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## Safety Data Sheet

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### SECTION 1: Identification

#### 1.1. Product identifier

3M™ Scotchcast™ Electrical Insulating Resin 2104, Part A

#### Product Identification Numbers

80-6116-1275-7

7100213470

#### 1.2. Recommended use and restrictions on use

##### Recommended use

Electrical, Part A of two part electrical resin

#### 1.3. Supplier's details

**MANUFACTURER:** 3M  
**DIVISION:** Electrical Markets Division  
**ADDRESS:** 3M Center, St. Paul, MN 55144-1000, USA  
**Telephone:** 1-888-3M HELPS (1-888-364-3577)

#### 1.4. Emergency telephone number

1-800-364-3577 or (651) 737-6501 (24 hours)

### SECTION 2: Hazard identification

#### 2.1. Hazard classification

Skin Corrosion/Irritation: Category 2.

Serious Eye Damage/Irritation: Category 2A.

Respiratory Sensitizer: Category 1.

Skin Sensitizer: Category 1.

Specific Target Organ Toxicity (repeated exposure): Category 1.

Specific Target Organ Toxicity (single exposure): Category 3.

#### 2.2. Label elements

##### Signal word

Danger

##### Symbols

Exclamation mark | Health Hazard |

**Pictograms****Hazard Statements**

Causes skin irritation.

Causes serious eye irritation.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause an allergic skin reaction.

May cause respiratory irritation.

Causes damage to organs through prolonged or repeated exposure: respiratory system.

**Precautionary statements****Prevention:**

Do not breathe vapors.

Wash exposed skin thoroughly after handling.

Do not eat, drink or smoke when using this product.

Use only outdoors or in a well-ventilated area.

Contaminated work clothing should not be allowed out of the workplace.

Wear protective gloves and eye protection.

In case of inadequate ventilation wear respiratory protection.

**Response:**

IF ON SKIN: Wash with plenty of soap and water.

IF INHALED: Call a POISON CENTER or doctor if you feel unwell.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

Get medical attention if you feel unwell.

If eye irritation persists or if skin irritation or rash occurs: Get medical attention.

If experiencing respiratory symptoms: Call a POISON CENTER or doctor.

Take off contaminated clothing and wash it before reuse.

**Storage:**

Store in a well-ventilated place. Keep container tightly closed.

Store locked up.

**Disposal:**

Dispose of contents and container in accordance with applicable local, regional, national, and international regulations.

**Supplemental Information:**

Persons previously sensitized to isocyanates may develop a cross-sensitization reaction to other isocyanates.

19% of the mixture consists of ingredients of unknown acute oral toxicity.

**SECTION 3: Composition/information on ingredients**

| Ingredient                              | C.A.S. No. | % by Wt |
|-----------------------------------------|------------|---------|
| PHTHALIC ACID, DI-C11-14-BRANCHED ALKYL | 68515-47-9 | 15 - 40 |

|                                                                                                           |            |                        |
|-----------------------------------------------------------------------------------------------------------|------------|------------------------|
| ESTERS, C13-RICH                                                                                          |            |                        |
| ISOCYANIC ACID,<br>POLYMETHYLENEPOLYPHENYLENE ESTER,<br>POLYMERS WITH HYDROXY-TERMINATED<br>POLYBUTADIENE | 68442-03-5 | 10 - 30                |
| P,P'-Methylenebis(phenyl isocyanate)                                                                      | 101-68-8   | 10 - 30 Trade Secret * |
| POLYMETHYLENE POLYPHENYLENE<br>ISOCYANATE                                                                 | 9016-87-9  | 10 - 30 Trade Secret * |
| 1,1'-METHYLENEBIS(ISOCYANATOBENZENE)                                                                      | 26447-40-5 | 5 - 10 Trade Secret *  |
| C.I. SOLVENT YELLOW 3                                                                                     | 97-56-3    | < 0.02                 |

\*The specific chemical identity and/or exact percentage (concentration) of this composition has been withheld as a trade secret.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### Inhalation:

Remove person to fresh air. If you feel unwell, get medical attention.

