

DISTRIBUTOR PROGRAMS  
THE DEXTER CORPORATION  
ON DEXTER DRIVE  
SE BROOK, NH 03874

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PRODUCT CODE: ABO001- HMIS 211 REVISION  
DESCRIPTION: EPK 1C PART B NBR: 08 04/13/94

\* N.A. = NOT APPLICABLE N.E. = NOT ESTABLISHED

SECTION I - NOMENCLATURE

CHEMICAL NAME AND SYNONYMS  
EPOXY PATCH KIT HARDENER

TRADE NAME AND SYNONYMS  
EPK 1C Hardener

CHEMICAL FAMILY  
AMINE

FORMULA  
NOT APPLICABLE TO MIXTURES

SECTION II - HAZARDOUS INGREDIENTS & SECTION 313 SUPPLIER NOTIFICATION

If a hazardous ingredient is identified as being a toxic chemical via hazard code "A", that chemical is subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40CFR372.

HAZARD CODES (HAZD):  
C=Carcinogen (OSHA, NTP, IARC)  
H=Hazardous (OSHA)  
P=California Prop 65 (carcinogen)  
A=Superfund amendments and reauthorization act (SARA)

HAZARDOUS MATERIAL	% by Wt.	TLV MEAS.	PEL MEAS.	CAS NBR	HAZI
01-Crystalline Silica	15.602	0.2 mg/m3	10mg/m3 % SiO2+2	14808-60-7	H, C, P
02-Diethylenetriamine	10-30	1 ppm		111-40-0	H
03-Epoxy Resin	10-30	N.E.	N.E.	25068-38-6	H

SECTION III - PHYSICAL DATA

BOILING PT (DEG. F)	404	SPECIFIC GRAVITY	1.65
VAPOR PRESSURE (MM. HG)	<1	PCT VOLATILE BY VOL	Nil
PCT VOLATILE BY WEIGHT	<10 gm/l	EVAPORATION RATE	N.A.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (SPECIFY TYPE)-  
Where comparatively small amounts are being used, ventilation should move air over the work and away from the worker. Do not recirculate unless scrubbed with acid.

VENTILATION-  
Ventilation should move air over the work and away from the worker.

PROTECTIVE GLOVES-  
Rubber or Plastic

*More work*

EYE PROTECTION-  
Goggles where there is danger of splash.

OTHER PROTECTIVE EQUIPMENT-  
Use of protective skin cream is recommended.

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN STORAGE AND HANDLING-  
Protect from physical damage. Store in a cool, dry area, well ventilated away from any area where fire hazard may be acute.

OTHER PRECAUTIONS-  
is a strong skin sensitizer. Avoid skin contact.

\*\*\*\*\*  
\*TSCA: All the components contained in this product comply with \*  
\* applicable requirements pertaining to the US EPA TSCA inventory \*  
\* under 40CFR Part 710 and 720. \*  
\*\*\*\*\*  
\*The information and recommendations contained herein are based upon data \*  
\* believed to be correct. However, since much of the information has been \*  
\* received from sources outside our company, we cannot guarantee its \*  
\* accuracy or completeness. Health and safety precautions contained \*  
\* within this data sheet may not be adequate for all individuals and/or \*  
\* situations. It is the user's obligation to evaluate and use this data \*  
\* in order to comply with all applicable laws and regulations. \*  
\* Additionally, no guarantee or warranty of any kind, expressed or implied \*  
\* is made with respect to the information contained herein. \*  
\*\*\*\*\*

NAME: Ken DeCosta MSDS DATE 2/09/98 PAGE 4 OF 4

SECTION X - TRANSPORTATION INFORMATION

U.S. DOT SHIPPING INFORMATION:  
PROPER SHIPPING NAME:

AMINES, SOLIDS, CORROSIVE, N.O.S.  
(DIETHYLENETRIAMINE)  
UN 3259 HAZARD CLASS: 8 PG: 1

REPORTALBE QUANTITY:  
NOT APPLICABLE

POSTAL SERVICE:  
U.S. POSTAL REGULATIONS PROHIBIT THE SHIPMENT OF THIS MATERIAL THROUGH THE MAIL.

IATA SHIPPING INFORMATION:  
PROPER SHIPPING NAME:

AMINES, SOLIDS, CORROSIVE, N.O.S.  
(DIETHYLENETRIAMINE)  
UN 3259 HAZARD CLASS: 8 PG II

SECTION III - PHYSICAL DATA

SOLUBILITY IN WATER Partial VAPOR DENSITY (AIR=1) 3.5

## APPEARANCE AND ODOR-

Tan, high viscosity liquid with strong ammonia-like odor

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (DEC. F)	215	METHOD USED	OC
LOWER EXPLO. LEVEL	UNKNOWN	UPPER EXPLO. LEVEL	UNKNOWN

## EXTINGUISHING MEDIA-

Use water spray, dry chemical, "alcohol" foam, or carbon dioxide

## SPECIAL FIRE FIGHTING PROCEDURES-

Use water to keep fire-exposed containers cool. Water spray may be used to flush spills away from exposure and to dilute spills to nonflammable mixtures.

## UNUSUAL FIRE AND EXPLOSION HAZARDS-

Care must be taken to prevent ignition when processing or handling at temperatures above the flash point.

