BioLogic Chemical Works MATERIAL SAFETY DATA SHEET

MFG.CODE # 121A

SECTION I					
EMERGENCY TELEPHONE NO.					
248-941-0347					
Rochester, MI 48308					
TRADE NAME AND SYNONYMS					
Ez Patch Fast Set (PART A)					
FORMULA					
N/A					

SECTION II – HAZARDOUS INGREDIENTS				
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS	%	TLV (UNITS)		
Bisphenol A Based Epoxy Resin	(CAS# 25068-38-6)	>1	N/A	
Alkyl Glycidyl Ether	(CAS# 68609-96-1)	>1	N/A	

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

00+	SPECIFIC GRAVITY (H2O = 1) PERCENT VOLATILE BY VOLUME (%)	1.13		
00	DEDCENT VOLATILE BY VOLUME (%)			
.09	PERCENT VOLATILE BY VOLUME (%)	0		
vier	EVAPORATION RATE (=1) N-Butyl Acetate	slower		
igible	PH	N/A		
APPEARANCE AND ODOR				
	igible	IVIEI , , ,		

Clear to light amber viscous liquid with characteristic acrylate odor.

SECTION IV – FIRE AND EXPLOSION DATA						
FLASH POINT (Method Used) FLAMMABLE LIMITS Lel Uel						
			Not	Determined		
200+°F	(Setaflash)					
EXTINGUISHING MEDIA	EXTINGUISHING MEDIA					

Water Fog, Dry Chemical, Foam, Carbon Dioxide

SPECIAL FIRE FIGHTING PROCEDURES

Fire fighters should wear full protective clothing including self-contained respiratory equipment operated in a positive mode. Use water spray to keep containers cool.

UNUSUAL FIRE AND EXPLOSION HAZARDS

High temperatures and fire conditions may cause rapid and uncontrolled polymerization which can result in explosions and the violent rupture of containers.

	SECTION V	– HEALTH H	ZARD DATA	
THRESHOLD LIMIT VALUE	PRIMARY ROUTES C		ion Skin Contact X	Other (Specify)
No OSHA/ACGIH limits have				(0,000,000)
been established				
EFFECTS OF OVEREXPOSURE	1	1 1	1.11.7	1: ::::::::::::::::::::::::::::::::::::
Eyes- moderately irritating. Skin- n			may cause blisters,	may cause skin sensitization.
Inhalation- may cause respiratory tr		tation.		
Eyes- flush with copious amounts of		and removing co	ntact lenses to ensu	re complete irrigation- get medical
attention. Skin- flush with water an				
attention if irritation persists. Inhala				
Ingestion- if appreciable quantities				
MEDICAL CONDITIONS AGGRAVATED I				
		l. Persons with pr	e-existing skin or re	spiratory tract allergies may have an
increased chance of allergic reaction	•			
CARCINOGEN: No	NTP	IARC		OTHER
110				
	SECTION	VI – REACTI	VITY DATA	
STABILITY	UNSTABLE		CONDITIONS TO	AVOID
	STABLE	X	Excessive heat	
INCOMPATIBILITY (Materials to avoid)				
Strong Acids, Bases, Amines, Merc				
HAZARDOUS DECOMPOSITION PRODU		en aog		
Oxides of Carbon, Aldehydes, and HAZARDOUS	MAY OCCUR	ances	CONDITION	S TO AVOID
POLYMERIZATION	WILL NOT OCCUR	,	None	O TO AVOID
	1	<u> </u>		
5	SECTION VII -	SPILL OR LEA	K PROCEDUR	ES
STEPS TO BE TAKEN IN CASE MATERIA				
				nt material to soak up spill. Shovel
or sweep into container for disposa	ıl. Wash spill area	with detergent so	ution.	
WASTE DISPOSAL METHOD	15115	1		
In accordance with all Local, State	, and Federal Regu	lations.		
SECT	TION VIII — SDE	CIAL DROTE	CTION INFORM	ATION
SPECIAL RESPIRATORY PROTECTION		CIAL PROTE	TION IN OKW	ATION
Use NIOSH approved respirator if		neated to produce	vapors	
VENTILATION LOCAL		reacted to produce	, up or s.	SPECIAL
	l ventilation adequa	te		N/A
	NICAL (General)			OTHER
	l ventilation adequa			NA
PROTECTIVE GLOVES Impervious		EYE PROT Chemical		
OTHER PROTECTIVE EQUIPMENT		Chemical	Goggies	
Eyewash and safety shower				
	SECTION IX	- SPECIAL P	RECAUTIONS	
PRECAUTIONS TO BE TAKEN IN HANDI				
Avoid contact- wear protective clot				
ventilation. Do not take internally.	Avoid storage in a	reas of excessive	heat or near sources	s of ignition.
OTHER PRECAUTIONS	Vaan Oi	ut of Booch of Cl	ildran	
	Keep Ot	it of Reach of Ch	Haren	
				NAME Lohn Datashay
HMIS SYMBOL		NFPA SYMBOL		John Petoskey SIGNATURE
LIEALTH		FIRE		SIGNATURE
HEALTH 2 HMIS		FIRE		
FLAMMABILITY 1 SEVERE REACTIVITY 0 SERIOUS			REACTIVITY	TITLE
REACTIVITY 0 SERIOUS MODERAT		$\langle 2 \rangle$		Technical Support PREPARATION DATE
SLIGHT	4 CLICUT	TOXICITY	\	July 9, 2009
MINIMAL				PHONE NUMBER
			SPECIAL	248-941-0347
				PAGE TWO: Ez
				Patch Fast Set (PART A)

