

3M General Offices

3M Center
St. Paul, MN 55144-1000
612 733 111001-98
5214MATERIAL SAFETY
DATA SHEET

221

DIVISION: ELECTRICAL SPECIALTIES DIV
TRADE NAME:
3M ELECTRICAL TAPES - THERMOSET ADHESIVEISSUED: JANUARY 26, 1996
SUPERSEDES: FEBRUARY 23, 1995
DOCUMENT: 06-0776-2

1. INGREDIENT	C.A.S. NO.	PERCENT
TAPE BACKING	Unknown	50 - 75
PRESSURE SENSITIVE ADHESIVE	Unknown	25 - 50

NOTE: Tape backings include epoxy film, polyester film, polytetrafluoroethylene film, polyimide film, acetate cloth, glass cloth, paper, composite film/fiber, and composite film/nonwoven. Adhesives used include rubber resin and silicone.

2. PHYSICAL DATA

BOILING POINT:..... N/A
 VAPOR PRESSURE:..... N/A
 VAPOR DENSITY:..... N/A
 EVAPORATION RATE:..... N/A
 SOLUBILITY IN WATER:..... N/A
 SP. GRAVITY:..... N/D
 PERCENT VOLATILE:..... N/A
 VOLATILE ORGANICS:..... N/A
 VOC LESS H₂O & EXEMPT SOLVENT N/A
 pH:..... N/A
 VISCOSITY:..... N/A
 MELTING POINT..... N/D
 APPEARANCE AND ODOR: Roll of Tape

3. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT:..... N/A
 FLAMMABLE LIMITS - LEL:..... N/A
 FLAMMABLE LIMITS - UEL:..... N/A
 AUTOIGNITION TEMPERATURE: ... N/D
 EXTINGUISHING MEDIA:
 Water spray, 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: 0 FIRE: 0 REACTIVITY: 0
 UNUSUAL REACTION HAZARD: none
 OSHA FIRE HAZARD CLASS: Not applicable

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

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4. REACTIVITY DATA

STABILITY: Stable**INCOMPATIBILITY - MATERIALS TO AVOID:**

None known.

HAZARDOUS POLYMERIZATION: Will Not Occur**HAZARDOUS DECOMPOSITION PRODUCTS:**Carbon Monoxide and Carbon Dioxide, Hydrocarbons, Toxic Vapors, Gases
or Particulates.

5. ENVIRONMENTAL INFORMATION

SPILL RESPONSE:

Not applicable.

RECOMMENDED DISPOSAL:

Dispose of waste product in a sanitary landfill.

ENVIRONMENTAL DATA:

Not determined.

REGULATORY INFORMATION:Since regulations vary, consult applicable regulations or authorities
before disposal.**EPCRA HAZARD CLASS:****FIRE HAZARD:** No **PRESSURE:** No **REACTIVITY:** No **ACUTE:** No **CHRONIC:** No

6. SUGGESTED FIRST AID

EYE CONTACT:Immediately flush eyes with large amounts of water. Get immediate
medical attention.**SKIN CONTACT:**Immediately flush affected area with plenty of cold water and cover
with a clean dressing. DO NOT ATTEMPT TO REMOVE MOLTEN MATERIAL. Have
burn treated by a physician.**INHALATION:**If signs/symptoms occur, remove person to fresh air. If
signs/symptoms continue, call a physician.**IF SWALLOWED:**

Drink two glasses of water. Call a physician.

7. PRECAUTIONARY INFORMATION

EYE PROTECTION:

Avoid eye contact.

SKIN PROTECTION:

Avoid skin contact with hot material.

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7. PRECAUTIONARY INFORMATION (continued)

Wear gloves and long sleeves if prolonged or repeated exposure to glass fiber tapes is expected.

VENTILATION PROTECTION:

Provide appropriate local exhaust for heat curing. If exhaust ventilation is not available, use appropriate respiratory protection.

RESPIRATORY PROTECTION:

Avoid breathing of vapors created during the cure cycle. Select one of the following NIOSH approved respirators based on airborne concentration of contaminants and in accordance with OSHA regulations: half-mask organic vapor respirator.

PREVENTION OF ACCIDENTAL INGESTION:

Wash hands after handling and before eating.

RECOMMENDED STORAGE:

Store at temperature and conditions as recommended on product literature.

FIRE AND EXPLOSION AVOIDANCE:

Not applicable.

INGREDIENTS	EXPOSURE LIMITS		TYPE AUTH	SKIN*
	VALUE	UNIT		
TAPE BACKING	NONE	NONE	NONE NONE	
PRESSURE SENSITIVE ADHESIVE	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:

- NONE: None Established

8. HEALTH HAZARD DATA

EYE CONTACT:

Vapors from heated material may cause eye irritation.

SKIN CONTACT:

Skin Burns (thermal, from contact with hot material): signs/symptoms can include burning pain, red and swollen skin, and blisters.

Mechanical skin irritation: signs/symptoms can include itching and redness.

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8. HEALTH HAZARD DATA (continued)

INHALATION:

Vapors of heated material may cause respiratory system irritation.

IF SWALLOWED:

Ingestion is not a likely route of exposure to this product.

SECTION CHANGE DATES

HEADING	SECTION CHANGED SINCE	FEBRUARY 23, 1995 ISSUE
PRECAUT. INFO.	SECTION CHANGED SINCE	FEBRUARY 23, 1995 ISSUE
HEALTH HAZD. DATA	SECTION CHANGED SINCE	FEBRUARY 23, 1995 ISSUE

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The information on this Data Sheet represents our current data and best opinion as to the proper use in handling of this material under normal conditions. Any use of the material which is not in conformance with this Data Sheet or which involves using the material in combination with any other material or any other process is the responsibility of the user.