

Material Safety Data Sheet

24 Hour EMERGENCY ASSISTANCE			GENERAL MSDS ASSISTANCE
CHEMTREC: (800) 424-9300			B.D. CLASSIC (562) 944-6177
ACUTE HEALTH → 2	FIRE → 1	REACTIVITY → 0	HAZARD RATING → LEAST - 0 SLIGHT - 1 MODERATE - 2 HIGH - 3 EXTREME - 4
* For acute and chronic health effects refer to the discussion in Section III			

SECTION I	NAME
PRODUCT	:BDC 7200G CRACK PATCH GEL - RESIN A
CHEMICAL NAME	:MODIFIED BISPHENOL A - EPICHLOROHYDRIN BASED EPOXY RESIN
CHEMICAL FAMILY	:EPOXY RESIN

SECTION II-A	PRODUCT/INGREDIENT		
NO.	COMPOSITION	CAS NUMBER	PERCENT
1	4,4 ISOPROPYLIDENEDIPHENOL-EPICHLOROHYDRIN RESIN	25068-38-6	70-100%
2	OXIRANE, MOMO [(C12-14-ALKYLOXY)METHYL] DERSVIS	68609-97-2	<15%
3	FUMED SILICA	7631-86-9	<15%
4	PROPRIETARY INGREDIENTS		<20%

COMPONENT 1 IS AN EPOXY RESIN PRODUCED BY THE CONDENSATION REACTION OF EPICHLOROHYDRIN AND BISPHENOL-A. THESE RAW MATERIALS ARE CONSUMED IN THE PROCESS. RESIDUAL LEVEL OF EPICHLORHYRIN IS TYPICALLY 2-3 PPM IN THE PRODUCT.

SECTION II-B	ACUTE TOXICITY DATA		
NO.	ACUTE ORAL LD50	ACUTE DERMAL LD50	ACUTE INHALATION LC50
P	NOT AVAILABLE		
1	30,000 MG/KG (RAT)	>1,200 MG/KG (RAT)	NO DATA AVAILABLE
2	17,100 MG/KG (RAT)	2.0 G/KG (RAT)	NOT AVAILABLE

SECTION III	HAZARDS INFORMATION
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THE HEALTH EFFECTS NOTED BELOW ARE CONSISTENT WITH REQUIREMENTS UNDER THE OSHA HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200). THIS MATERIAL IS CONSIDERED HAZARDOUS.

FORM: THIXOTROPIC GEL/PASTE

EMERGENCY OVERVIEW: WARNING! CAUSES EYE AND SKIN IRRITATION. MAY CAUSE ALLERGIC SKIN REACTION. MAY CAUSE RESPIRATORY TRACT IRRITATION.

POTENTIAL ACUTE HEALTH EFFECTS:

INHALATION: SLIGHTLY IRRITATING TO THE RESPIRATORY SYSTEM.
INGESTION: NOT EXPECTED TO BE HARMFUL UNDER NORMAL CONDITIONS OF USE.
SKIN: IRRITATING TO SKIN. MAY CAUSE SENSITIZATION BY SKIN CONTACT.
EYES: IRRITATING TO EYES.

POTENTIAL CHRONIC HEALTH EFFECTS

CHRONIC EFFECTS: NO KNOWN SIGNIFICANT EFFECTS OR CRITICAL HAZARDS
CARCINOGENICITY: NO KNOWN SIGNIFICANT EFFECTS OR CRITICAL HAZARDS
MUTAGENICITY: NO KNOWN SIGNIFICANT EFFECTS OR CRITICAL HAZARDS
TERATOGENICITY: NO KNOWN SIGNIFICANT EFFECTS OR CRITICAL HAZARDS
DEVELOPMENTAL EFFECTS: NO KNOWN SIGNIFICANT EFFECTS OR CRITICAL HAZARDS
FERTILITY EFFECTS: NO KNOWN SIGNIFICANT EFFECTS OR CRITICAL HAZARDS
TARGET ORGANS: NO KNOWN SIGNIFICANT EFFECTS OR CRITICAL HAZARDS

OVER-EXPOSURE SIGNS/SYMSPTOMS

INHALATION: ADVERSE SYMPTOMS MAY INCLUDE THE FOLLOWING: RESPIRATORY
TRACK IRRITATION, COUGHING
INGESTION: NO SPECIFIC DATA
SKIN: ADVERSE SYMPTOMS MAY INCLUDE THE FOLLOWING: IRRITATION,
REDNESS
EYES: ADVERSE SYMPTOMS MAY INCLUDE THE FOLLOWING: PAIN OR IRRITA-
TION, WATERING, REDNESS
MEDICAL CONDITIONS AGGRAVATED BY OVER-EXPOSURE: PRE-EXISTING SKIN
DISORDERS MAY BE AGGRAVATED BY OVER-EXPOSSURE TO THIS
PRODUCT.

SECTION IV OCCUPATIONAL EXPOSURE LIMITS

NO.	PEL/TWA	OSHA		ACGIH		OTHER
		PEL/CEILING	TLV/TWA	TLV/STEL		
1	NONE ESTABLISHED					
2	NONE ESTABLISHED					

SECTION V EMERGENCY AND FIRST AID PROCEDURES

EYE CONTACT

IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR 15 MINUTES WHILE HOLDING EYELIDS OPEN. GET MEDICAL ATTENTION.