BioLogic Chemical Works MATERIAL SAFETY DATA SHEET

MFG.CODE # 121B

SECTION I				
MANUFACTURER'S NAME	EMERGENCY TELEPHONE NO.			
BioLogic Chemical Works 248-941-0347				
ADDRESS (Street, City, State and Zip Code)				
P.O. BOX 82501 R	ochester, MI 48308			
CHEMICAL NAME AND SYNONYMS	TRADE NAME AND SYNONYMS			
Mixture Ez Patch Fast Set (PART B)				
CHEMICAL FAMILY	FORMULA			
Aliphatic A	nine N/A			

SECTION II – HAZARDOUS INGREDIENTS			
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS	%	TLV (UNITS)	
Dimethylenetiramine (DETA)	(CAS# 111-40-0)	>1	2.33 g/kg (rat)
Bisphenol A	(CAS# 80-05-7)	>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	>404	SPECIFIC GRAVITY (H2O = 1)	1.02
VAPOR PRESSURE (mm. Hg.)	<0.1	PERCENT VOLATILE BY VOLUME (%)	0
VAPOR DENSITY (AIR = 1)	heavier	EVAPORATION RATE (=1) n-Butyl Acetate	1
SOLUBILITY IN WATER	partial	PH	11.5
APPEARANCE AND ODOR Clear liquid with amine odor	•	<u>.</u>	

Clear liquid with amine odor.

SECTION IV – FIRE AND EXPLOSION DATA					
FLASH POINT (Method Used)		FLAMMABLE LIMITS	Lel	Uel	
200+°F	Setaflash		N/A	N/A	

EXTINGUISHING MEDIA

Water Fog, Alcohol Foam, Dry Chemical, Carbon Dioxide

SPECIAL FIRE FIGHTING PROCEDURES

Fire fighters should wear full protective clothing including self-contained respiratory equipment operated in a positive mode. Use water spray to keep containers cool.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Nitrogen Oxides and Nitrogen containing organic material may be released upon combustion may cause lung damage (Pulmonary edema).

