

BioLogic Chemical Works

MATERIAL SAFETY DATA SHEET

MFG.CODE # 117

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 LogicCool		
CHEMICAL FAMILY N/A	FORMULA N/A		

SECTION II – HAZARDOUS INGREDIENTS

HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES	%	TLV (UNITS)
Triethanolamine (CAS# 102-71-6)	>1	N/A
Boramide (CAS# 68954-07-4)	>1	N/A
Fatty Acid Ester (CAS# 68139-61-7)	>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 (H ₂ O = 1)	1.02
VAPOR PRESSURE (mm. Hg.)	N/A	PERCENT VOLATILE BY VOLUME (%)	85
VAPOR DENSITY (AIR = 1)	N/A	EVAPORATION RATE (=1) water	1
SOLUBILITY IN WATER	Complete	PH	9.9

APPEARANCE AND ODOR

Clear amber to light brown liquid with no odor.

SECTION IV – FIRE AND EXPLOSION DATA

FLASH POINT (Method Used)	T.O.C.	FLAMMABLE LIMITS	LeI	UeI
None			N/A	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 <input checked="" type="checkbox"/> Other (Specify)		
EFFECTS OF OVEREXPOSURE Eyes- irritation. Skin- prolonged contact may cause drying of skin with possible irritation and/or dermatitis. Inhalation- N/A. Ingestion- nausea, vomiting, diarrhea.			
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. Ingestion- if conscious, give several glasses of water and induce vomiting- get medical attention.			
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE None Known			
CARCINOGEN: No	NTP	IARC	OTHER

SECTION VI – REACTIVITY DATA

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

SECTION VII – SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED Flush to sewer with copious amounts of water or use absorbent material to soak up spill.
WASTE DISPOSAL METHOD In accordance with all Local, State, and Federal Regulations.

SECTION VIII – SPECIAL PROTECTION INFORMATION

SPECIAL RESPIRATORY PROTECTION (Specify type) None 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

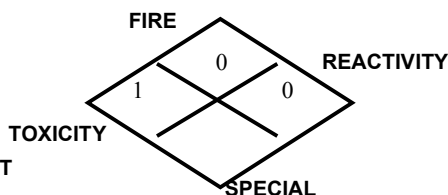
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING Avoid contact- wear protective clothing and wash thoroughly after using. Do not take internally. Avoid freezing. Keep container closed when not in use.
OTHER PRECAUTIONS Keep Out of Reach of Children

HMIS SYMBOL

HEALTH	1
FLAMMABILITY	0
REACTIVITY	0

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

NFPA SYMBOL



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