

MATERIAL SAFETY 3M  
 DATA SHEET 3M Center  
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DIVISION: ELECTRICAL PRODUCTS DIVISION  
 TRADE NAME:  
 3M ELECTRICAL TAPE 27, 69, 90  
 ISSUED: August 24, 2000  
 SUPERSEDES: August 12, 1998  
 DOCUMENT: 07-4974-7

1. INGREDIENT	C.A.S. NO.	PERCENT	
GLASS CLOTH.....	65997-17-3	60	- 70
ADHESIVE.....	Unknown	30	- 40

NOTE: The thermoset adhesive may be rubber or silicone.  
 The glass cloth is electrical grade glass cloth made from continuous  
 glass filaments. The warp yarn is 450 1/0 "D" fiber; the fill yarn is  
 100 1/0 "DE" fiber.

2. PHYSICAL DATA

BOILING POINT:..... N/A  
 VAPOR PRESSURE:..... N/A  
 VAPOR DENSITY:..... N/A  
 EVAPORATION RATE:..... N/A  
 SOLUBILITY IN WATER:..... N/A  
 SPECIFIC GRAVITY:..... N/D  
 PERCENT VOLATILE:..... 0 %  
 pH:..... N/A  
 VISCOSITY:..... N/A  
 MELTING POINT:..... N/A

APPEARANCE AND ODOR:  
 Roll of Tape, White

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

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3. FIRE AND EXPLOSION HAZARD DATA  
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FLASH POINT:..... N/A  
FLAMMABLE LIMITS - LEL:..... N/A  
FLAMMABLE LIMITS - UEL:..... N/A  
AUTOIGNITION TEMPERATURE:..... N/D

EXTINGUISHING MEDIA:  
Water, Carbon dioxide

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

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4. REACTIVITY DATA  
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STABILITY: Stable

INCOMPATIBILITY - MATERIALS/CONDITIONS TO AVOID:  
None known.

HAZARDOUS POLYMERIZATION: Hazardous polymerization will not occur.

HAZARDOUS DECOMPOSITION PRODUCTS:  
Carbon Monoxide and Carbon Dioxide.

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5. ENVIRONMENTAL INFORMATION  
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SPILL RESPONSE:  
Not applicable.

RECOMMENDED DISPOSAL:  
Dispose of waste product in a sanitary landfill.

ENVIRONMENTAL DATA:  
Not determined.

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5. ENVIRONMENTAL INFORMATION (continued)  
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REGULATORY INFORMATION:

Volatile Organic Compounds: 0 %.  
VOC Less H2O & Exempt Solvents: 0 %.

Since regulations vary, consult applicable regulations or authorities before disposal.

EPCRA HAZARD CLASS:

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

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6. SUGGESTED FIRST AID  
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EYE CONTACT:

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

SKIN CONTACT:

If skin contact with hot material occurs: DO NOT ATTEMPT TO REMOVE MOLTEN MATERIAL. Immediately flush affected area with plenty of cold water and cover with a clean dressing. 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.

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7. PRECAUTIONARY INFORMATION  
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EYE PROTECTION:

Avoid eye contact.

SKIN PROTECTION:

Avoid skin contact with hot material.

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

RECOMMENDED VENTILATION:

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

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7. PRECAUTIONARY INFORMATION (continued)  
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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, 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.

EXPOSURE LIMITS

INGREDIENT	VALUE	UNIT	TYPE	AUTH	SKIN*
GLASS CLOTH.....	10	MG/M3	TWA	3M	
		AS DUST			
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:

- 3M: 3M Recommended Exposure Guidelines
- NONE: None Established

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8. HEALTH HAZARD DATA  
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EYE CONTACT:

Vapors from heated material may cause eye irritation.

Mechanical eye irritation: signs/symptoms can include irritation, redness, scratching of the cornea and tearing.

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8. HEALTH HAZARD DATA (continued)  
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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.

INHALATION:

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 is not a likely route of exposure to this product.

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SECTION CHANGE DATES  
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INGREDIENTS                      SECTION CHANGED SINCE August 12, 1998                      ISSUE

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