#### Skin Contact:

Immediately wash with soap and water. Remove contaminated clothing and wash before reuse. If signs/symptoms develop, get medical attention.

#### Eye Contact:

Immediately flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. Get medical attention.

#### If Swallowed:

Rinse mouth. If you feel unwell, get medical attention.

### 4.2. Most important symptoms and effects, both acute and delayed

Irritating to the respiratory tract (coughing, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain). Allergic respiratory reaction (difficulty breathing, wheezing, cough, and tightness of chest). Allergic skin reaction (redness, swelling, blistering, and itching). Target organ effects following prolonged or repeated exposure. See Section 11 for additional details.

### 4.3. Indication of any immediate medical attention and special treatment required

Not applicable

## SECTION 5: Fire-fighting measures

### 5.1. Suitable extinguishing media

In case of fire: Use a fire fighting agent suitable for ordinary combustible material such as water or foam to extinguish.

### 5.2. Special hazards arising from the substance or mixture

None inherent in this product.

### Hazardous Decomposition or By-Products

#### Substance

Isocyanates  
Carbon monoxide  
Carbon dioxide  
Hydrogen Cyanide  
Oxides of Nitrogen

#### Condition

During Combustion  
During Combustion  
During Combustion  
During Combustion  
During Combustion

### 5.3. Special protective actions for fire-fighters

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.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Evacuate area. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. Use personal protective equipment based on the results of an exposure assessment. Refer to Section 8 for PPE recommendations. If anticipated exposure resulting from an accidental release exceeds the protective capabilities of the PPE listed in Section 8, or are unknown, select PPE that offers an appropriate level of protection. Consider the physical and chemical hazards of the material when doing so. Examples of PPE ensembles for emergency response could include wearing bunker gear for a release of flammable material; wearing chemical protective clothing if the spilled material is a corrosive, a sensitizer, a significant dermal irritant, or can be absorbed through the skin; or donning a positive pressure supplied-air respirator for chemicals with inhalation hazards. For information regarding physical and health hazards, refer to sections 2 and 11 of the SDS.

### 6.2. Environmental precautions

Avoid release to the environment.

### 6.3. Methods and material for containment and cleaning up

Contain spill. Pour isocyanate decontaminant solution (90% water, 8% concentrated ammonia, 2% detergent) on spill and allow to react for 10 minutes. Or pour water on spill and allow to react for more than 30 minutes. Cover with absorbent material. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Remember, adding an absorbent material does not remove a physical, health, or environmental hazard. Collect as much of the spilled material as possible. Place in a container approved for transportation by appropriate authorities, but do not seal the container for 48 hours to avoid pressure build-up. Clean up residue with an appropriate solvent selected by a qualified and authorized person. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and SDS. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

For industrial/occupational use only. Not for consumer sale or use. Do not use in a confined area with minimal air exchange. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wash contaminated clothing before reuse.

### 7.2. Conditions for safe storage including any incompatibilities

Store in a well-ventilated place. Keep container tightly closed to prevent contamination with water or air. If contamination is suspected, do not reseal container. Store away from amines.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limits

If a component is disclosed in section 3 but does not appear in the table below, an occupational exposure limit is not available for the component.

| Ingredient                           | C.A.S. No. | Agency | Limit type               | Additional Comments |
|--------------------------------------|------------|--------|--------------------------|---------------------|
| Methylene bisphenyl isocyanate (MDI) | 101-68-8   | ACGIH  | TWA:0.005 ppm            |                     |
| P,P'-Methylenebis(phenyl             | 101-68-8   | OSHA   | CEIL:0.2 mg/m3(0.02 ppm) |                     |

|                                      |            |       |               |  |
|--------------------------------------|------------|-------|---------------|--|
| isocyanate)                          |            |       |               |  |
| Methylene bisphenyl isocyanate (MDI) | 26447-40-5 | ACGIH | TWA:0.005 ppm |  |
| Methylene bisphenyl isocyanate (MDI) | 9016-87-9  | ACGIH | TWA:0.005 ppm |  |

ACGIH : American Conference of Governmental Industrial Hygienists

AIHA : American Industrial Hygiene Association

CMRG : Chemical Manufacturer's Recommended Guidelines

OSHA : United States Department of Labor - Occupational Safety and Health Administration

TWA: Time-Weighted-Average

STEL: Short Term Exposure Limit

CEIL: Ceiling

## 8.2. Exposure controls

### 8.2.1. Engineering controls

Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/vapors/spray. If ventilation is not adequate, use respiratory protection equipment.