SECTION V - HEALTH HAZARD DATA

## THRESHOLD LIMIT VALUE-

ITEM 01

0.3 mg/m<sup>3</sup> Total Dust, 0.1 mg/m<sup>3</sup> Respirable Dust

## EFFECTS OF OVEREXPOSURE-

The International Agency for Research on Cancer (IARC) has classified crystalline silica as a probable carcinogen. The National Toxicology Program (NTP) has included crystalline silica on the NTP list of carcinogens. However, once it is part of a cured adhesive, the crystalline silica is fully encapsulated. Therefore no exposure should occur unless the cured adhesive is dry sanded or otherwise cut without proper local exhaust and/or the use of a NIOSH/MSHA approved respirator for dust. Eye and skin irritant.

## EMERGENCY AND FIRST AID PROCEDURES-

EYES: Wash eyes with large amounts of water. Obtain medical attention if irritation persists.

## THRESHOLD LIMIT VALUE-

ITEM 02

1 ppm (skin)

## EFFECTS OF OVEREXPOSURE-

EYES: May cause severe irritation with corneal injury which may result in permanent impairment of vision, even blindness. Vapors may irritate eyes. SKIN CONTACT: Short single exposure may cause severe skin burns. Has caused allergic skin reactions in humans. SKIN ABSORPTION: A single prolonged exposure may result in the material being absorbed in harmful amounts. The LD 50 for skin absorption in rabbits is 1000 mg/kg. INGESTION: Single dose oral toxicity is low. The oral LD50 for rats is between 1800-2330 mg/kg. Ingestion may cause gastrointestinal irritation or ulceration. Ingestion may cause burns of mouth and throat. INHALATION: May cause respiratory sensitization or asthma in susceptible individuals. Excessive exposure may cause irritation to upper respiratory tract. SYSTEMIC AND OTHER EFFECTS- Does not cause cancer in long-term animal studies. Results of in vitro (test tube) mutagenicity tests have been negative.

## EMERGENCY AND FIRST AID PROCEDURES -

EYES - Immediate and continuous irrigation with flowing water for at least 30 mins. is imperative. Prompt medical consultation is essential. SKIN - Immediately flush skin with plenty of water for at least 15 mins. while removing contaminated clothing, preferably under safety shower. See medical attention immediately. Avoid prolonged or repeated contact with skin. Wash thoroughly after handling. INGESTION - Do not induce vomiting. Give large amounts of water or milk if available and transport to medical facility. INHALATION - Remove to fresh air if effects occur. Consult a physician. NOTE TO PHYSICIAN: Corrosive. May cause stricture. If lavage is performed, suggest endotracheal and/or esophagoscopy control. If burn is present, treat as any thermal burn, after decontamination. No specific

SECTION V - HEALTH HAZARD DATA

105AEG0001 CONTINUED...

antidote. Supportive care. Treatment based on judgement of the physician in response to reactions of the patient.

THRESHOLD LIMIT VALUE-  
ITEM 03  
N.E.

EFFECTS OF OVEREXPOSURE-

EYES: Based on similar product testing, product may be moderately irritating to the eyes. Contact with product at elevated temperatures can result in thermal burns. SKIN: Based on similar product testing, product may be moderately irritating to the skin. Based on similar product testing, product may cause skin sensitization. Contact with product at elevated temperatures can result in thermal burns.

INHALATION: Because of its low volatility, this product is not likely to be an inhalation hazard. INGESTION: Based on similar product testing, this product is presumed to have a low order of acute oral toxicity.

SIGNS AND SYMPTOMS: Irritations as noted. Skin sensitization (allergy) may be evidenced by rashes, especially hives.

AGGRAVATED MEDICAL SYMPTOMS: Preexisting skin and eye disorders may be aggravated by exposure to this product. Preexisting skin or lung allergies may increase the chance of developing increased allergy symptoms from exposure to this product.

EMERGENCY AND FIRST AID PROCEDURES-

EYES: Flush with water for 15 minutes while holding eyelids open. Get medical attention. If contact with hot product occurs, immediately flush with cool water for 15 minutes. Get medical attention. SKIN: Remove contaminated clothing/shoes and wipe off excess from skin. Flush 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. If contact with hot product occurs, immediately flush with cool water for 15 minutes. Carefully remove clothing; if clothing is stuck to a burn area, do not pull it off, but cut around it. Cover burn area with a clean material. Get medical attention.

INHALATION: Remove victim to fresh air and provide oxygen if breathing is difficult. Get medical attention. INGESTION: DO NOT induce vomiting. In general, no treatment is necessary unless large quantities of product are ingested. However, get medical advice.

\*NOTES TO PHYSICIAN: In general, emesis induction is unnecessary in high viscosity, low volatility products, e.g., neat epoxy resins.

SECTION VI - REACTIVITY DATA

STABILITY STABLE

CONDITIONS TO AVOID-  
None

INCOMPATIBILITY (MATERIALS TO AVOID)-  
Avoid contamination with strong acids.

HAZARDOUS DECOMPOSITION PRODUCTS-  
Thermal decomposition may produce hydrogen cyanide, nitrogen oxides, carbon monoxide, and carbon dioxide.

HAZARDOUS POLYMERIZATION-  
WILL NOT OCCUR

CONDITIONS TO AVOID-  
Do not mix large batches of epoxy resin and DTA without recognition of development of exothermic heat.

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED-  
CLEANUP AND DISPOSAL SHOULD BE IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL ENVIRONMENTAL CONTROL REGULATIONS.

WASTE DISPOSAL METHOD-  
NOT APPLICABLE

SECTION VIII - SPECIAL PROTECTION INFORMATION