SKIN CONTACT

REMOVE CONTAMINATED CLOTHING/SHOES AND WIPE EXCESS FROM SKIN. FLUSH SKIN WITH WATER. FOLLOW BY WASHING WITH SOAP AND WATER. IF IRRITATION OCCURS, GET MEDICAL ATTENTION. DO NOT REUSE CLOTHING UNTIL CLEANED. CONTAMINATED LEATHER ARTICLES, INCLUDING SHOES, CANNOT BE DECONTAMINATED AND SHOULD BE DESTROYED TO PREVENT REUSE.

INHALATION

REMOVE VICTIM TO FRESH AIR AND PROVIDE OXYGEN IF BREATHING IS DIFFICULT. GIVE ARTIFICIAL RESPIRATION IF NOT BREATHING. GET MEDICAL ATTENTION.

INGESTION

WASH OUT MOUTH WITH WATER. REMOVE DENTURES IF ANY. MOVE EXPOSED PERSON TO FRESH AIR. KEEP PERSON WARM AND AT REST. IF MATERIAL HAS BEEN SWALLOWED AND THE EXPOSED PERSON IS CONSCIOUS, GIVE SMALL QUANTITIES OF WATER TO DRINK. STOP IF THE EXPOSED PERSON FEELS SICK AS VOMITING MAY BE DANGEROUS. DO NOT INDUCE VOMITING UNLESS DIRECTED TO DO SO BY MEDICAL PERSONNEL. IF VOMITING OCCURS, THE HEAD SHOULD BE KEPT LOW SO THAT VOMIT DOES NOT ENTER THE LUNGS. GET MEDICAL ATTENTION IF ADVERSE HEALTH EFFECTS PERSIST OR ARE SEVERE. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. IF UNCONSCIOUS, PLACE IN RECOVERY POSITION AND GET MEDICAL ATTENTION IMMEDIATELY. MAINTAIN AN OPEN AIRWAY. LOOSEN TIGHT CLOTHING SUCH AS A COLLAR, TIE, BELT OR WAISTBAND.

PROTECTION OF FIRST AID PERSONNEL

NO ACTION SHALL BE TAKEN INVOLVING ANY PERSONAL RISK OR WITHOUT SUITABLE TRAINING. IT MAY BE DANGEROUS TO THE PERSON PROVIDING AID TO GIVE MOUTH-TO-MOUTH RESUSCITATION. WASH CONTAMINATED CLOTHING THOROUGHLY WITH WATER BEFORE REMOVING IT, OR WEAR GLOVES.

NOTE TO PHYSICIAN

NO SPECIFIC TREATMENT. TREAT SYMPTOMATICALLY. CONTACT POISON TREATMENT SPECIALIST IMMEDIATELY IF LARGE QUANTITIES HAVE BEEN INGESTED OR INHALED.

SECTION VI	HANDLING AND STORAGE
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HANDLING: PUT ON APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT. EATING, DRINKING AND SMOKING SHOULD BE PROHIBITED IN AREAS WHERE THIS MATERIAL IS HANDLED, STORED AND PROCESSED. WORKERS SHOULD WASH HANDS AND FACE BEFORE EATING, DRINKING AND SMOKING. PERSONS WITH A HISTORY OF SKIN SENSITIZATION PROBLEMS SHOULD NOT BE EMPLOYED IN ANY PROCESS IN WHICH THIS PRODUCT IS USED. DO NOT GET IN EYES OR ON SKIN OR CLOTHING. DO NOT BREATHE VAPOR OR MIST. DO NOT INGEST. USE ONLY WITH ADEQUATE VENTILATION. WEAR APPROPRIATE RESPIRATOR WHEN VENTILATION IS INADEQUATE. KEEP IN THE ORIGINAL CONTAINER OR AN APPROVED ALTERNATIVE MADE FROM A COMPATIBLE MATERIAL, KEPT TIGHTLY CLOSED WHEN NOT IN USE. DO NOT REUSE CONTAINER.

STORAGE: STORE IN ACCORDANCE WITH LOCAL REGULATIONS. STORE IN ORIGINAL CONTAINER PROTECTED FROM DIRECT SUNLIGHT IN A DRY, COOL AND WELL-VENTILATED AREA, AWAY FROM INCOMPATIBLE MATERIALS AND FOOD AND DRINK. KEEP CONTAINER TIGHTLY CLOSED AND SEALED UNTIL READY FOR USE. CONTAINERS THAT HAVE BEEN OPENED MUST BE CAREFULLY RESEALED AND KEPT UPRIGHT TO PREVENT LEAKAGE. DO NOT STORE IN UNLABELED CONTAINERS. USE APPROPRIATE CONTAINMENT TO AVOID ENVIRONMENTAL CONTAMINATION. NOTE: THIS RESIN MAY BE HANDLED, SHIPPED AND STORED AT ELEVATED TEMPERATURE IN BULK.

SECTION VII	PHYSICAL DATA
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FORM: THIXOTROPIC GEL/PASTE
 FLASH POINT: GREATER THAN 93.33 °c (199.99°F) SETAFLASH CLOSED CUP ASTM D3828
 COLOR: BLACK
 RELATIVE DENSITY: 1.1
 VAPOR PRESSURE: LESS THAN 1.22 MBAR
 SOLUBILITY: SLIGHTLY
 VAPOR DENSITY: GREATER THAN 1

SECTION VIII	FIRE AND EXPLOSION HAZARDS
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FLAMMABILITY OF THE PRODUCT: IN A FIRE OR IF HEATED, A PRESSURE INCREASE WILL OCCUR AND THE CONTAINER MAY BURST.