### 8.2.2. Personal protective equipment (PPE)

#### Eye/face protection

Select and use eye/face protection to prevent contact based on the results of an exposure assessment. The following eye/face protection(s) are recommended:

Safety Glasses with side shields

Indirect Vented Goggles

#### Skin/hand protection

Select and use gloves and/or protective clothing approved to relevant local standards to prevent skin contact based on the results of an exposure assessment. Selection should be based on use factors such as exposure levels, concentration of the substance or mixture, frequency and duration, physical challenges such as temperature extremes, and other use conditions. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible gloves/protective clothing.

For prolonged or repeated contact, gloves made from the following material(s) are recommended (breakthrough times are >4 hours): Butyl Rubber, Natural Rubber, Neoprene, Nitrile Rubber, Polyvinyl Chloride

Any glove recommended for prolonged/repeated contact is also suitable for short-term/splash contact.

If this product is used in a manner that presents a higher potential for exposure (e.g., spraying, high splash potential, etc.), then use of a protective apron may be necessary. See recommended glove material(s) for determining appropriate apron material(s). If a glove material is not available as an apron, polymer laminate is a suitable option.

#### Respiratory protection

An exposure assessment may be needed to decide if a respirator is required. If a respirator is needed, use respirators as part of a full respiratory protection program. Based on the results of the exposure assessment, select from the following respirator type(s) to reduce inhalation exposure:

Half facepiece or full facepiece air-purifying respirator suitable for organic vapors and particulates

Half facepiece or full facepiece supplied-air respirator

For questions about suitability for a specific application, consult with your respirator manufacturer.

## SECTION 9: Physical and chemical properties

**9.1. Information on basic physical and chemical properties**

|                                                   |                                  |
|---------------------------------------------------|----------------------------------|
| Physical state                                    | Liquid                           |
| Specific Physical Form:                           | Resin                            |
| Color                                             | Dark Green                       |
| Odor                                              | Moderate Isocyanate              |
| Odor threshold                                    | No Data Available                |
| pH                                                | No Data Available                |
| Melting point/Freezing point                      | No Data Available                |
| Boiling point/Initial boiling point/Boiling range | >= 110 °C                        |
| Flash Point                                       | 110 °C [Test Method: Closed Cup] |
| Evaporation rate                                  | No Data Available                |
| Flammability                                      | Not Applicable                   |
| Flammable Limits(LEL)                             | No Data Available                |
| Flammable Limits(UEL)                             | No Data Available                |
| Vapor Pressure                                    | No Data Available                |
| Relative Vapor Density                            | No Data Available                |
| Density                                           | 1.04 g/ml                        |
| Relative Density                                  | 1.04 [Ref Std: WATER=1]          |
| Water solubility                                  | Slight (less than 10%)           |
| Solubility- non-water                             | No Data Available                |
| Partition coefficient: n-octanol/ water           | No Data Available                |
| Autoignition temperature                          | No Data Available                |
| Decomposition temperature                         | No Data Available                |
| Kinematic Viscosity                               | 1,635 mm <sup>2</sup> /sec       |
| Volatile Organic Compounds                        | No Data Available                |
| Percent volatile as Text                          | Negligible                       |
| VOC Less H <sub>2</sub> O & Exempt Solvents       | No Data Available                |
| Average particle size                             | No Data Available                |
| Bulk density                                      | No Data Available                |
| Molecular weight                                  | No Data Available                |
| Softening point                                   | No Data Available                |

|                          |                |
|--------------------------|----------------|
| Particle Characteristics | Not Applicable |
|--------------------------|----------------|

**SECTION 10: Stability and reactivity****10.1. Reactivity**

This material may be reactive with certain agents under certain conditions - see the remaining headings in this section.

**10.2. Chemical stability**

Stable.

