

FLASH POINT (Method Used) None	T.O.C.	FLAMMABLE LIMITS	LeI N/A	UeI N/A
EXTINGUISHING MEDIA Use extinguishing media suitable for fighting surrounding fire.				
SPECIAL FIRE FIGHTING PROCEDURES Fire fighters should wear full protective clothing including self-contained respiratory equipment operated in a positive mode.				
UNUSUAL FIRE AND EXPLOSION HAZARDS None				

(Continued on reverse side)

SECTION V – HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE N/A	PRIMARY ROUTES OF ENTRY Inhalation Skin Contact X Other (Specify)		
EFFECTS OF OVEREXPOSURE Eyes- irritation. Skin- prolonged contact may cause irritation. Inhalation- possible irritation to respiratory tract upon prolonged inhalation. Ingestion- nausea.			
EMERGENCY AND FIRST AID PROCEDURE Eyes- flush with copious amounts of water lifting lids and removing contact lenses to ensure complete irrigation- get medical attention. Skin- flush with water and then wash with soap and water, launder contaminated clothing before reuse- get medical attention if irritation persists. Inhalation- remove to fresh air and assist breathing as necessary- get medical attention. Ingestion- give several glasses of water to dilute material- get medical attention.			
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE None Known			
CARCINOGEN:	NTP	IARC	OTHER
No			

SECTION VI – REACTIVITY DATA

STABILITY	UNSTABLE	CONDITIONS TO AVOID
	STABLE	Freezing
INCOMPATIBILITY (Materials to avoid) Strong Oxidizers		
HAZARDOUS DECOMPOSITION PRODUCTS Oxides of Carbon		
HAZARDOUS POLYMERIZATION	MAY OCCUR WILL NOT OCCUR	CONDITIONS TO AVOID None
	X	

SECTION VII – SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED Use absorbent material to soak up spill. Shovel or sweep into container for disposal.
WASTE DISPOSAL METHOD In accordance with all Local, State, and Federal regulations.

SECTION VIII – SPECIAL PROTECTION INFORMATION

SPECIAL RESPIRATORY PROTECTION (Specify type) Not required		
VENTILATION	LOCAL EXHAUST normal ventilation adequate	SPECIAL N/A
	MECHANICAL (General) normal ventilation adequate	OTHER N/A
PROTECTIVE GLOVES Impervious	EYE PROTECTION Chemical Goggles	
OTHER PROTECTIVE EQUIPMENT Eyewash and safety shower.		

SECTION IX – SPECIAL PRECAUTIONS

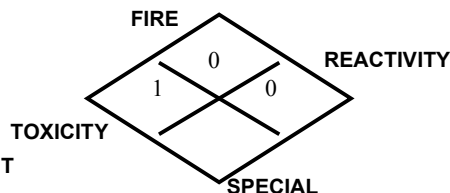
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING Avoid contact- wear protective clothing and wash thoroughly after using. Avoid inhalation of vapors. Do not take internally. Avoid freezing. Keep container closed when not in use.
OTHER PRECAUTIONS Keep Out of Reach of Children.

HMIS SYMBOL

HEALTH	1
FLAMMABILITY	0
REACTIVITY	0

HMIS	NFPA
SEVERE 4	EXTREME 4
SERIOUS 3	HIGH 3
MODERATE 2	MODERATE 2
SLIGHT 1	SLIGHT 1
MINIMAL 0	INSIGNIFICANT 0

NFPA SYMBOL



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PREPARATION DATE December 14, 2006
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