EXTINGUISHING MEDIA

SUITABLE: USE DRY CHEMICAL, CO2, WATER SPRAY (FOG) OR FOAM.
 NOT SUITABLE: NONE KNOWN.

SPECIFIC EXPOSURE HAZARDS: PROMPTLY ISOLATE THE SCENE BY REMOVING ALL PERSONS FROM THE VICINITY OF THE INCIDENT IF THERE IS A FIRE. NO ACTION SHALL BE TAKEN INVOLVING ANY PERSONAL RISK OR WITHOUT SUITABLE TRAINING.

HAZARDOUS COMBUSTION PRODUCTS: NO SPECIFIC DATA

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS: FIRE-FIGHTERS SHOULD WEAR APPROPRIATE PROTECTIVE EQUIPMENT AND SELF-CONTAINED BREATHING APPARATUS (SCBA) WITH A FULL FACE-PIECE OPERATED IN POSITIVE PRESSURE MODE.

SECTION IX	REACTIVITY
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STABILITY: STABLE **HAZARDOUS POLYMERIZATION:** WILL NOT OCCUR

CONDITIONS AND MATERIALS TO AVOID:

AVOID ALL POSSIBLE SOURCES OF IGNITION (SPARK OR FLAME). EXTREMES OF TEMPERATURE AND DIRECT SUNLIGHT. SURFACES THAT ARE SUFFICIENTLY HOT MAY IGNITE EVEN LIQUID PRODUCT IN THE ABSENCE OF SPARKS OR FLAME..

MATERIALS TO AVOID:

REACTIVE OR INCOMPATIBLE WITH THE FOLLOWING MATERIALS: STRONG OXIDIZING AGENTS, STRONG ACIDS, ALIPHATIC AMINES.

OTHER HAZARDS

HEATING THIS SUBSTANCE ABOVE 300°F IN THE PRESENCE OF AIR MAY CAUSE SLOW OXIDATIVE DECOMPOSITION; ABOVE 500°F POLYMERIZATION MAY OCCUR. SOME COMBINATIONS OF REINS AND CURING AGENTS CAN PRODUCT EXOTHERMIC REACTIONS WHICH IN LARGEMASSES CAN CAUSE RUNAWAY POLYMERIZATION AND CHARRING OF THE REACTANTS.

HAZARDOUS DECOMPOSITION PRODUCTS

UNDER NORMAL CONDITIONS OF STORAGE AND USE, HAZARDOUS DECOMPOSITION PRODUCTS SHOULD NOT BE PRODUCED.

SECTION X**EMPLOYEE PROTECTION**

CONSULT LOCAL AUTHORITIES FOR ACCEPTABLE EXPOSURE LIMITS.

RECOMMENDED MONITORING PROCEDURES: IF THIS PRODUCT CONTAINS INGREDIENTS WITH EXPOSURE LIMITS, PERSONAL WORKPLACE ATMOSPHERE OR BIOLOGICAL MONITORING MAY BE REQUIRED TO DETERMINE THE EFFECTIVENESS OF THE VENTILATION OR OTHER CONTROL MEASURES AND/OR THE NECESSITY TO USE RESPIRATORY PROTECTIVE EQUIPMENT.

ENGINEERING MEASURES: USE ONLY WITH ADEQUATE VENTILATION. IF USER OPERATIONS GENERATE DUST, FUMES, GAS, VAPOR OR MIST, USE PROCESS ENCLOSURES, LOCAL EXHAUST VENTILATION OR OTHER ENGINEERING CONTROLS TO KEEP WORKER EXPOSURE TO AIRBORNE CONTAMINANTS BELOW ANY RECOMMENDED OR STATUTORY LIMITS.

HYGIENE MEASURES: WASH HANDS, FOREARMS AND FACE THOROUGHLY AFTER HANDLING CHEMICAL PRODUCTS, BEFORE EATING, SMOKING AND USING THE LAVATORY AND AT THE END OF THE WORKING PERIOD. APPROPRIATE TECHNIQUES SHOULD BE USED TO REMOVE POTENTIALLY CONTAMINATED CLOTHING. WASH CONTAMINATED CLOTHING BEFORE REUSING. ENSURE THAT EYEWASH STATIONS AND SAFETY SHOWERS ARE CLOSE TO THE WORKSTATION LOCATION.

RESPIRATORY PROTECTION: USE A PROPERLY FITTED, AIR-PURIFYING OR AIR-FED RESPIRATOR COMPLYING WITH AN APPROVED STANDARD IF A RISK ASSESSMENT INDICATES THIS IS NECESSARY. RESPIRATOR SELECTION MUST BE BASED ON KNOWN OR ANTICIPATED EXPOSURE LEVELS, THE HAZARDS OF THE PRODUCT AND THE SAFE WORKING LIMITS OF THE SELECTED RESPIRATOR.

EYES: SAFETY EYEWEAR COMPLYING WITH AN APPROVED STANDARD SHOULD BE USED WHEN A RISK ASSESSMENT INDICATES THIS IS NECESSARY TO AVOID EXPOSURE TO LIQUID SPLASHES, MISTS, GASES OR DUSTS.

