

MATERIAL SAFETY 3M
 DATA SHEET 3M Center
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DIVISION: ENGINEERED ADHESIVES

TRADE NAME:

SCOTCH-WELD (TM) EPX - DP-490 B/A, WHITE

ID NUMBER/U.P.C.:

FS-9100-1632-8 - - - FS-9100-1691-1 - - -
 FS-9100-1926-4 - - -

ISSUED: May 21, 2001

SUPERSEDES: May 17, 2001

DOCUMENT: 07-0922-0

1. INGREDIENT	C.A.S. NO.	PERCENT
PART A (XA-7221)	None	Unknown
ALIPHATIC POLYMERIC DIAMINE	68911-25-1	55.0 - 60.0
MODIFIED ACRYLONITRILE BUTADIENE RUBBER	68683-29-4	10.0 - 15.0
2,4,6-TRIS(DIMETHYLAMINOMETHYL) PHENOL	90-72-2	10.0 - 15.0
AMORPHOUS SILICON DIOXIDE	67762-90-7	5.0 - 10.0
4,7,10-TRIOXATRIDECANE-1,13-DIAMINE	4246-51-9	5.0 - 10.0
PART B (XA-7220)	None	Unknown
EPOXY RESIN	25068-38-6	55.0 - 65.0
WETTING AGENT	2530-83-8	1.0
SILICONE DIOXIDE	67762-90-7	1.0 - 5.0
GLASS BUBBLES	None	1.0 - 5.0
TITANIUM DIOXIDE	13463-67-7	1.0 - 5.0
ACRYLATE POLYMER	None	15.0 - 20.0

2. PHYSICAL DATA

BOILING POINT: N/D
 VAPOR PRESSURE: N/D
 VAPOR DENSITY: N/D
 EVAPORATION RATE: N/D
 SOLUBILITY IN WATER: nil
 SPECIFIC GRAVITY: ca. 1.050 Water=1
 PERCENT VOLATILE: ca. 0.00 %
 pH: N/A
 VISCOSITY: N/D
 MELTING POINT: N/D

Abbreviations: N/D - Not Determined N/A - Not Applicable CA - Approximately

2. PHYSICAL DATA (continued)

APPEARANCE AND ODOR:

Paste, white color, non-sagging, base has an epoxy resin odor, and hardner an amine odor.

3. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT:..... > 100.00 C
FLAMMABLE LIMITS - LEL:..... N/D
FLAMMABLE LIMITS - UEL:..... N/D
AUTOIGNITION TEMPERATURE:..... N/D

EXTINGUISHING MEDIA:

Water, Carbon dioxide, Dry chemical, Foam

SPECIAL FIRE FIGHTING PROCEDURES:

Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

None known.

NFPA HAZARD CODES: HEALTH: 2 FIRE: 1 REACTIVITY: 1
UNUSUAL REACTION HAZARD: none

4. REACTIVITY DATA

STABILITY: Stable

INCOMPATIBILITY - MATERIALS/CONDITIONS TO AVOID:

Strong Acids, Strong Bases, Strong Oxidizing Agents, Heat.

HAZARDOUS POLYMERIZATION: Hazardous polymerization will not occur.

HAZARDOUS DECOMPOSITION PRODUCTS:

Carbon Monoxide and Carbon Dioxide, Oxides of Nitrogen.

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5. ENVIRONMENTAL INFORMATION

SPILL RESPONSE:

Observe precautions from other sections. Cover with absorbent material. Collect spilled material. Place in an approved metal container.

RECOMMENDED DISPOSAL:

Cure product according to product instructions. Incinerate uncured waste in an industrial or commercial incinerator. Dispose of completely cured (or polymerized) material in a sanitary landfill.

ENVIRONMENTAL DATA:

Not determined.

REGULATORY INFORMATION:

Volatile Organic Compounds: N/D.
VOC Less H2O & Exempt Solvents: N/D.

Since regulations vary, consult applicable regulations or authorities before disposal. U.S. EPA Hazardous Waste Number = None (Not U.S. EPA Hazardous).

EPCRA HAZARD CLASS:

FIRE HAZARD: No PRESSURE: No REACTIVITY: No ACUTE: Yes CHRONIC: Yes

6. SUGGESTED FIRST AID

EYE CONTACT:

Immediately flush eyes with large amounts of water. Get immediate medical attention.

SKIN CONTACT:

Immediately wash skin with soap and large amounts of water. Remove contaminated clothing. If signs/symptoms occur, call a physician. Wash contaminated clothing before reuse and dispose of contaminated shoes.

INHALATION:

If signs/symptoms occur, remove person to fresh air. If signs/symptoms continue, call a physician.

IF SWALLOWED:

Do not induce vomiting. Drink two glasses of water. Call a physician.

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7. PRECAUTIONARY INFORMATION

EYE PROTECTION:

Avoid eye contact. Wear vented goggles. Wear safety glasses with side shields.

