

MATERIAL SAFETY DATA SHEET

C.D. PRODUCTS, INC. emergency telephone #
918 N. Union St.. (920)-739-8685
Appleton, WI 54911 ISSUE DATE- 8/05/04
www.concretedefense.com

SECTION I: PRODUCT IDENTIFICATION

PRODUCT NAME- EPOXY RESIN

PRODUCT #- 4100A

PRODUCT CLASS- EPOXY RESIN

HMIS CODE HEALTH-1 , FIRE-1, REACTIVITY-0

HAZARD RATING: 0=LEAST, 1=SLIGHT, 2=MODERATE, 3=HIGH, 4=EXTREME

SECTION II: HAZARDOUS INGREDIENTS

	CAS	%	PEL	TLV
EPOXY RESIN	25068-38-6	<75	limits have not been established	
NOVOLAC EPOXY RESIN	28064-14-4	<20	limits have not been established	
ALKYL GLYCIDYL ETHER	120547-52-6	<10	limits have not been established	

Skin absorption may potentially contribute to the overall exposure to this material. Appropriate measures should be taken to prevent absorption.

SECTION III: PHYSICAL DATA

BOILING RANGE: > 300F

EVAPORATION RATE VS BUTYL ACETATE - slower

VAPOR DENSITY VS AIR: na

SOLUBILITY IN WATER: not soluble

APPEARANCE AND ODOR: clear viscous

PERCENT VOLATILE BY VOLUME: 0

WEIGHT PER GALLON: 9.7b/gal

SECTION IV: FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (F): +400F

LEL: na

UEL: na

EXTINGUISHING MEDIA: water spray, dry chemical, foam or carbon dioxide

HAZARDOUS DECOMPOSITION PRODUCTS: carbon dioxide, carbon monoxide, aldehydes.

SPECIAL FIRE FIGHTING PROCEDURES: water spray to keep containers cool, and to protect persons attempting to stop leaks. Wear goggles and full protective clothing. Water or foam may cause frothing which can be violent and possibly endanger the life of the firefighter, especially if sprayed into containers of hot material.

SECTION V: HEALTH HAZARD DATA - EFFECTS OF OVER EXPOSURE

INGESTION: practically non toxic

INHALATION: excessive inhalation of vapors can cause nasal and respiratory irritation

SKIN ABSORPTION: prolonged or repeated contact can cause moderate irritation, defatting, dermatitis. May cause skin sensitization.

SKIN CONTACT: above

EYE CONTACT: can cause irritation, redness, tearing, blurred vision.

EFFECTS OF CHRONIC OVER EXPOSURE: May cause skin sensitization.

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EMERGENCY FIRST AID PROCEDURES

EYE CONTACT: flush with water for 15 minutes and seek medical attention

SKIN CONTACT: wash immediately with soap and water, remove contaminated clothing and launder before reuse.

INGESTION: do not induce vomiting, keep person warm and quiet and seek medical attention

INHALATION: remove to fresh air. If breathing is difficult administer oxygen. If breathing has stopped administer artificial respiration. Keep person warm and quiet and seek medical attention.

SECTION VI: REACTIVITY DATA

STABILITY: stable

HAZARDOUS POLYMERIZATION: will not occur

CONDITIONS TO AVOIDS excessive heat, contact with strong bases

SECTION VII: SPILL OR LEAK PROCEDURE

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: eliminate ignition sources, absorb with inert material, eg- sand, scoop up and put into disposal container. flush area with water, prevent washdowns from entering the sewers and water ways. Uncontrolled spills which exceed one gallon may be reportable to the National Response Center. For small spills the resin may be scooped up and then disposed of.

WASTE DISPOSAL METHOD: Incinerate in furnace or dispose of in accordance with applicable local, state, and federal regulations.

SECTION VIII: SPECIAL PROTECTION INFORMATION

RESPIRATORY: use with adequate ventilation. NIOSH/MSA approved respirators

should be used where ventilation is not adequate. Niosh approved air-line respirators with auxiliary escape air tanks or self contained breathing apparatus should be used in confined spaces.

VENTILATION: local exhaust recommended when appropriate to control employee exposure.