SKIN: PERSONAL PROTECTIVE EQUIPMENT FOR THE BODY SHOULD BE SELECTED BASED ON THE TASK BEING PERFORMED AND THE RISKS INVOLVED AND SHOULD BE APPROVED BY A SPECIALIST BEFORE HANDLING THIS PRODUCT.

ENVIRONMENTAL EXPOSURE CONTROLS: EMISSIONS FROM VENTILATION OR WORK PROCESS EQUIPMENT SHOULD BE CHECKED TO ENSURE THEY COMPLY WITH THE REQUIREMENTS OF ENVIRONMENTAL PROTECTION LEGISLATION. IN SOME CASES, FUME SCRUBBERS, FILTERS, OR ENGINEERING MODIFICATIONS TO THE PROCESS EQUIPMENT WILL BE NECESSARY TO REDUCE EMISSIONS TO ACCEPTABLE LEVELS.

SECTION XI**ENVIRONMENTAL PROTECTION/ ACCIDENTAL RELEASE MEASURES**

PERSONAL PRECAUTIONS: NO ACTION SHALL BE TAKEN INVOLVING ANY PERSONAL RISK OR WITHOUT SUITABLE TRAINING. EVACUATE SURROUNDING AREAS. KEEP UNNECESSARY AND UNPROTECTED PERSONNEL FROM ENTERING. DO NOT TOUCH OR WALK THROUGH SPILLED MATERIAL. AVOID BREATHING VAPOR OR MIST. PROVIDE ADEQUATE VENTILATION. WEAR

APPROPRIATE RESPIRATOR WHEN VENTILATION IS INADEQUATE. PUT ON APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT.

ENVIRONMENTAL PRECAUTIONS: AVOID DISPERSAL OF SPILLED MATERIAL AND RUNOFF AND CONTACT WITH SOIL, WATERWAYS, DRAINS AND SEWERS. INFORM THE RELEVANT AUTHORITIES IF THE PRODUCT HAS CAUSED ENVIRONMENTAL POLLUTION (SEWERS, WATERWAYS, SOIL OR AIR).

LARGE SPILL: STOP LEAK IF WITHOUT RISK. MOVE CONTAINERS FROM SPILL AREA. APPROACH RELEASE FROM UPWIND. PREVENT ENTRY INTO SEWERS, WATER COURSES, BASEMENTS OR CONFINED AREAS. WASH SPILLAGES INTO AN EFFLUENT TREATMENT PLANT OR PROCEED AS FOLLOWS. CONTAIN AND COLLECT SPILLAGE WITH NON-COMBUSTIBLE, ABSORBENT MATERIAL E.G. SAND, EARTH, VERMICULITE OR DIATOMACEOUS EARTH AND PLACE IN CONTAINER FOR DISPOSAL ACCORDING TO LOCAL REGULATIONS. DISPOSE OF VIA A LICENSED WASTE DISPOSAL CONTRACTOR. CONTAMINATED ABSORBENT MATERIAL MAY POSE THE SAME HAZARD AS THE SPILLED PRODUCT.

SMALL SPILL: STOP LEAK IF WITHOUT RISK. MOVE CONTAINERS FROM SPILL AREA. DILUTE WITH WATER AND MOP UP IF WATER-SOLUBLE OR ABSORB WITH AN INERT DRY MATERIAL AND PLACE IN AN APPROPRIATE WASTE DISPOSAL CONTAINER. DISPOSE OF VIA A LICENSED WASTE DISPOSAL CONTRACTOR.

ECOLOGICAL INFORMATION:

NO KNOWN SIGNIFICANT EFFECTS OR CRITICAL HAZARDS.

OTHER ADVERSE EFFECTS: NO KNOWN SIGNIFICANT EFFECTS OR CRITICAL HAZARDS.

SECTION XII	SPECIAL PRECAUTIONS
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STORE IN A COOL, DRY PLACE WITH ADEQUATE VENTILATION. KEEP AWAY FROM OPEN FLAMES AND HIGH TEMPERATURES. HANDLE IN ACCORDANCE WITH THE POTENTIAL HAZARD OF THE CURING AGENT USED.

WARNING. POTENTIAL SENSITIZER. CONTAINERS, EVEN THOSE THAT HAVE BEEN EMPTIED, CAN CONTAIN HAZARDOUS PRODUCT RESIDUES. MINIMIZE ALL CONTACT WITH MATERIAL. WASH WITH SOAP AND WATER BEFORE EATING, DRINKING, SMOKING, APPLYING COSMETICS OR USING TOILET FACILITIES. LAUNDRY CONTAMINATED CLOTHING BEFORE REUSE. CONTAMINATED LEATHER ARTICLES, INCLUDING SHOES CANNOT BE DECONTAMINATED AND SHOULD BE DESTROYED TO PREVENT REUSE.

HEATING THIS RESIN ABOVE 300 DEG F IN THE PRESENCE OF AIR MAY CAUSE SLOW OXIDATIVE DECOMPOSITION ABOVE 500 DEG F, POLYMERIZATION MAY OCCUR. SOME CURING AGENTS, E.G., ALIPHATIC POLYAMINES CAN PRODUCE EXOTHERMIC REACTIONS WHICH IN LARGE MASSES CAN CAUSE RUNAWAY POLYMERIZATION AND CHARRING OF THE REACTANTS. FUMES AND VAPORS FROM THESE THERMAL AND CHEMICAL DECOMPOSITIONS VARY WIDELY IN COMPOSITION AND TOXICITY. DO NOT BREATHE FUMES.

