



MATERIAL SAFETY DATA SHEET

Chemical Product and Company Identification

LABEL IDENTIFIER: Dexter Epoxy-Patch

PRODUCT IDENTIFIER: P/N 28854 Epoxy Adhesive
P/N 484897 Hydrostatic Retest Marking Kit

COMPANY IDENTIFICATION: MINE SAFETY APPLIANCES COMPANY
P.O. Box 439
Pittsburgh, PA 15230
CUSTOMER SERVICE: 1-800-MSA-2222 (8:30 a.m. – 5:00 p.m., USA local time)
EMERGENCY: 1-800-255-3924 (CHEM-TEL, INC.)

Vendor Information

A Material Safety Data Sheet as furnished by the Dexter Corporation for Epoxy Patch EPK 0151 Hardener is attached (4 Pages).

Dexter Corporation MSDS REVISION DATE: 2/9/98

Other Information

WARNING: This is a hazardous chemical product. By following the directions and warnings provided with this product, the hazards associated with the use of this product can be greatly reduced but never entirely eliminated. Mine Safety Appliances Company makes no warranties, expressed or implied, with respect to this product and EXPRESSLY DISCLAIMS THE WARRANTY OF MERCHANTABILITY AND ANY WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE. Users assume all risks in handling, using or storing this product.

MATERIAL SAFETY DATA SHEET

POLYMER SYSTEMS
THE DEXTER CORPORATION
ONE DEXTER DRIVE
SEABROOK, NH 03874

TELEPHONE 603-474-5541
EMERGENCY 1-800-424-9300
(FOR EMERGENCY USE ONLY)

2/04/99

EUROPEAN SALES
Dexter Polymer Systems
Stag Industrial Estate
Atlantic Street
Altrincham, Cheshire
England
WA14 5DW8
Phone: 0161-929-0424
Fax: 0161-929-0425

SOUTH EAST ASIA SALES
Dexter Asia Pacific LTD
6, Tuas Avenue 8
Singapore
639221
Phone: 065-862-0261
Fax: 065-861-8850

PRODUCT CODE: AB0151- HMIS 211 REVISION
DESCRIPTION: EPK 0151 PART B NBR: 05 02/09/98

* N.A. = NOT APPLICABLE

N.E. = NOT ESTABLISHED

SECTION I - NOMENCLATURE

CHEMICAL NAME AND SYNONYMS
EPOXY PATCH KIT RESIN

TRADE NAME AND SYNONYMS
EPK 0151 Hardener

CHEMICAL FAMILY
Polyamide Resin Compound

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	HAZD
01-Triethylenetetramine	10-30	1 ppm		000112243	H
02-Reactive Polyamide	60-100		N.E.	068410231	H

SECTION III - PHYSICAL DATA

BOILING PT (DEG. F)	500	SPECIFIC GRAVITY	0.97
VAPOR PRESSURE (MM HG)	<0.01	PCT VOLATILE BY VOL	0
PCT VOLATILE BY WEIGHT	<10 gm/l	EVAPORATION RATE	<0.01
SOLUBILITY IN WATER	20%	VAPOR DENSITY (AIR=1)	5
APPEARANCE AND ODOR-	Translucent amber, medium viscosity, slight ammonia odor		

SECTION III - PHYSICAL DATA

AB0151 CONTINUED...

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (DEG. F)	265	METHOD USED	Calculated
LOWER EXPLO. LEVEL	unknown	UPPER EXPLO. LEVEL	unknown

EXTINGUISHING MEDIA-
Carbon dioxide, dry chemical for small fires. Foam for large fires.

SPECIAL FIRE FIGHTING PROCEDURES-
Wear self-contained breathing apparatus and full protective clothing.

