

## MATERIAL SAFETY DATA SHEET

C.D. PRODUCTS, INC.                      emergency telephone #  
918 N. Union St.                      (920)-739-8685  
Appleton, WI 54911                      ISSUE DATE- 7/20/90

### 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
ETHELENE GLYCHOL	002807-30-9	<55	NA	NA SKIN (1)
MONOPROPYL ETHER				

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: > 280F

EVAPORATION RATE VS BUTYL ACETATE - slower

VAPOR DENSITY VS AIR: heavier

SOLUBILITY IN WATER: slightly soluble

APPEARANCE AND ODOR: clear thin liquid, strong solvent odor

PERCENT VOLATILE BY VOLUME: 50

WEIGHT PER GALLON: 8.2b/gal

### SECTION IV: FIRE AND EXPLOSION HAZARD DATA

FLASH POINT ( F ): +120F

LEL: <1.1%

UEL: na

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

HAZARDOUS DECOMPOSITION PRODUCTS: carbon dioxide, carbon monoxide,

SPECIAL FIRE FIGHTING PROCEDURES: water spray to keep containers cool, and to protect persons attempting to stop leaks. Wear self contained breathing apparatus with a full face piece operated in the positive pressure demand mode, goggles and full protective clothing. Water or foam may cause frothing which can be violent and possibly endanger the life of the firefighter, especially is sprayed into containers of hot, burning liquid.

UNUSUAL FIRE ANDEXPLOSION HAZARDS: closed containers may explode due to build up of pressure from excessive heat. vapors are heavier than air and may travel along the ground or may be moved by ventilation and ignited by pilot lights or other ignition sources at locations distant from the material handling point. Never weld on or near drum. Liquids or residues may ignite explosively.

### SECTION V: HEALTH HAZARD DATA - EFFECTS OF OVER EXPOSURE

INGESTION: can cause gastrointestinal irritation, nausea, vomiting and diarrhea. Aspiration of material into the lungs can cause chemical pneumonitits which can be fatal.

**INHALATION:** excessive inhalation of vapors can cause nasal and respiratory irritation, central nervous system effects including dizziness, weakness, fatigue, nausea, headache and possible unconsciousness, and even death.

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**SKIN ABSORPTION:** prolonged or repeated contact can cause moderate irritation, defatting, dermatitis.

**SKIN CONTACT:** above

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

**EFFECTS OF CHRONIC OVER EXPOSURE:** NA

#### 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:** may occur-if in contact with amines or strong oxidizing agents.

**CONDITIONS TO AVOIDS** excessive heat, 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 styrene may be allowed to evaporate and the dry resin 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.

**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..                      (414)-739-8685  
Appleton, WI 54911                      ISSUE DATE- 8/7/00

### SECTION I: PRODUCT IDENTIFICATION

PRODUCT NAME- PART B HARDENER

PRODUCT #- 4100B

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
Xylene	1330-20-7	<10	100ppm	100ppm

(1)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: > 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 mobile liquid, 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

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CHRONIC EFFECTS OF OVER EXPOSURE: 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.

## 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

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## 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-Dimethaneamine (MXDA), Xylene)// UN2735 // 8 // PG II

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