USE A NIOSH-APPROVED RESPIRATOR AS REQUIRED TO PREVENT OVER EXPOSURE. IN ACCORD WITH 20 CFR 1910.134, USE EITHER AN ATMOSPHERE-SUPPLYING RESPIRATOR OR AN AIR-PURIFYING RESPIRATOR FOR ORGANIC VAPORS. IF THIS RESIN IS HANDLED, SHIPPED, OR STORED IN BULK, THE RECOMMENDED PUMPING TEMPERATURE IS 180 DEG F, MAX. TO PREVENT THERMAL BURNS. AVOID

SKIN AND EYE CONTACT WITH HOT LIQUID.

SECTION XIII TRANSPORTATION REQUIREMENTS

THE DATE PROVIDED IN THIS SECTION IS FOR INFORMATION ONLY AND MAY NOT BE SPECIFIC TO YOUR PACKAGE SIZE OR MODE OF TRANSPORT. YOU WILL NEED TO APPLY THE APPROPRIATE REGULATIONS TO PERPERLY CLASSIFY YOUR SHIPMENT FOR TRANSPORTATION.

**DEPARTMENT OF TRANSPORTATION CLASSIFICATION
NOT HAZARDOUS BY D.O.T. REGULATIONS**

**D.O.T PROPER SHIPPING NAME:
NOT REGULATED**

**OTHER REQUIREMENTS:
NONE**

SECTION XIV OTHER REGULATORY CONTROLS

US REGULATIONS:

HCS CLASSIFICATION: IRRITATING MATERIAL, SENSITIZING MATERIAL

SARA 311/312 CLASSIFICATION: IMMEDIATE (ACUTE) HEALTH HAZARD

SARA 313 SUPPLIER NOTIFICATIONS: NONE REQUIRED

SARA 302 EXTREMELY HAZARDOUS SUBSTANCES: NONE REQUIRED

IN ACCORDANCE WITH SARA TITLE III, SECTION 313, THE ENVIRONMENTAL DATA SHEET (EDS) SHOULD ALWAYS BE COPIED AND SENT WITH THE MSDS.

CANADA:

WHMIS (CANADA) CLASS D-2B: MATERIAL CAUSING OTHER TOXIC EFFECTS (TOXIC)

CANADIAN LISTS CANADIAN NPRI: NONE REQUIRED

INTERNATIONAL REGULATIONS:

CHEMICAL INVENTORIES

EUROPE INVENTORY – ALL COMPONENTS ARE LISTED OR EXEMPT

AUSTRALIA INVENTORY (AICS) – ALL COMPONENTS ARE LISTED OR EXEMPT

CHINA INVENTORY (IECSC) – ALL COMPONENTS ARE LISTED OR EXEMPT

KOREA INVENTORY (KECI) – ALL COMPONENTS ARE LISTED OR EXEMPT

PHILLIPINES INVENTORY (PICCS) – ALL COMPONENTS ARE LISTED OR EXEMPT

JAPAN INVENTORY (ENCS) – ALL COMPONENTS ARE LISTED OR EXEMPT

UNITED STATES INVENTORY (TSCA 8B) – ALL COMPONENTS ARE LISTED OR EXEMPT

CANADA INVENTORY – ALL COMPONENTS ARE LISTED OR EXEMPT

SECTION XV	STATE REGULATORY INFORMATION
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STATE REGULATIONS: **MASSACHUSETTS RTK SUBSTANCES – NONE REQUIRED**

NEW JERSEY RTK HAZARDOUS SUBSTANCES – NON REQUIRED

PENNSYLVANIA RTK HAZARDOUS SUBSTANCES – NON REQUIRED

CALIFORNIA PROP. 65: WARNING: THIS PRODUCT CONTAINS A CHEMICAL TO CAUSE CANCER AND BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM. OXIRANE, (PHENOXYMETHYL)—122-60-1, EPICHLOROHYDRIN – 106-89-8

THE FOLLOWING CHEMICALS ARE SPECIFICALLY LISTED BY INDIVIDUAL STATES: OTHER PRODUCT SPECIFIC HEALTH AND SAFETY DATA IN OTHER SECTIONS OF THE MSDS MAY ALSO BE APPLICABLE FOR STATE REQUIREMENTS. FOR DETAILS ON YOUR REGULATORY REQUIREMENTS YOU SHOULD CONTACT THE APPROPRIATE AGENCY IN YOUR STATE.

STATE LISTED COMPONENT	PERCENT	STATE CODE
EPICHLOROXYDRIN (CAS NO: 106-89-8)	2 PPM	MA, CA65C

CA = CALIFORNIA HAZ. SUBS. LIST: CA65C, CA65R, CA65C/R = CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT OF 1986 OR PROPOSITION 65 LIST; CT = CONNECTICUT TOXIC SUBST. LIST; FL = FLORIDA SUBST. LIST; IL = ILLINOIS TOX. SUBST. LIST; LA = LOUISIANA HAZ. SUBST. LIST; MA = MASSACHUSETTS SUBST. LIST; ME = MAINE HAZ. SUBST. LIST; MN = MINNESOTA HAZ. SUBST. LIST; NJ = NEW JERSEY HAZ. SUBST. LIST; PA = PENNSYLVANIA HAZ. SUBST. LIST; RI = RHODE ISLAND HAZ. SUBST. LIST.

