

General Offices/3M
 3M Center
 St. Paul, Minnesota 55144-1000
 (612) 733-1110

ONTARIO SUPPLY CORP.
 100 NORTH MOHAWK ST.
 P.O. BOX 437
 COHOES, NEW YORK 12047

02-51

000221

MATERIAL SAFETY
 DATA SHEET



DIVISION: ELECTRICAL PRODUCTS DIVISION
 TRADE NAME: SCOTCHCAST BRAND 4 ELECTRICAL INSULATING RESIN
 3M I.D. NUMBER: 80-7000-0401-5 80-7000-0402-3 80-7000-0403-1
 80-7000-0406-4
 ISSUED: AUGUST 28, 1986
 SUPERSEDES: OCTOBER 18, 1985
 DOCUMENT: 10-2577-4

1. INGREDIENTS	C.A.S. NO.	PERCENT	EXPOSURE LIMITS	
PART A: LIQUID EPOXY RESIN (DGEBA-Mol.Wt.<700)	NONE	100.0	NONE	5
PART B: AMINE ADDUCTS	NONE	25.0- 35.0	NONE	5
NONYL PHENOL	25154-52-3	35.0- 45.0	NONE	5
2,4,6-TRIS(DIMETHYLAMINO METHYL)PHENOL	90-72-2	1.0- 5.0	5ppm	4
NON-REACTIVE EXTENDERS	NONE	13.0- 15.0	NONE	5
CARBON BLACK	1333-86-4	0.1- 1.0	3.5mg/cu.m.	1
AROMATIC HYDROCARBON	70955-17-8	4.0- 5.0	NONE	5

SOURCE OF EXPOSURE LIMIT DATA

1. ACGIH THRESHOLD LIMIT VALUES
2. FEDERAL OSHA PERMISSIBLE EXPOSURE LIMIT
3. 3M EXPOSURE GUIDELINES
4. CHEMICAL MANUFACTURER RECOMMENDED GUIDELINES
5. NONE ESTABLISHED

ABBREVIATIONS

N/D - NOT DETERMINED
 N/A - NOT APPLICABLE

2. PHYSICAL DATA

BOILING POINT:	N/A	SOLUBILITY IN WATER:	Nil
VAPOR PRESSURE:	N/A	SP. GRAVITY (WATER=1):	A:1.14 B:0.98
VAPOR DENSITY (AIR=1):	N/A	PERCENT VOLATILE:	0
EVAPORATION RATE (=1):	N/A	VISCOSITY:	A:5000cps B:3500cps
APPEARANCE AND ODOR:	A:Clear amber liquid B:Black liquid, amine odor.		pH: N/A

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3. FIRE AND EXPLOSION HAZARD DATA
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FLASH POINT (Closed Cup): Both>230F
FLAMMABLE LIMITS - LEL: N/D UEL: N/D

EXTINGUISHING MEDIA:

Carbon Dioxide, Foam or Dry Chemical

SPECIAL FIRE FIGHTING PROCEDURES:

Firefighters should be equipped with self-contained breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

NONE

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4. REACTIVITY DATA
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STABILITY: STABLE

INCOMPATIBILITY - MATERIALS TO AVOID:

NONE

HAZARDOUS POLYMERIZATION: MAY NOT OCCUR

HAZARDOUS DECOMPOSITION PRODUCTS:

May include Carbon Monoxide, Carbon Dioxide and Oxides of Nitrogen.

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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

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6. SUGGESTED FIRST AID

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EYE CONTACT:

Immediately flush eyes with large amounts of water and continue for at least ten minutes. Call a physician.

SKIN CONTACT:

Wash affected area thoroughly with soap and water.

INHALATION:

Provide fresh air; if coughing, wheezing or shortness of breath develops, call a physician.

IF SWALLOWED:

Give one to two glasses of water and immediately induce vomiting. Call a physician.

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7. PRECAUTIONARY INFORMATION

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Do not get in eyes; use of chemical safety glasses is recommended. Avoid skin contact. Avoid prolonged breathing of vapors. Use only in well ventilated areas with sufficient air movement to maintain airborne vapor concentration levels at recognized health and safety levels. Launder contaminated clothing before re-use.

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8. HEALTH HAZARD DATA

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EYE CONTACT: Irritating to eyes on direct contact with mixture of PART A and PART B or either part separately. (Mixture of PART A and PART B is irritating to eyes of the albino rabbit.)

SKIN CONTACT: Irritating to skin on direct contact. (Mixture of PART A and PART B: Irritating to skin of albino rabbit after 24 hour occluded contact.) May cause skin sensitization in susceptible individuals. (PART A and Mixture of PART A and PART B gave positive response to 8 of 10 guinea pigs in Magnusson-Kligman guinea pig maximization/sensitization test; PART B alone gave no positive responses.) Aromatic hydrocarbon oils similar to the aromatic hydrocarbon oil in this product have been found to produce skin cancer in animals. Compounds naturally present in the aromatic hydrocarbon oil are known to cause cancer in animals and this oil should be considered a potential human skin carcinogen.

INHALATION: Vapors may be irritating to respiratory system. Carbon black has an OSHA permissible exposure limit of 3.5 milligrams per cubic meter TWA. The International Agency for Research on Cancer, IARC, states the available data on carbon blacks are inadequate to permit an evaluation of their carcinogenicity to experimental animals. There is sufficient evidence that benzene extracts of most of the carbon blacks tested are carcinogenic to experimental animals. The available epidemiological data provide inadequate evidence to evaluate the carcinogenicity to humans of carbon blacks. Exposure to carbon black is not expected in use and handling of this product.

INGESTION: PART A is partially non-toxic orally; acute oral LD50 in albino rat greater than 5000 mg/kg body weight. PART B is slightly toxic orally, acute oral LD50 in albino rat is between 2500 mg and 5000 mg/kg body weight.

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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 product under normal conditions. Any use of the product which is not in conformance with this Data Sheet or which involves using the product in combination with any other product or any other process is the responsibility of the user.

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