

BioLogic Chemical Works

MATERIAL SAFETY DATA SHEET

MFG.CODE # 160

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 Calcium Chloride		TRADE NAME AND SYNONYMS Arctic Zone	
CHEMICAL FAMILY Inorganic Salt		FORMULA CaCl ₂	

SECTION II – HAZARDOUS INGREDIENTS

HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES	%	TLV (UNITS)
Calcium Chloride	(CAS# 10043-52-4)	>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	3515	SPECIFIC GRAVITY (H₂O = 1)	64 lbs / ft ³
VAPOR PRESSURE (mm. Hg.)	N/A	PERCENT VOLATILE BY VOLUME (%)	0
VAPOR DENSITY (AIR = 1)	N/A	EVAPORATION RATE (=1)	N/A
SOLUBILITY IN WATER	Complete	PH (1% Solution)	9
APPEARANCE AND ODOR			
White pellets with no odor.			

SECTION IV – FIRE AND EXPLOSION DATA

FLASH POINT (Method Used)	FLAMMABLE LIMITS	LeI	UeI
None	T.O.C.	N/A	N/A
EXTINGUISHING MEDIA			
N/A			
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 Not Established	PRIMARY ROUTES OF ENTRY Inhalation <input checked="" type="checkbox"/> Skin Contact <input checked="" type="checkbox"/> Other (Specify)		
EFFECTS OF OVEREXPOSURE Eyes- irritation and possible corneal injury. Skin- irritation and possible superficial burns. Inhalation- dust will be irritating. Ingestion- low toxicity LD ₅₀ (rate) 2500 mg/kg.			
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- induce vomiting by giving several glasses of water and sticking finger down throat- get medical attention immediately. *Note to Physician- stain eyes for corneal injury. If cornea is burned instill antibiotic steroid preparation frequently.			
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE None Known			
CARCINOGEN: No	NTP	IARC	OTHER

SECTION VI – REACTIVITY DATA

STABILITY	UNSTABLE		CONDITIONS TO AVOID Absorbs water from atmosphere- keep container closed when not in use.
	STABLE	X	
INCOMPATIBILITY (Materials to avoid) Metals will corrode upon prolonged contact.			
HAZARDOUS DECOMPOSITION PRODUCTS None			
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 Sweep up and return to container or discard.
WASTE DISPOSAL METHOD In accordance with all Local, State, and Federal Regulations.

SECTION VIII – SPECIAL PROTECTION INFORMATION

SPECIAL RESPIRATORY PROTECTION (Specify type) Particle dust mask.		
VENTILATION	LOCAL EXHAUST Used out of doors.	SPECIAL N/A
	MECHANICAL (General) Used out of doors	OTHER N/A
PROTECTIVE GLOVES Impervious	EYE PROTECTION Chemical Goggles.	
OTHER PROTECTIVE EQUIPMENT Eyewash and safety shower.		

SECTION IX – SPECIAL PRECAUTIONS

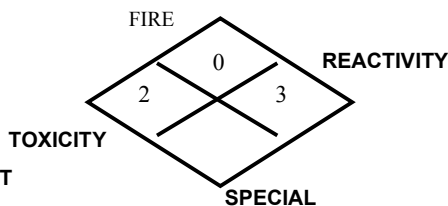
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING Avoid contact- wear protective clothing and wash thoroughly after using. Avoid inhalation of dust- wear particle dust mask if dusting occurs. Do not take internally. Keep container closed when not in use- absorbs water from the atmosphere.
OTHER PRECAUTIONS Keep Out of Reach of Children


HMIS SYMBOL

HEALTH	2
FLAMMABILITY	0
REACTIVITY	3

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

NFPA SYMBOL



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PAGE TWO:	Arctic Zone