CALIFORNIA PROPOSITION 65 FOOTNOTE: CA65C = THE CHEMICAL IDENTIFIED WITH THIS CODE IS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER. CA65R = THE CHEMICAL IDENTIFIED WITH THIS CODE IS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM. CA65C/R = THE CHEMICAL IDENTIFIED WITH THIS CODE IS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE BOTH CANCER AND BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.

SECTION XVI	SPECIAL NOTES
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HAZARDOUS MATERIAL INFORMATION SYSTEM III U.S.A.	HEALTH: 2 FLAMMABILITY: 2 PHYSICAL HAZARDS: 0 CHRONIC:
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THE INFORMATION CONTAINED HEREIN IS BASED ON THE DATA AVAILABLE TO US AND IS BELIEVED TO BE CORRECT. HOWEVER, B D CLASSIC MAKES NO WARRANTY, EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THESE DATA OR THE RESULTS TO BE OBTAINED FROM THE USE THEREOF. B D CLASSIC ASSUMES NO RESPONSIBILITY FOR INJURY FROM THE USE OF THE PRODUCT DESCRIBED HEREIN.

BE SAFE
READ OUR PRODUCT SAFETY INFORMATION...AND PASS IT ON
(PRODUCT LIABILITY REQUIRES IT)

MATERIAL SAFETY DATA SHEET

Date of Preparation: 02/22/12

SECTION 1 - MATERIAL IDENTIFICATION

PRODUCT NAME 7200G CRACK PATCH GEL PART B
HARDENER/CURING AGENT

PRODUCT CODE BDC7200G

B.D. CLASSIC ENTERPRISES, INC.
12903 SUNSHINE AVE.
SANTA FE SPRINGS, CA 90670
TELEPHONE # 562-944-6177
EMERGENCY INFORMATION
CHEM TREC #800-424-9300

EMERGENCY OVERVIEW

HMIS HEALTH RATING 3 **FLAMMABILITY** 1 **REACTIVITY** 0
PHYSICAL FORM THIXOTROPIC GEL/PASTE
COLOR WHITE
ODOR AMINE
HAZARDS HARMFUL IF IN CONTACT WITH SKIN. CORROSIVE TO EYES.
CORROSIVE TO SKIN. SEVERE EYE IRRITANT. SEVERE SKIN
IRRITANT. MAY CAUSE SKIN SENSITIZATION.
EXTINGUISHING MEDIA Ignition will give rise to a Class B fire. In case of large fire use:
Alcohol Foam, Water Spray. In case of small fire use: Carbon
Dioxide (CO2), Dry Chemical, Dry sand or limestone.

C.A.S. CHEMICAL NAME Mixture
SYNONYMS None
CHEMICAL FAMILY Aliphatic Amine
EMPIRICAL FORMULA Mixture
INTENDED USE Curing Agent, Epoxy

SECTION 2 - INGREDIENTS

#	WT %	CAS Number and Chemical Name
1.	< 45	25154-52-3 NONYLPHENOL
2.	< 10	1761-71-3 methylenebiscyclohexanamine,4,4'-
3.	< 6	13463-67-7 Titanium Dioxide
4.	< 15	7631-86-9 FUMED SILICA

The remaining components are trade secret.

OSHA (ACGIH) Exposure Limits

	TWA		STEL		CEILING		
	ppm	mg/m3	ppm	mg/m3	ppm	mg/m3	
1. OSHA	N/E	N/E	N/E	N/E	N/E	N/E	N/E
ACGIH	N/E	N/E	N/E	N/E	N/E	N/E	N/E
2. OSHA	N/E	N/E	N/E	N/E	N/E	N/E	N/E
ACGIH	N/E	N/E	N/E	N/E	N/E	N/E	N/E

N/E = Not Established.

SECTION 3 - HEALTH HAZARDS

ROUTES OF EXPOSURE

- Eye Contact
- Skin Contact
- Ingestion
- Skin Absorption

EXPOSURE STANDARDS

No standards established for the product. Maintain air contaminant concentrations in the workplace at the lowest feasible levels.

HEALTH HAZARDS

- Harmful if in contact with skin.
- Corrosive to eyes.
- Corrosive to skin.
- Severe eye irritant.
- Severe skin irritant.
- May cause skin sensitization.

TARGET ORGANS

- Eye
- Skin

SIGNS AND SYMPTOMS OF EXPOSURE (Acute effects)

Product vapor in low concentrations can cause lacrimation, conjunctivitis and corneal edema when absorbed into the tissue of the eye from the atmosphere. Corneal edema may give rise to a perception of 'blue haze' or 'fog' around lights. The effect is transient and has no known residual effect. Burns of the eye may cause blindness. Contact of undiluted product with the eyes or skin quickly causes severe irritation and pain and may cause burns, necrosis and permanent injury. Inhalation of aerosols and mists may severely damage contacted tissue and produce scarring. Risk of exposure to hazardous concentrations of vapor under normal working conditions in a well ventilated space is minimal. However, conditions such as spraying, or sudden release of hot liquid, which generate an aerosol, mists or fog should be avoided. Ingestion may cause death unless treated promptly. Product is readily absorbed through the skin and may cause malaise, discomfort, injury, and death unless treated promptly.