PROTECTIVE GLOVES: Neoprene, nitrile rubber -should be worn

EYE PROTECTION: chemical splash goggles

OTHER PROTECTIVE EQUIPMENT: normal work clothing covering arms and legs

SECTION IX: SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: avoid skin contact, remove and launder contaminated clothing. Empty containers may contain residual flammable vapors so all hazard precautions should be observed.

SECTION IX: SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: NA

OTHER PRECAUTIONS: keep away from heat or open flames

SECTION XI: SARA TITLE III INFORMATION

Supplier is notified under SARA TITLE III SECTION 313 not required for this product. SARA SECTION 311 and 312 hazard classification for this product is listed below

Immediate (acute) health hazard

SECTION XII: RCRA INFORMATION

Since this product is not sold as a waste, we have not listed it as a waste. Based on our knowledge of this product, its raw materials and processes employed during its manufacture, we believe it is unlikely that this product is a hazardous waste for federal RCRA purposes. We recommend that you carry out your own tests and evaluations prior to discarding any materials.

SECTION XIII: CERCLA INFORMATION

Under EPA-CERCLA releases to air, land or water which exceed the reportable quantity must be reported to the national response center (800-424-8802). This product contains no materials with reportable quantities.

SECTION XIV: CALIFORNIA PROPOSITION 65 INFORMATION

This product is not subject to California Proposition 65 notification.

SECTION XV: TRANSPORTATION INFORMATION

Dot shipping name: not applicable

Dot hazard class: not required

Dot label(s): none

Dot UN/NA number: not applicable

SECTION XVI: OTHER INFORMATION

This product complies with all TSCA inventory requirements.

NOTE: To the best of our knowledge, the information contained herein is accurate. However C.D. Products. Inc assumes no liability whatsoever for the accuracy or completeness of the information contained herein. The final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist.

MATERIAL SAFETY DATA SHEET

C.D. PRODUCTS, INC. EMERGENCY TELEPHONE #
918 N. Union St.. (920)739-8685
Appleton, WI 54911 ISSUE DATE- 8/5/04
www.concretedefense.com

SECTION I: PRODUCT IDENTIFICATION

PRODUCT NAME- PART B HARDENER

PRODUCT #- 5100B

PRODUCT CLASS- CYCLOALIPHATIC AMINE

HMIS CODE HEALTH-3 , FIRE-1, REACTIVITY-0

HAZARD RATING: 0=LEAST, 1=SLIGHT, 2= MODERATE, 3=HIGH, 4= EXTREME

SECTION II: HAZARDOUS INGREDIENTS	CAS	%	PEL	TLV
benzine-1, 3dimethanmine	1477-55-0	<30	na	na(1)
isophrone diamine	2855-13-21	<30	na	na
benzyl alcohol	100-51-6	<50	na	na
ETHELENE GLYCHOL MONOPROPYL ETHER	002807-30-9	<10	na	(1)Skin

(1)Skin absorption may potentially contribute to the overall exposure to this material. Appropriate measures should be taken to prevent absorbtion.

SECTION III: PHYSICAL DATA

BOILING RANGE: > 200 C (>392 F)

VAPOR PRESSURE (mm Hg @ 70F): 1.80

VAPOR DENSITY VS AIR: no data

SOLUBILITY IN WATER: slight

APPEARANCE AND ODOR: clear mobileliquid, slight odor

PERCENT VOLATILE BY VOLUME: 0

WEIGHT PER GALLON: 8.3b/gal

SECTION IV: FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (F): >200F

LEL: No data

UEL: No data

EXTINGUISHING MEDIA: water spray, dry chemical, foam or carbon dioxide

HAZARDOUS DECOMPOSITION PRODUCTS: carbon dioxide, carbon monoxide, oxides of nitrogen

SPECIAL FIRE FIGHTING PROCEDURES: Wear face shield and full protective clothing including butyl rubber boots, gloves and SCBA. Water or foam may cause frothing which can be violent and possibly endanger the life of the firefighter, especially if sprayed into containers of hot material. Personnel downwind should be evacuated. Retain expended liquids for later disposal.

SECTION V: HEALTH HAZARD DATA - EFFECTS OF OVER EXPOSURE

INGESTION: can cause nausea, vomiting, headache

INHALATION: excessive inhalation of vapors can cause nasal and respiratory irritation

SKIN ABSORPTION: product may be absorbed through the skin causing nausea, headache, and general discomfort.

