



3M General Offices
3M Center
St. Paul, MN 55144-1000
1-800-364-3577 or (651) 737-6501 (24 hours)

3/28/2006 4:30:56 AM

Material Safety Data Sheet

Purchase Order #: 484045
Customer Number: RBZ6872

MSDS COORDINATOR
RAUHORN ELECTRIC INC
17171 23 MILE RD
MACOMB, MI 48042-4100
United States of America

Dear MSDS COORDINATOR

Enclosed are Material Safety Data Sheets (MSDSs) for products that your company recently purchased from 3M. Your purchase order number is listed above your customer number in the address block above.

Our objective in sending this information is to help you protect the health and safety of your personnel and to comply with OSHA Hazard Communication Standard and Title III of the Superfund Amendments and Reauthorization Act of 1986. The OSHA standard requires that all personnel who may be exposed to hazardous material must be provided by their employer with accurate information on the potential hazards of the materials and trained in proper work practices to minimize any risk.

Please forward the attached MSDS(s) to the individual in your organization responsible for implementing these regulations.

If you are a distributor and resell this product, OSHA and EPA require that you transmit this MSDS information to your customers at the time of first shipment or whenever you receive revised MSDSs from 3M.

3M MSDSs are available to customers on the CD-ROM at a low annual subscription cost. Please call 1-800-944-2345 to take advantage of this offer. The customer number, which is located in the top right hand corner of this letter, confirms your eligibility. 3M MSDSs are also available at www.mmm.com.

3M is committed to meeting our customer requirements, and asks that you contact your 3M customer service or sales representative if you have any questions or problems in this regard.

If you do not know whom to contact, please call the 3M Product Information Center at 1-800-364-3577.

Sincerely,

E. Young
MSDS Program Manager
Corporate Product Responsibility

Enclosure(s)

MATERIAL SAFETY DATA SHEET 3M
3M Center
St. Paul, Minnesota
55144-1000
1-800-364-3577 or (651) 737-6501 (24 hours)

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DIVISION: ELECTRICAL PRODUCTS DIVISION

TRADE NAME:

90-B1 WYE RESIN SPLICING KIT

ID NUMBER/U.P.C.:

80-6109-8161-7 00-54007-25115-6 80-6112-1843-1 - - -

ISSUED: August 09, 2001

SUPERSEDES: March 11, 1998

DOCUMENT: 08-4956-2

This product is a kit or a multipart product which consists of multiple, independently packaged components. An MSDS for each of these components is included. Please do not separate the component MSDSs from this cover page. The document numbers of the MSDSs for components of this product are:

08-4935-6

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

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MATERIAL SAFETY DATA SHEET 3M
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DIVISION: ELECTRICAL PRODUCTS DIVISION

TRADE NAME:

SCOTCHCAST BRAND RESIN #4 (PART A & B)

ID NUMBER/U.P.C.:

78-8111-0945-9	-	-	-	78-8111-0947-5	-	-	-
78-8111-0948-3	-	-	-	78-8111-0949-1	-	-	-
78-8111-0950-9	-	-	-	78-8111-0951-7	-	-	-
80-6109-7349-9	00-54007-43261-6			80-6109-8166-6	00-54007-43165-7		
80-6109-8167-4	00-54007-43166-4			80-6109-8168-2	00-54007-43167-1		
80-6109-8169-0	00-54007-43168-8			80-6109-8170-8	00-54007-43169-5		
80-6109-8171-6	00-54007-43170-1			80-6109-8241-7	00-54007-04206-8		
80-6109-8242-5	00-54007-04207-5			80-6112-1861-3	00-55128-53551-4		
80-6112-1862-1	00-55128-53552-1			80-6112-1863-9	-	-	-
80-6112-1864-7	-	-	-	80-6112-1866-2	-	-	-
80-6112-1867-0	-	-	-	80-6112-1868-8	-	-	-

