

## 3M General Offices

3M Center  
St. Paul, Minnesota 55144-1000  
612/733-1110

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MATERIAL SAFETY  
DATA SHEET

DIVISION: ELECTRICAL PRODUCTS DIVISION  
TRADE NAME:  
SCOTCHCAST BRAND ELECTRICAL INSULATING RESIN 400

## 3M I.D. NUMBER:

ISSUED: AUGUST 21, 1992  
SUPERSEDES: MAY 1, 1992  
DOCUMENT: 10-2609-5

1. INGREDIENT	C.A.S. NO.	PERCENT
PART A: BISPHENOL A-EPICHLOROHYDRIN COPOLYMER	25068-38-6	75.0 - 85.0
VINYLCYCLOHEXENE DIOXIDE	106-87-6	15.0 - 25.0
PART B: POLYOXYPROPYLENE POLYOL	52625-13-5	50.0 - 60.0
CASTOR OIL	8001-79-4	30.0 - 35.0
POLYSTYRENE	9003-53-6	10.0 - 20.0
PETROLEUM DISTILLATE	8002-05-9	1.0 - 5.0
BIS(TRIFLUOROMETHYL SULFONYL) METHANE	428-76-2	1.0 - 5.0
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  
SP. GRAVITY:..... A: 1.15 B: 1.05  
PERCENT VOLATILE:..... 0  
VOLATILE ORGANICS:..... N/D  
VOC LESS H<sub>2</sub>O & EXEMPT SOLVENT N/D  
pH:..... N/A  
VISCOSITY:..... A:1000cps B:4000cps  
MELTING POINT..... N/D  
APPEARANCE AND ODOR: A:Clear amber liquid B:Black liquid

## 3. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT:..... Both>230F Closed Cup  
FLAMMABLE LIMITS - LEL:..... N/D  
FLAMMABLE LIMITS - UEL:..... N/D  
AUTOIGNITION TEMPERATURE:.... N/D  
EXTINGUISHING MEDIA:  
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:  
No unusual fire or explosion hazards are anticipated.  
NFPA-HAZARD-CODES: HEALTH 2 FIRE 1 REACTIVITY 0  
UNUSUAL REACTION HAZARD: none

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#### 4. REACTIVITY DATA

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STABILITY: Stable  
INCOMPATIBILITY - MATERIALS TO AVOID:  
Not applicable.  
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:**

PART A or PART B: Observe precautionary information from other sections. Use absorbent material as needed and sweep up. Mixture of PART A and PART B: Observe precautionary information from other sections. Clean up spill.

**RECOMMENDED DISPOSAL:**

PART A or PART B: Dispose by incineration or send fully adsorbed material for landfill in accordance with local and state regulations. Mixture of PART A and PART B: Fully cured material may be landfilled in accordance with local and state regulations.

**ENVIRONMENTAL DATA:**

NONE

**SARA HAZARD CLASS:**

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

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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:**

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:**

Remove person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, get immediate medical attention.

**IF SWALLOWED:**

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

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#### 7. PRECAUTIONARY INFORMATION

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**EYE PROTECTION:**

Avoid eye contact. Wear safety glasses with side shields.

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7. PRECAUTIONARY INFORMATION (continued)

**SKIN PROTECTION:**

Avoid skin contact. Wear appropriate gloves when handling this material..

**VENTILATION PROTECTION:**

Provide sufficient ventilation to maintain emissions below recommended exposure limits. If exhaust ventilation is not adequate, use appropriate respiratory protection.

**RESPIRATORY PROTECTION:**

Avoid inhalation of vapors. 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:**

Keep out of the reach of children.

**FIRE AND EXPLOSION AVOIDANCE:**

Not applicable.

INGREDIENTS	EXPOSURE LIMITS		TYPE	AUTH	SKIN*
	VALUE	UNIT			
PART A: BISPHENOL A-EPICHLOROHYDRIN					
COPOLYMER .....	NONE	NONE	NONE	NONE	
VINYLCYCLOHEXENE DIOXIDE .....	10	ppm	TWA	ACGIH	Y
VINYLCYCLOHEXENE DIOXIDE .....	57	mg/m3	TWA	ACGIH	Y
VINYLCYCLOHEXENE DIOXIDE .....	10	ppm	TWA	OSHA	Y
VINYLCYCLOHEXENE DIOXIDE .....	60	mg/m3	TWA	OSHA	Y
PART B: POLYOXYPROPYLENE POLYOL .....	NONE	NONE	NONE	NONE	
CASTOR OIL .....	NONE	NONE	NONE	NONE	
POLYSTYRENE .....	NONE	NONE	NONE	NONE	
PETROLEUM DISTILLATE .....	400	ppm	TWA	OSHA	
PETROLEUM DISTILLATE .....	1600	mg/m3	TWA	OSHA	
BIS(TRIFLUOROMETHYL SULFONYL)					
METHANE .....	NONE	NONE	NONE	NONE	
CARBON BLACK .....	3.5	mg/m3	TWA	ACGIH	
CARBON BLACK .....	3.5	mg/m3	TWA	OSHA	

\* 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.

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7. PRECAUTIONARY INFORMATION (CONTINUED)

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SOURCE OF EXPOSURE LIMIT DATA:

- ACGIH: American Conference of Governmental Industrial Hygienists
- OSHA: Occupational Safety and Health Administration
- NONE: None Established

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8. HEALTH HAZARD DATA

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EYE CONTACT:

Moderate Eye Irritation: signs/symptoms can include redness, swelling, pain, tearing, and hazy vision.

SKIN CONTACT:

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

Moderate Skin Irritation (after prolonged or repeated contact): signs/symptoms can include redness, swelling, itching, and dryness.

May be absorbed through the skin.

INHALATION:

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

IF SWALLOWED:

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

CANCER:

VINYLCYCLOHEXENE DIOXIDE (106-87-6) is a potential cancer hazard causing skin tumors by the topical route of exposure in laboratory animal studies (ACGIH suspected human carcinogen A2, Calif. Proposition 65).

CARBON BLACK (BENZENE SOLVENT EXTRACTS) (1333-86-4) is a potential cancer hazard causing stomach and skin cancer by the dietary route of exposure in laboratory animal studies (IARC possible human carcinogen 2B, Calif. Proposition 65).

MINERAL OIL (AROMATIC OILS) (8002-05-9) studies linking skin, scrotum and other organ cancers with exposure were undertaken at the time before solvent refined oils were in common use. Three more recent studies have shown no increase cancer risk among people exposed to mineral oil mists (IARC human carcinogen 1 for untreated and mildly treated and IARC not classifiable as to carcinogenicity to humans 3).

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SECTION CHANGE DATES

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HEADING	SECTION CHANGED SINCE MAY 1, 1992 ISSUE
PRECAUT. INFO.	SECTION CHANGED SINCE JULY 29, 1992 ISSUE

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

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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.