SKIN CONTACT: may cause burns and/or sensitization

EYE CONTACT: causes chemical burns and may cause irreversable injury

EFFECTS OF CHRONIC OVEREXPOSURE: Repeated or prolonged contact may cause skin sensitization. Repeated exposures may cause adverse skin and eye effects. Dryness of nasal passages may result from prolonged inhalation of vapors.

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EMERGENCY FIRST AID PROCEDURES

EYE CONTACT: flush with water for 15 minutes, lifting upper and lower lids, and seek medical attention

SKIN CONTACT: wash immediately with soap and water, remove contaminated clothing and launder before reuse.

INGESTION: do not induce vomiting, keep person warm and quiet and seek medical attention. Aspiration of ingested material into the lungs can cause chemical pneumonia which can be fatal.

INHALATION: remove to fresh air. If breathing is difficult administer oxygen. If breathing has stopped administer artificial respiration. Keep person warm and quiet and seek medical attention.

SECTION VI: REACTIVITY DATA

STABILITY: stable

HAZARDOUS POLYMERIZATION: will not occur

CONDITIONS TO AVOIDS excessive heat, contact with acids, oxidizers, or reactive metals.

SECTION VII: SPILL OR LEAK PROCEDURE

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: eliminate ignition sources, absorb with inert material, eg- sand, scoop up and put into disposal container. flush area with water, prevent washdowns from entering the sewers and water ways. Uncontrolled spills which exceed one gallon may be reportable to the National Response Center. For small spills the resin may be scooped up and then disposed of. Clean up personnel must be equipped with butyl rubber protective clothing and SCBA.

WASTE DISPOSAL METHOD: Comply with applicable local, state, and federal regulations.

SECTION VIII: SPECIAL PROTECTION INFORMATION

RESPIRATORY: use with adequate ventilation. NIOSH/MSA approved respirators

should be used where ventilation is not adequate. Niosh approved air-line respirators with auxiliary escape air tanks or self contained breathing apparatus should be used in confined spaces.

VENTILATION: local exhaust recommended when appropriate to control employee exposure below TLV limits

PROTECTIVE GLOVES: Neoprene, nitrile rubber -should be worn

EYE PROTECTION: chemical splash goggles and face shield

OTHER PROTECTIVE EQUIPMENT: normal work clothing covering arms and legs to prevent skin contact.

SECTION IX: SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Keep away from oxidizers and acids.

OTHER PRECAUTIONS: keep away from heat or open flames. Store in a cool, dry, ventilated area.

SECTION X: ADDITIONAL R-T-K COMPOSITION INFORMATION

no additional information is applicable

SECTION XI: SARA TITLE III INFORMATION

Supplier is notified under SARA TITLE III SECTION 313 not required for this product. SARA SECTION 311 and 312 hazard classification for this product is listed below

Immediate (acute) health hazard

Delayed (chronic) health hazard

SECTION XII: RCRA INFORMATION

Since this product is not sold as a waste, we have not listed it as a waste. Based on our knowledge of this product, its raw materials, and processes employed during its manufacture, we believe it is unlikely that the end-product of this coating system is a hazardous waste for federal RCRA purposes. We recommend that you carry out your own tests and evaluations prior to discarding any materials.

SECTION XIII: CERCLA INFORMATION

Under EPA-CERCLA releases to air, land or water which exceed the reportable quantity must be reported to the national response center (800-424-8802). This product contains less than 10% Xylene (mixed isomers) which has a reportable quantity of 100 lbs.

SECTION XIV: CALIFORNIA PROPOSITION 65 INFORMATION

This product is not subject to California Proposition 65 notification.

SECTION XV: TRANSPORTATION INFORMATION

Dot shipping name: alkylamines n.o.s

Dot hazard class: corrosive

Dot label(s): corrosive

Dot UN/NA number: UN 2735

SECTION XVI: OTHER INFORMATION

This product complies with all TSCA inventory requirements.

DOT Non-Bulk Shipping Name: Amines, liquid, corrosive, n.o.s. (Benzene-1,3-Dimethanamine (MXDA))// UN2735 // 8 // PG II

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