UNUSUAL FIRE AND EXPLOSION HAZARDS-
None

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE-
ITEM 01
1 ppm (skin)

EFFECTS OF OVEREXPOSURE-
EYES: May cause pain. May cause severe irritation with corneal injury which may result in permanent impairment of vision, even blindness.
SKIN CONTACT: Short single exposure may cause severe skin burns. Has caused allergic reactions in humans. DOT classification: corrosive.
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 800 mg/kg. **INHALATION:** May cause respiratory sensitization in susceptible individuals. Excessive exposure may cause irritation to upper respiratory tract. **INGESTION:** Single dose oral toxicity is low. The oral LD 50 for rats is 4340 mg/kg. Ingestion may cause gastrointestinal irritation or ulceration. Ingestion may cause burns of mouth and throat.
SYSTEMIC AND OTHER EFFECTS- Did not cause cancer in long-term animal studies. Birth defects are unlikely. In laboratory animals fed exaggerated doses, adverse fetal effects occurred that were believed to be associated with an observed copper deficiency. However, exposures having no adverse effects on the mother should have no effect on the fetus. Results of in vitro (test tube) mutagenicity tests have been positive.

EMERGENCY AND FIRST AID PROCEDURES-
EYES: Immediate and continuous irrigation with flowing water for at least 30 minutes is imperative. Prompt medical consultation is essential.
SKIN: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Call a physician if irritation persists. Wash clothing before reuse. Destroy contaminated shoes and other leather items or articles which cannot be decontaminated. **INGESTION:** DO NOT induce vomiting. Give large amounts of water or milk if available. Transport to medical facility.
INHALATION: Remove to fresh air if effects occur. Call a physician.
NOTES TO PHYSICIAN: May cause tissue destruction leading to stricture. If lavage is performed, suggest endotracheal and/or esophagoscopy control. If burn is present, treat as thermal burn- after decontamination. No specific antidote. Supportive care. Treatment based on judgement of the physician in response to reactions of the patient. Excessive exposure may aggravate preexisting asthma.

THRESHOLD LIMIT VALUE
ITEM 02
N.E.

EFFECTS OF OVEREXPOSURE-
EYES: Can cause severe eye irritation or burns. May cause permanent visual impairment. **SKIN:** Causes severe skin irritation or burns. Not considered toxic by skin absorption but prolonged exposure may cause absorption of harmful amounts. **INHALATION:** May cause irritation to upper respiratory tract. Avoid prolonged or repeated inhalation. **INGESTION:** May cause gastrointestinal irritation or ulceration. May cause burns of mouth and throat.
OTHER: Polyethylene amines are suspected mutagens. No effects of chronic exposure or target organ effects are known. No exposure limits have been established for this product as formulated.

SECTION V - HEALTH HAZARD DATA

AB0151 CONTINUED...

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 immediately for 15 minutes. SKIN: Flush immediately with water for 15 minutes while removing contaminated clothing and shoes. Call a physician. INHALATION: Remove to fresh air. If symptoms persist, consult a physician. INGESTION: DO NOT induce vomiting. Give a large quantity of milk or water. DO NOT give fluids to an unconscious person. Call a physician.

SECTION VI - REACTIVITY DATA

STABILITY STABLE

CONDITIONS TO AVOID-
None

INCOMPATIBILITY (MATERIALS TO AVOID)-
Strong acids and chlorinated compounds

HAZARDOUS DECOMPOSITION PRODUCTS-
Nitrogen oxides, carbon dioxide, and carbon monoxide

HAZARDOUS POLYMERIZATION-
WILL NOT OCCUR

CONDITIONS TO AVOID-
None

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

RESPIRATORY PROTECTION (SPECIFY TYPE)-
Fresh air mask in confined spaces.

VENTILATION-
Local exhaust preferred, mechanical exhaust acceptable. Respirators available if ventilation fails.

PROTECTIVE GLOVES-
Rubber or Plastic

EYE PROTECTION-
Safety glasses or goggles

OTHER PROTECTIVE EQUIPMENT-
Safety shower and eye bath.

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN STORAGE AND HANDLING-
Keep containers tightly sealed.

OTHER PRECAUTIONS-
Avoid skin and eye 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. *

SECTION IX - SPECIAL PRECAUTIONS

AB0151 CONTINUED...

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.

CONTACT: Cathy Follansbee

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