ISSUED: August 14, 2001

SUPERSEDES: April 09, 2001

DOCUMENT: 08-4935-6

1. INGREDIENT	C.A.S. NO.	PERCENT
PART A: BISPHENOL A-EPICHLOROHYDRIN		
COPOLYMER.....	25068-38-6	100.0
PART B: NONYLPHENOL.....	25154-52-3	35 - 45
N-AMINOETHYLPIPERAZINE.....	140-31-8	12 - 18
HEAVY NAPHTHENIC DISTILLATE SOLVENT		
PETROLEUM EXTRACTS.....	64742-11-6	12 - 17
FATTY ACIDS, TALL-OIL, REACTION		
PRODUCTS WITH TRIETHYLENETETRAMINE....	68919-79-9	7 - 15
POLYAMINE/EPOXY ADDUCT.....	220827-64-5	5 - 10
AMINE/EPOXY ADDUCT.....	70776-37-3	3 - 8
AROMATIC HYDROCARBONS, C12-20.....	70955-17-8	3 - 7
TRIS (2,4,6-DIMETHYLAMINOMONOMETHYL) PHENOL.....		
	90-72-2	1 - 5
TRIETHYLENETETRAMINE.....	112-24-3	0.1 - 1
DIETHYLENETRIAMINE.....	111-40-0	0.1 - 0.5
CARBON BLACK.....	1333-86-4	0.1 - 0.5

The components of this product are in compliance with the chemical
 notification requirements of TSCA.

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

1. INGREDIENT	C.A.S. NO.	PERCENT
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2. PHYSICAL DATA

BOILING POINT:..... > 200 F
VAPOR PRESSURE:..... N/D
VAPOR DENSITY:..... N/D
EVAPORATION RATE:..... N/D
SOLUBILITY IN WATER:..... neglig.
SPECIFIC GRAVITY:..... A:1.14 B:0.98
PERCENT VOLATILE:..... 3 - 5 %
pH:..... N/A
VISCOSITY:..... A:5000cps B:3500cps
MELTING POINT:..... N/D

APPEARANCE AND ODOR:

Not applicable, LIQUID PARTS 'A' AND 'B' IN 2-COMPARTMENT BA, A:
CLEAR AMBER LIQUID B: BLACK LIQUID, AMINE ODOR

3. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT:..... Both A and B >230 F Closed Cup
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 may not effectively extinguish fire; however, it should be used to keep fire-exposed containers and surfaces cool and prevent explosive rupture. Water may be used to blanket the fire.

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

OSHA FIRE HAZARD CLASS: Class IIIB Combustible Liquid

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4. REACTIVITY DATA

STABILITY: Stable

INCOMPATIBILITY - MATERIALS/CONDITIONS TO AVOID:

Strong Acids, Strong Bases, Strong Oxidizing Agents. None known.

HAZARDOUS POLYMERIZATION: Hazardous polymerization will not occur.

HAZARDOUS DECOMPOSITION PRODUCTS:

Carbon Monoxide and Carbon Dioxide, Oxides of Nitrogen, Aldehydes, Hydrocarbons, Amine Compounds, Toxic Vapors, Gases or Particulates, Irritant Vapors or Gases.

5. ENVIRONMENTAL INFORMATION

SPILL RESPONSE:

Observe precautions from other sections. Ventilate area. Contain spill. Cover with absorbent material. Collect spilled material. Clean up residue with an appropriate organic solvent. Read and follow safety precautions on the solvent label and MSDS. Place in a closed container.

RECOMMENDED DISPOSAL:

Incinerate in an industrial or commercial facility in the presence of a combustible material.

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.

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

6. SUGGESTED FIRST AID (continued)

SKIN CONTACT:

Immediately flush skin with large amounts of water for at least 15 minutes in a chemical safety shower while removing contaminated clothing and shoes. Get immediate medical attention. Wash contaminated clothing before reuse.

INHALATION:

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

IF SWALLOWED:

If swallowed, do NOT induce vomiting. Give victim two glasses of water. Call a physician immediately. Never give anything by mouth to an unconscious person.

7. PRECAUTIONARY INFORMATION

EYE PROTECTION:

Avoid eye contact. Wear vented goggles. 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: nitrile rubber

Wear impervious protective clothing as necessary to prevent skin contact when handling.

RECOMMENDED VENTILATION:

Use with appropriate local exhaust ventilation. Provide appropriate local exhaust ventilation on open containers. Use in a well-ventilated area. If exhaust ventilation is not adequate, use appropriate respiratory protection.

RESPIRATORY PROTECTION:

Avoid prolonged breathing of vapors.

PREVENTION OF ACCIDENTAL INGESTION:

Do not ingest.

RECOMMENDED STORAGE:

Store away from heat. Keep container closed when not in use. Keep out of the reach of children.

