

MATERIAL SAFETY 3M
 DATA SHEET 3M Center
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DIVISION: ELECTRICAL PRODUCTS DIVISION

TRADE NAME:

SCOTCHCAST BRAND ELECTRICAL INSULATING RESIN NO. 4 PARTS A AND B
 (UNIPAK)

ID NUMBER/U.P.C.:

DE-7000-0401-8	-	-	-	DE-7000-0402-6	-	-	-
DE-7000-0403-4	-	-	-	DE-7000-0406-7	-	-	-
DE-7000-0439-8	-	-	-	DE-7000-0440-6	-	-	-
DE-7000-0442-2	-	-	-	DE-7000-0443-0	-	-	-
DE-7000-0444-8	-	-	-	DE-7000-0445-5	-	-	-
DE-7000-1624-4	-	-	-	DE-7000-1625-1	-	-	-
DE-7000-1626-9	-	-	-	DE-7000-1627-7	-	-	-
DE-7000-1628-5	-	-	-	DE-7000-1629-3	-	-	-
DE-7000-1630-1	-	-	-	DE-7000-1631-9	-	-	-
DE-7000-1632-7	-	-	-	DE-7000-1636-8	-	-	-
DE-7000-1637-6	-	-	-	DE-7000-1638-4	-	-	-
DE-7000-1639-2	-	-	-	DE-7000-1640-0	-	-	-
DE-7000-1644-2	-	-	-	DE-7000-1645-9	-	-	-
DE-7000-1646-7	-	-	-	DE-7008-0407-8	-	-	-
DE-7110-1902-1	-	-	-	DE-7110-1903-9	-	-	-
DE-7110-1904-7	-	-	-	DE-7110-1905-4	-	-	-
DE-7110-1906-2	-	-	-	DE-7110-1907-0	-	-	-
DE-7110-1908-8	-	-	-	DE-7110-1909-6	-	-	-
DE-7110-1910-4	-	-	-	DE-7110-1911-2	-	-	-
DE-7110-1912-0	-	-	-	DE-7110-1913-8	-	-	-
DE-7110-1914-6	-	-	-	DE-7110-1915-3	-	-	-
DE-7110-1916-1	-	-	-	DE-7110-1917-9	-	-	-
DE-7110-1920-3	-	-	-	DE-7110-1921-1	-	-	-
DE-7110-1924-5	-	-	-	DE-7110-1925-2	-	-	-
DE-7110-1926-0	-	-	-	DE-7110-1927-8	-	-	-
DE-7110-1928-6	-	-	-	DE-7110-1930-2	-	-	-
DE-7110-1931-0	-	-	-	DE-7110-1932-8	-	-	-
DE-7110-1933-6	-	-	-	DE-7110-1934-4	-	-	-
DE-7110-1935-1	-	-	-	DE-7110-1936-9	-	-	-
DE-7110-1937-7	-	-	-	DE-7110-1938-5	-	-	-
DE-7110-1949-2	-	-	-	DE-7110-1950-0	-	-	-
DE-7110-1951-8	-	-	-	DE-7110-1952-6	-	-	-
DE-7110-1953-4	-	-	-	DE-7110-1954-2	-	-	-
DE-7110-3023-4	-	-	-	DE-7110-3024-2	-	-	-
DE-7110-3025-9	-	-	-	DE-7110-3031-7	-	-	-
DE-7110-3032-5	-	-	-	DE-7110-3033-3	-	-	-
DE-7110-3037-4	-	-	-	DE-7110-3038-2	-	-	-

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

December 11, 2001

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HEADING (continued)

DE-7110-9918-9	-	-	-	DE-7110-9920-5	-	-	-
DE-7110-9922-1	-	-	-	DG-H000-5011-5	-	-	-
FE-5100-4827-8	-	-	-	FE-5100-6024-0	-	-	-
FE-5100-6025-7	-	-	-				

ISSUED: December 11, 2001
SUPERSEDES: April 17, 2001
DOCUMENT: 11-1919-7

1. INGREDIENT	C.A.S. NO.	PERCENT	
PART A.....	None	N/A	
EPOXY RESIN.....	25068-38-6	65.0	- 70.0
PHENOL-FORMALDEHYDE POLYMER GLYCIDYL ETHER.....	28064-14-4	25	- 30
ALKYL(C10-C16)GLYCIDYL ETHER.....	68081-84-5	1	- 5
PART B.....	None	N/A	
Epoxy Resin.....	25068-38-6	1	- 5
FATTY ACIDS, TALL-OIL, REACTION PRODUCTS WITH TRIETHYLENETETRAMINE....	68919-79-9	15	- 20
SOLVENT-REFINED HEAVY PARAFFINIC PETROLEUM DISTILLATES.....	64741-88-4	15	- 20
N-AMINOETHYLPIPERAZINE.....	140-31-8	15	- 20
PARTIALLY HYDROGENATED AROMATIC HYDROCARBON OIL.....	38640-62-9	1.0	- 5.0
2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL...	90-72-2	1.0	- 5.0
PHENOL, 4-NONYL-, branched.....	84852-15-3	35	- 40
PHENOL-FORMALDEHYDE POLYMER GLYCIDYL ETHER.....	28064-14-4	1	- 5
CARBON BLACK.....	1333-86-4	0.1	- 1.0

2. PHYSICAL DATA

BOILING POINT:..... N/A
VAPOR PRESSURE:..... N/A
VAPOR DENSITY:..... N/A
EVAPORATION RATE:..... N/A
SOLUBILITY IN WATER:..... nil
SPECIFIC GRAVITY:..... 0.900 - 1.200 Water=1
PERCENT VOLATILE:..... N/A
pH:..... N/A
VISCOSITY:..... 2500.0 - 3500.0 centipoise
MELTING POINT:..... N/D

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

2. PHYSICAL DATA (continued)

APPEARANCE AND ODOR:

PART A is a transparent, light-yellow liquid with a characteristic odor. Part B is black liquid.

3. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT:..... > 150.00 C

FLAMMABLE LIMITS - LEL:..... N/D

FLAMMABLE LIMITS - UEL:..... N/D

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. Water or foam may cause frothing.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Not determined.

NFPA HAZARD CODES: HEALTH: 2 FIRE: 1 REACTIVITY: 0

UNUSUAL REACTION HAZARD: none

4. REACTIVITY DATA

STABILITY: Stable

INCOMPATIBILITY - MATERIALS/CONDITIONS TO AVOID:

None known.

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. Ventilate area. Contain spill. Cover with absorbent material. Collect spilled material. Clean up residue. Place in a closed container.

RECOMMENDED DISPOSAL:

Incinerate in an industrial or commercial facility in the presence of a combustible material. 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 for at least 15 minutes. Get immediate medical attention.

SKIN CONTACT:

Immediately flush skin with large amounts of water. Remove contaminated clothing. If irritation persists, call a physician. Wash contaminated clothing before reuse.

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.

7. PRECAUTIONARY INFORMATION

EYE PROTECTION:

Avoid eye contact. 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, neoprene, nitrile rubber, polyethylene, polyvinyl chloride. Use one or more of the following personal protection items as necessary to prevent skin contact: apron. Protective garments (other than gloves) should be made of either of the following materials: neoprene, nitrile rubber.

RECOMMENDED VENTILATION:

Use in a well-ventilated area.

RESPIRATORY PROTECTION:

Avoid breathing of vapors created during the cure cycle.

PREVENTION OF ACCIDENTAL INGESTION:

Wash hands after handling and before eating.

RECOMMENDED STORAGE:

Store at room temperature.

FIRE AND EXPLOSION AVOIDANCE:

Keep away from heat, sparks, open flame, and other sources of ignition. No smoking while handling this material.

EXPOSURE LIMITS

INGREDIENT	VALUE	UNIT	TYPE	AUTH	SKIN*
PART A.....	NONE	NONE	NONE	NONE	
EPOXY RESIN.....	NONE	NONE	NONE	NONE	
PHENOL-FORMALDEHYDE POLYMER					
GLYCIDYL ETHER.....	NONE	NONE	NONE	NONE	
ALKYL(C10-C16)GLYCIDYL ETHER.....	NONE	NONE	NONE	NONE	
PART B.....	NONE	NONE	NONE	NONE	
Epoxy Resin.....	NONE	NONE	NONE	NONE	
FATTY ACIDS, TALL-OIL, REACTION					
PRODUCTS WITH TRIETHYLENETETRAMINE.	NONE	NONE	NONE	NONE	
SOLVENT-REFINED HEAVY PARAFFINIC					
PETROLEUM DISTILLATES.....	5	MG/M3	TWA	CMRG	
N-AMINOETHYLPIPERAZINE.....	NONE	NONE	NONE	NONE	
PARTIALLY HYDROGENATED AROMATIC					
HYDROCARBON OIL.....	NONE	NONE	NONE	NONE	
2,4,6-					
TRIS(DIMETHYLAMINOMETHYL)PHENOL....	5	PPM	TWA	CMRG	

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

EXPOSURE LIMITS (continued)

INGREDIENT	VALUE	UNIT	TYPE	AUTH	SKIN*
PHENOL, 4-NONYL-, branched.....	NONE	NONE	NONE	NONE	
PHENOL-FORMALDEHYDE POLYMER					
GLYCIDYL ETHER.....	NONE	NONE	NONE	NONE	
CARBON BLACK.....	3.5	MG/M3	TWA	ACGIH	
CARBON BLACK.....	3.5	MG/M3	TWA	OSHA	
CARBON BLACK.....	0.5	MG/M3	TWA	CMRG	

* 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
- NONE: None Established

8. HEALTH HAZARD DATA

EYE CONTACT:

Chemical Related Eye Burns (chemical corrosivity): signs/symptoms can include cloudy appearance of the cornea, chemical burns, pain, tearing, ulcers, impaired vision or loss of vision.

SKIN CONTACT:

Skin Burns (chemical corrosivity): signs/symptoms can include redness, swelling, itching, pain, blistering, ulceration, sloughing, and scar formation.

Single exposure may cause:

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

INHALATION:

Prolonged or repeated overexposure, above recommended guidelines, may cause:

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

IF SWALLOWED:

Illness may occur after a single swallowing of relatively large quantities of this material.

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8. HEALTH HAZARD DATA (continued)

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

CANCER:

WARNING: Contains a chemical which can cause cancer. (1333-86-4)
(IARC possible human carcinogen 2B)

SECTION CHANGE DATES

INGREDIENTS	SECTION CHANGED SINCE	April 17, 2001	ISSUE
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