(Continued on reverse side)

OFOTION V. LIFALTILLIA ZADD DATA					
THRESHOLD LIMIT VALUE PRIMARY ROUTES OF ENTRY Inhalation X Skin Contact X Other (Specify)					
700 ppm/ H					
Eyes- vapors and liquid are irritating and corrosive to eyes- prolonged contact may cause blindness. Skin- corrosive to skin,					
may cause sensitization. Inhalation- may be corrosive to upper respiratory tract, may be toxic if inhaled. Ingestion- corrosive to mouth, throat, and stomach.					
EMERGENCY AND FIRST AID PROCEDURE					
Eyes- flush with copious amounts of water lifting lids and removing contact lenses to ensure complete irrigation- get medical					
	•	ater and then wash with soap and water, launder contaminated			

clothing before reuse- get medical attention. Inhalation- remove to fresh air and assist breathing as necessary- get medical attention. Ingestion- DO NOT INDUCE VOMITING- give one glass of water unless victim is drowsy, convulsing, or unconscious- get medical attention immediately.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

Persons with pre-existing eye, skin, or respiratory disorders.

CARCINOGEN: NTP **IARC** OTHER No

SECTION VI - REACTIVITY DATA						
STABILITY	UNSTABLE			CONDITIONS TO AVOID		
	STABLE	X		Excessive heat and open flames		
INCOMPATIBILITY (Materials to avoid)						
Strong Oxidizers	Strong Oxidizers					
HAZARDOUS DECOMPOSITION PRODUCTS						
Oxides of Carbon and Nitrogen, Nitrogen containing organic compounds						
HAZARDOUS	MAY OCCUR			CONDITIONS TO AVOID		
POLYMERIZATION	WILL NOT OCCU	IR	v	None		

SECTION VII – SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Eliminate all sources of ignition and ventilate area. Use absorbent material to soak up spill. Shovel or sweep into container for disposal. Clean area with detergent solution.

WASTE DISPOSAL METHOD

In accordance with all Local, State, and Federal Regulations.

SECTION VIII – SPECIAL PROTECTION INFORMATION					
SPECIAL RESPIRATORY PROT					
Use NIOSH approved respi	irator in areas where TLV has bee	en exceeded.			
VENTILATION	LOCAL EXHAUST		SPECIAL		
	To control TLV		N/A		
	MECHANICAL (General) OTHER				
	To control TLV		N/A		
PROTECTIVE GLOVES		EYE PROTECTION			
Impervious		Chemical Goggles			
OTHER PROTECTIVE EQUIPMENT					
Eyewash and safety shower	ſ				

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

CORROSIVE MATERIAL- avoid contact- wear protective clothing and wash thoroughly after using. Avoid inhalation of vapors or mists- use only with adequate ventilation. Do not take internally. Avoid storage in areas of excessive heat or near sources

NFPA SYMBOL

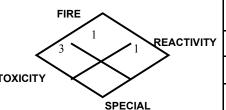
OTHER PRECAUTIONS

of ignition. Keep container closed when not in use. Keep Out of Reach of Children

HMIS SYMBOL

HEALTH	3
FLAMMABILITY	1
REACTIVITY	1

NFPA HMIS SEVERE EXTREME SERIOUS HIGH **MODERATE** MODERAT 2 0 INSIGNIFICANT **SLIGHT** MINIMAL



NAME John Petoskey **SIGNATURE** TITLE Technical Support PREPARATION DATE July 9, 2009 PHONE NUMBER 248-941-0347

PAGE TWO: Ez Patch Fast Set (PART B)

BioLogic Chemical Works MATERIAL SAFETY DATA SHEET

MFG.CODE # 121C

SECTION I							
MANUFACTURER'S NAME	EMERGENCY TELEPHONE NO.						
TRI-CHEM CORPORATION	248-941-0347						
ADDRESS (Street, City, State and Zip Code)							
P.O. BOX 82501 Roc	hester, MI 48308						
CHEMICAL NAME AND SYNONYMS	TRADE NAME AND SYNONYMS						
N/A	Ez Patch Fast Set (PART C)						
CHEMICAL FAMILY	FORMULA						
N/A	N/A						