SIGNS AND SYMPTOMS OF EXPOSURE (Possible Longer Term Effects)

Repeated and/or prolonged exposure may cause allergic reaction/sensitization. Repeated and/or

prolonged exposures may result in: adverse eye effects (such as conjunctivitis or corneal damage), adverse skin effects (such as rash, irritation or corrosion).

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE

Eye disease
Skin disorders and Allergies

CARCINOGENS UNDER OSHA, ACGIH, NTP, IARC, OTHER

This product contains no carcinogens in concentrations of 0.1 percent or greater.

SECTION 4 - FIRST AID

EYE CONTACT

Hold eyelids apart and immediately flush eyes with plenty of water for at least 15 minutes. Seek medical advice.

SKIN CONTACT

Remove product and immediately flush affected area with water for at least 15 minutes. Remove contaminated clothing and shoes. Destroy contaminated leather apparel. Cover the affected are with a sterile dressing or clean sheeting and transport for medical care. DO NOT APPLY GREASES OR OINTMENTS. Control shock, if present. Launder contaminated clothing prior to reuse.

INHALATION

Move patient to fresh air. If breathing has stopped or is labored give assisted respiration (e.g. mouth-to-mouth). Prevent aspiration of vomit. Turn victim's head to the side. Seek medical advice.

INGESTION

In the event of ingestion, administer 3-4 glasses of milk or water. DO NOT INDUCE VOMITING. Seek medical advice.

SECTION 5 - FIRE AND EXPLOSION DATA

FLASH POINT (closed cup) 150.56 C (303.01 F)

UPPER EXPLOSION LIMIT (UEL) No Data

LOWER EXPLOSION LIMIT (LEL) No Data

AUTOIGNITION TEMPERATURE No Data

FIRE HAZARD CLASSIFICATION (OSHA/NFPA)

Class IIIB

EXTINGUISHING MEDIA

Ignition will give rise to a Class B fire. In case of large fire use: Water Spray, Alcohol Foam. In case of small fire use: Carbon Dioxide (CO2), Dry Chemical, Dry sand or limestone.

SPECIAL FIRE FIGHTING PROCEDURES

A face shield should be worn. Firefighters should wear butyl rubber boots, gloves, and body suit and a self-contained breathing apparatus. Retain expended liquids from fire fighting for later disposal.

UNUSUAL FIRE AND EXPLOSION HAZARDS

May generate toxic or irritating combustion products. May generate carbon monoxide gas. May generate toxic nitrogen oxide gases. May generate ammonia gas. Personnel in vicinity and downwind should be evacuated.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

CONTAINMENT TECHNIQUES (Removal of ignition sources, diking etc)

Stop the leak, if possible. Reduce vapor spreading with a water spray. Shut off or remove all ignition sources. Construct a dike to prevent spreading.

CLEAN-UP PROCEDURES

If recovery is not feasible, admix with dry soil, sand or non-reactive absorbent (sodium bisulfate) and place in a container or dumpster pending disposal. Transfer to containers by suction, preparatory for later disposal. Flush area with water spray. Clean-up personnel must be equipped with self contained breathing apparatus and butyl rubber protective clothing. For large spills, recover spilled material with a vacuum truck.

OTHER EMERGENCY ADVICE

Wear protective clothing, boots, gloves, and eye protection.

SECTION 7 - HANDLING AND STORAGE

STORAGE

Keep away from acids and oxidizers. Keep in cool, dry, ventilated storage and in closed containers. Do not store in iron or other reactive metal containers.

HANDLING

Avoid contact with skin or eyes. When handling, do not eat, drink, or smoke.

OTHER PRECAUTIONS

Emergency showers and eye wash stations should be readily accessible. Adhere to work practice rules established by government regulations (e.g. OSHA).

SECTION 8 - PERSONAL PROTECTION/EXPOSURE CONTROLS

EYE PROTECTION

Full face shield with goggles underneath.

HAND PROTECTION

Neoprene rubber gloves. Impermeable gloves. Cuffed butyl rubber gloves. Nitrile rubber gloves.

RESPIRATORY PROTECTION

Not required under normal conditions in a well-ventilated workplace. At elevated temperatures a cartridge mask National Institute for Occupational Safety and Health (NIOSH) approved for ammonia may

be appropriate.

PROTECTIVE CLOTHING

Impervious clothing. Slicker suit. Rubber boots. Full rubber suit (rain gear). Butyl or latex protective clothing.

ENGINEERING CONTROLS

No specific controls needed.

WORK AND HYGIENIC PRACTICES

Provide readily accessible eye wash stations and safety showers. Was at the end of each workshift and before eating, smoking or using the toilet. Promptly remove clothing that becomes contaminated. Discard contaminated leather articles. Launder or discard contaminated clothing.

SECTION 9 - TYPICAL PHYSICAL AND CHEMICAL PROPERTIES

Physical Form	Thixotropic Gel/Paste
Color	White
Odor	Amine
pH	Alkaline
Vapor Pressure (mm. Hg. at 21C (70C))	<2.00
Vapor Density (Air = 1)	No Data
Boiling Point	> 222.00 C (>431.60 F)
Solubility in Water	Slight (0.1 - 1%)
Specific Gravity (Water=1)	0.98
Molecular Weight	Mixture

SECTION 10 - STABILITY AND REACTIVITY

CHEMICAL STABILITY

Stable.