SKIN PROTECTION:

Avoid skin contact. Wear appropriate gloves when handling this material. A pair of gloves made from the following material(s) are recommended: butyl rubber, polyethylene/ethylene vinyl alcohol.

RECOMMENDED VENTILATION:

Provide appropriate local exhaust for grinding, cutting or sanding cured material. Curing ovens must be exhausted to outdoors or to a suitable emission control device. Use in a well-ventilated area. If exhaust ventilation is not adequate, use appropriate respiratory protection.

RESPIRATORY PROTECTION:

Avoid breathing of vapors created during the cure cycle. Avoid breathing of dust created by cutting, sanding or grinding. Select one of the following NIOSH approved respirators based on airborne concentration of contaminants and in accordance with OSHA regulations: half-mask dust respirator.

PREVENTION OF ACCIDENTAL INGESTION:

Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water. Do not ingest.

RECOMMENDED STORAGE:

Store away from heat. Keep out of the reach of children.

FIRE AND EXPLOSION AVOIDANCE:

Not applicable.

EXPOSURE LIMITS

INGREDIENT	VALUE	UNIT	TYPE	AUTH	SKIN*
PART A (XA-7221).....	NONE	NONE	NONE	NONE	
ALIPHATIC POLYMERIC DIAMINE.....	NONE	NONE	NONE	NONE	
MODIFIED ACRYLONITRILE BUTADIENE RUBBER.....	NONE	NONE	NONE	NONE	
2,4,6-TRIS(DIMETHYLAMINOMETHYL) PHENOL.....	5	PPM	TWA	CMRG	
AMORPHOUS SILICON DIOXIDE.....	5	MG/M3	CEIL	CMRG	
		AS DUST			
4,7,10-TRIOXATRIDECANE-1,13- DIAMINE.....	NONE	NONE	NONE	NONE	
PART B (XA-7220).....	NONE	NONE	NONE	NONE	
EPOXY RESIN.....	NONE	NONE	NONE	NONE	

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EXPOSURE LIMITS (continued)

INGREDIENT	VALUE	UNIT	TYPE	AUTH	SKIN*
WETTING AGENT.....	5	PPM	TWA	CMRG	
SILICONE DIOXIDE.....	5	MG/M3	CEIL	CMRG	
		AS DUST			
GLASS BUBBLES.....	NONE	NONE	NONE	NONE	
TITANIUM DIOXIDE.....	10	MG/M3	TWA	ACGIH	
TITANIUM DIOXIDE.....	10	MG/M3	TWA	OSHAV	
		AS DUST			
		OSHA VACATED PEL			
TITANIUM DIOXIDE.....	15	MG/M3	TWA	OSHA	
		AS TOTAL DUST			
TITANIUM DIOXIDE.....	5	MG/M3	TWA	CMRG	
		AS RESPIRABLE DUST			
ACRYLATE POLYMER.....	NONE	NONE	NONE	NONE	

* SKIN NOTATION: Listed substances indicated with 'Y' under SKIN refer to the potential contribution to the overall exposure by the cutaneous route including mucous membrane and eye, either by airborne or, more particularly, by direct contact with the substance. Vehicles can alter skin absorption.

SOURCE OF EXPOSURE LIMIT DATA:

- ACGIH: American Conference of Governmental Industrial Hygienists
- CMRG: Chemical Manufacturer Recommended Exposure Guidelines
- OSHA: Occupational Safety and Health Administration
- OSHAV: Occupational Safety and Health Administration Vacated PEL.
 Vacated Permissible Exposure Limits (PEL) are enforced as the OSHA PEL in some states. Check with your local regulatory authority.
- NONE: None Established

8. HEALTH HAZARD DATA

EYE CONTACT:

Severe Eye Irritation: signs/symptoms can include redness, swelling, pain, tearing, cloudy appearance of the cornea, impaired vision and possible permanently impaired vision.

Vapors from heated material may cause eye irritation.

Dust created by cutting, grinding, sanding, or machining may cause eye irritation.

SKIN CONTACT:

Allergic Skin Reaction: signs/symptoms can include redness, swelling, blistering, and itching.

Moderate Skin Irritation: signs/symptoms can include redness, swelling, itching, and dryness.

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8. HEALTH HAZARD DATA (continued)

May be absorbed through the skin and produce effects similiar to those caused by inhalation and/or ingestion.

INHALATION:

Irritation (upper respiratory): signs/symptoms can include soreness of the nose and throat, coughing and sneezing.

Vapors of heated material may cause respiratory system irritation.

Dust from cutting, grinding, sanding or machining may cause irritation of the respiratory system.

IF SWALLOWED:

Ingestion may cause:

Irritation of Gastrointestinal Tissues: signs/symptoms can include pain, vomiting, abdominal tenderness, nausea, blood in vomitus, and blood in feces.

SECTION CHANGE DATES

PRECAUTIONARY INFO. SECTION CHANGED SINCE May 17, 2001 ISSUE

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