SECTION II – HAZARDOUS INGREDIENTS					
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES		%	TLV (UNITS)		
Silicon Dioxide	(CAS# 7631-86-9)	>1	10 mg/m ³		
Titanium Dioxide	(CAS# 13463-67-7)	<1	N/A		
Carbon Black	(CAS# 1333-86-4)	<1	N/A		

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

SPECIFIC GRAVITY (H2O = 1) PERCENT VOLATILE BY VOLUME (%)	70 lbs/ft
PERCENT VOLATILE BY VOLUME (%)	
` '	0
EVAPORATION RATE (=1)	N/A
PH	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

SECTION V – HEALTH HAZARD DATA						
	SECTION V - HE	ALIH HAZ	ARD DATA			
THRESHOLD LIMIT VALUE 10 mg/m³ (as dust)	PRIMARY ROUTES OF ENTE	RY Inhalation	X Skin Contac	ct Other (Specify)		
EFFECTS OF OVEREXPOSURE						
Eyes- irritation. Inhalation-prolonged	d or repeated inhalation of d	ust may cause in	ritation to nasal	and respiratory tracts.		
EMERGENCY AND FIRST AID PROCED				1		
Eves- flush with copious amounts	of water lifting lids and i	emoving contac	et lenses to er	nsure complete irrigation- get medical		
attention. Skin- wash with soap an						
attention.				, ,		
MEDICAL CONDITIONS AGGRAVATED	BY EXPOSURE					
None Known						
CARCINOGEN:	NTP	IARC 2A		OTHER		
	0=0=10111//					
	SECTION VI -	REACTIVIT				
STABILITY	UNSTABLE		CONDITIONS	TO AVOID		
	STABLE	X	None			
INCOMPATIBILITY (Materials to avoid)						
Hydrofluoric Acid						
HAZARDOUS DECOMPOSITION PRODU	JCTS					
None	I way access					
HAZARDOUS POLYMERIZATION	MAY OCCUR			ONS TO AVOID		
POLIMERIZATION	WILL NOT OCCUR	X	None			
	DECTION VIII OBILI	ODIENI	BBOOEBU	DEO		
	SECTION VII - SPILI		PROCEDU	KES		
STEPS TO BE TAKEN IN CASE MATERI		D				
Sweep up and return to container WASTE DISPOSAL METHOD	for reuse.					
	and Federal Pegulations					
In accordance with all Local, State	e, and rederal Regulations	•				
SFC'	TION VIII – SPECIAL	PROTECT	ON INFOR	MATION		
SPECIAL RESPIRATORY PROTECTION		III				
Dust mask	(Opcony type)					
	EXHAUST			SPECIAL		
	ntrol TLV			N/A		
MECHA	NICAL (General)			OTHER		
	ntrol TLV			N/A		
PROTECTIVE GLOVES		EYE PROTECT	ION	•		
Impervious		Chemical Go	ggles			
OTHER PROTECTIVE EQUIPMENT						
Eyewash and safety shower						
	SECTION IX - SF	PECIAL PRE	CAUTIONS	S		
PRECAUTIONS TO BE TAKEN IN HAND				-		
Avoid inhalation of dust. Do not t						
OTHER PRECAUTIONS						
	Keep Out of Re	each of Childre	n			
				NAME		
HMIS SYMBOL				John Petoskey		
HIVIS STWIBOL	NF	PA SYMBOL		SIGNATURE		
HEALTH 1 LIMIG	NED *	FIRE 🔨		your sont		
FLAMMABILITY 0 SEVERE		0				
OLVEINE	3 HIGH	/\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	REACTIV	Tachnical Support		
MODERAT		$\langle \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$	· /	Technical Support PREPARATION DATE		
SLIGHT	ΙΟΛΙΟΙΙ	·y 🗸 🔪	/	July 9, 2009		
MINIMAL				PHONE NUMBER		
		SPI	ECIAL	248-941-0347		
				PAGE TWO: Ez Patch Fast Set (PART C)		
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