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 7. PRECAUTIONARY INFORMATION (continued)

FIRE AND EXPLOSION AVOIDANCE:

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

OTHER PRECAUTIONARY INFORMATION:

For industrial or professional use only. For industrial use only.
 Not intended for use as a medical device or drug.

HMS HAZARD RATINGS: HEALTH: 2 FLAMMABILITY: 1 REACTIVITY: 0
 PERSONAL PROTECTION: B

EXPOSURE LIMITS

INGREDIENT	VALUE	UNIT	TYPE	AUTH	SKIN*
PART A: BISPHENOL A-					
EPICHLOROHYDRIN COPOLYMER.....	NONE	NONE	NONE	NONE	
PART B: NONYLPHENOL.....	NONE	NONE	NONE	NONE	
N-AMINOETHYLPIPERAZINE.....	NONE	NONE	NONE	NONE	
HEAVY NAPHTHENIC DISTILLATE					
SOLVENT PETROLEUM EXTRACTS.....	NONE	NONE	NONE	NONE	
FATTY ACIDS, TALL-OIL, REACTION					
PRODUCTS WITH TRIETHYLENETETRAMINE.	NONE	NONE	NONE	NONE	
POLYAMINE/EPOXY ADDUCT.....	NONE	NONE	NONE	NONE	
AMINE/EPOXY ADDUCT.....	NONE	NONE	NONE	NONE	
AROMATIC HYDROCARBONS, C12-20.....	NONE	NONE	NONE	NONE	
TRIS (2,4,6-					
DIMETHYLAMINOMONOMETHYL) PHENOL.....	5	PPM	TWA	CMRG	
TRIETHYLENETETRAMINE.....	NONE	NONE	NONE	NONE	
DIETHYLENETRIAMINE.....	1	PPM	TWA	ACGIH	Y
DIETHYLENETRIAMINE.....	1	PPM	TWA	OSHA	Y
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

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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:

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

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

May be absorbed through the skin and produce effects similiar to those caused by inhalation and/or ingestion.

INHALATION:

Allergic Respiratory Reaction: signs/symptoms can include difficulty breathing, wheezing, tightness of chest, and respiratory failure.

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

WHILE THE FOLLOWING EFFECTS ARE ASSOCIATED WITH ONE OR MORE OF THE INDIVIDUAL INGREDIENTS IN THIS PRODUCT AND ARE REQUIRED TO BE INCLUDED ON THE MSDS BY THE U.S. OSHA HAZARD COMMUNICATION STANDARD, THEY ARE NOT EXPECTED EFFECTS DURING FORESEEABLE USE OF THIS PRODUCT.

Nervous System Effects: signs/symptoms can include emotional changes, lack of coordination, tremors and sensory loss.

Lung Damage: signs/symptoms can include coughing, difficulty breathing, wheezing, tightness in chest, congestion, and coughing up of blood.

IF SWALLOWED:

Damage to Gastrointestinal Tissues: signs/symptoms can include pain, vomiting, nausea, abdominal tenderness, burns of mouth, difficulty swallowing, blood in vomitus, blood in feces, and ulceration.

WHILE THE FOLLOWING EFFECTS ARE ASSOCIATED WITH ONE OR MORE OF THE INDIVIDUAL INGREDIENTS IN THIS PRODUCT AND ARE REQUIRED TO BE INCLUDED ON THE MSDS BY THE U.S. OSHA HAZARD COMMUNICATION STANDARD, THEY ARE NOT EXPECTED EFFECTS DURING FORESEEABLE USE OF THIS PRODUCT.

Nervous System Effects: signs/symptoms can include emotional changes, lack of coordination, tremors and sensory loss.

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

8. HEALTH HAZARD DATA (continued)

CANCER:

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

WARNING: Contains a chemical which can cause cancer. (70955-17-8)
(Kenrich Petrochemicals, Inc.)

REPRODUCTIVE/DEVELOPMENTAL TOXINS:

TRIETHYLENETETRAMINE (112-24-3) is a potential reproductive hazard causing teratogenic effects by the oral route of exposure. Triethylenetetramine also had a pronounced effect on maternal and fetal copper and zinc tissue concentrations. The teratogenicity may be due to the effects of Triethylenetetramine on copper and zinc metabolism.

N-AMINOETHYLPIPERAZINE (140-31-8) is a potential reproductive hazard causing male reproductive effects by the oral route of exposure in laboratory animal studies.

SECTION CHANGE DATES

HEADING	SECTION CHANGED SINCE April 09, 2001	ISSUE
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