CONDITIONS TO AVOID (if unstable)

Not applicable.

INCOMPATIBILITY (Materials to Avoid)

Mineral acids (i.e. sulfuric, phosphoric, etc.). Organic acids (i.e. acetic acid, citric acid, etc.). Oxidizing Agents (i.e. perchlorates, nitrates etc.). Reactive metals (i.e. sodium, calcium, zinc etc.). Sodium or Calcium Hypochlorite. Product slowly corrodes copper, aluminum, zinc and galvanized surfaces. Reaction with peroxides may result in violent decomposition of peroxide possibly creating an explosion. Materials reactive with hydroxyl compounds. A reaction accompanied by large heat release occurs when the product is mixed with acids. Heat generated may be sufficient to cause vigorous boiling creating a hazard due to splashing or splattering of hot material.

HAZARDOUS DECOMPOSITION PRODUCTS (from burning, heating, or reaction with other materials).

Carbon Monoxide in a fire. Carbon Dioxide in a fire. Ammonia when heated. Nitrogen Oxides in a fire. Irritating and toxic fumes at elevated temperatures. Nitric acid in a fire. Aldehydes. Nitrogen oxide can react with water vapors to form corrosive nitric acid (TLV=2 ppm).

HAZARDOUS POLYMERIZATION

Will not occur

CONDITIONS TO AVOID (if polymerization may occur)

Not applicable

SECTION 11 - TOXICOLOGICAL PROPERTIES

ACUTE ORAL TOXICITY (LD50, RAT)

>1620.00 mg/kg (Estimate)

ACUTE DERMAL TOXICITY (LD50, RABBIT)

>1000.00 mg/kg (Estimate)

ACUTE INHALATION TOXICITY (LC50, RAT)

> 10.00 mg/L / 1 hr (No deaths) (Estimate)

MISCELLANEOUS TOXICITY DATA

Data available on components only.

OTHER ACUTE EFFECTS

No Data

IRRITATION EFFECTS DATA

Irritation data based on estimates.

CHRONIC/SUBCHRONIC DATA

No delayed, subchronic or chronic test data are known.

SECTION 12 - ECOLOGICAL INFORMATION

No Data

SECTION 13 - DISPOSAL CONSIDERATIONS

WASTE DISPOSAL

Comply with all Federal, State and Local Regulations.

SECTION 14- TRANSPORT INFORMATION

DOT NON-BULK SHIPPING NAME Amines, liquid, corrosive, n.o.s.

(METHYLENEBISCYCLOHEXANAMINE, 4,4'-)

// 8 // UN2735 // PG II

IMO SHIPPING DATA

Amines, liquid, corrosive, n.o.s.

(METHYLENEBISCYCLOHEXANAMINE, 4,4'-)

// 8 // UN 2735 // II // Marine Pollutant

(NONYLPHENOL) // IMDG Page 8109-2 // F.P.

150.6 C // Placarded Corrosive // HazMat

STCC=4935601 // EmS No: 8-05 // MFAG No: 320

7200G CRACK PATCH GEL CURING AGENT
MATERIAL SAFETY DATA SHEET

02/22/12

ICAO/IATA SHIPPING DATA

Amines, liquid, corrosive, n.o.s.

(METHYLENEBISCYCLOHEXANAMINE, 4,4'-)

// 8 // UN 2735 // II // F.P. 150.6 C // Shipment per

49 CFR 171.11

SECTION 15 - REGULATORY INFORMATION

US FEDERAL REGULATIONS

TOXIC SUBSTANCES CONTROL ACT (TSCA)-

All components are included in the EPA Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

OSHA Hazard Communication Standard (29CFR1910.1200) hazard class(es)

Corrosive. Sensitizer

EPA SARA Title III Section 312 (40CFR370) hazard class

Immediate Health Hazard. Delayed Health Hazard.

EPA SARA Title III Section 313 (40CFR372) toxic chemical above "de minimis" level are

None

STATE REGULATIONS

PROPOSITION 65 SUBSTANCES (component(s) known to the State of California to cause cancer and/or reproductive toxicity and subject to warning and discharge requirements under the "Safe Drinking Water and Toxic Enforcement Act of 1986")

None

NEW JERSEY TRADE SECRET REGISTRY NUMBER(S)

05995500-(H239OU)

SECTION 16 - INTERNATIONAL REGULATIONS

CANADA

DSL

Not on Inventory.

WHMIS HAZARD CLASSIFICATION

Class D Division 2B, Class E Corrosive,

WHMIS TRADE SECRET REGISTRY NUMBER(S)

Not applicable

WHMIS SYMBOLS

Test tube/hand, Stylized T,

EUROPEAN ECONOMIC COMMUNITY (EEC)

EINECS MASTER INVENTORY

Not on Inventory

7200G CRACK PATCH GEL CURING AGENT
MATERIAL SAFETY DATA SHEET

02/22/12

EEC SYMBOL

CORROSIVE (C)

EEC RISK (R) PHRASES

Harmful if swallowed (R22). Causes burns (R34). May cause sensitization by skin contact (R43).

EEC SAFETY PHRASES

Do not breathe fumes (S23). In case of contact with eyes, rinse immediately with plenty of water and seek medical advice (S26). Wear suitable protective clothing, gloves and eye/face protection (S36/37/39). In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible) (S45).