**10.3. Possibility of hazardous reactions**

Hazardous polymerization will not occur.

**10.4. Conditions to avoid**

Not determined

**10.5. Incompatible materials**

Amines

Alcohols

Water

Not Applicable

#### 10.6. Hazardous decomposition products

| <u>Substance</u> | <u>Condition</u> |
|------------------|------------------|
| None known.      |                  |

Refer to section 5.2 for hazardous decomposition products during combustion.

## SECTION 11: Toxicological information

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labeling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

### 11.1. Information on Toxicological effects

#### Signs and Symptoms of Exposure

Based on test data and/or information on the components, this material may produce the following health effects:

##### Inhalation:

Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

Allergic Respiratory Reaction: Signs/symptoms may include difficulty breathing, wheezing, cough, and tightness of chest.

May cause additional health effects (see below).

##### Skin Contact:

Skin Irritation: Signs/symptoms may include localized redness, swelling, itching, dryness, cracking, blistering, and pain.

Allergic Skin Reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

##### Eye Contact:

Severe Eye Irritation: Signs/symptoms may include significant redness, swelling, pain, tearing, cloudy appearance of the cornea, and impaired vision.

##### Ingestion:

Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

#### Additional Health Effects:

##### Prolonged or repeated exposure may cause target organ effects:

Respiratory Effects: Signs/symptoms may include cough, shortness of breath, chest tightness, wheezing, increased heart rate, bluish colored skin (cyanosis), sputum production, changes in lung function tests, and/or respiratory failure.

#### Carcinogenicity:

| <u>Ingredient</u>     | <u>CAS No.</u> | <u>Class Description</u>      | <u>Regulation</u>                           |
|-----------------------|----------------|-------------------------------|---------------------------------------------|
| o-Aminoazotoluene     | 97-56-3        | Anticipated human carcinogen  | National Toxicology Program Carcinogens     |
| ortho-Aminoazotoluene | 97-56-3        | Grp. 2B: Possible human carc. | International Agency for Research on Cancer |

**Additional Information:**

Persons previously sensitized to isocyanates may develop a cross-sensitization reaction to other isocyanates.

**Toxicological Data**

If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or the data are not sufficient for classification.

**Acute Toxicity**

| Name                                   | Route                          | Species | Value                                          |
|----------------------------------------|--------------------------------|---------|------------------------------------------------|
| Overall product                        | Inhalation-Vapor(4 hr)         |         | No data available; calculated ATE >50 mg/l     |
| Overall product                        | Ingestion                      |         | No data available; calculated ATE >5,000 mg/kg |
| POLYMETHYLENE POLYPHENYLENE ISOCYANATE | Dermal                         | Rabbit  | LD50 > 5,000 mg/kg                             |
| POLYMETHYLENE POLYPHENYLENE ISOCYANATE | Inhalation-Dust/Mist (4 hours) | Rat     | LC50 0.368 mg/l                                |
| POLYMETHYLENE POLYPHENYLENE ISOCYANATE | Ingestion                      | Rat     | LD50 31,600 mg/kg                              |
| P,P'-Methylenebis(phenyl isocyanate)   | Dermal                         | Rabbit  | LD50 > 5,000 mg/kg                             |
| P,P'-Methylenebis(phenyl isocyanate)   | Inhalation-Dust/Mist (4 hours) | Rat     | LC50 0.368 mg/l                                |
| P,P'-Methylenebis(phenyl isocyanate)   | Ingestion                      | Rat     | LD50 31,600 mg/kg                              |
| 1,1'-METHYLENEBIS(ISOCYANATOBENZENE)   | Dermal                         | Rabbit  | LD50 > 5,000 mg/kg                             |
| 1,1'-METHYLENEBIS(ISOCYANATOBENZENE)   | Inhalation-Dust/Mist (4 hours) | Rat     | LC50 0.368 mg/l                                |
| 1,1'-METHYLENEBIS(ISOCYANATOBENZENE)   | Ingestion                      | Rat     | LD50 31,600 mg/kg                              |
| C.I. SOLVENT YELLOW 3                  | Ingestion                      | Rat     | LD50 1,500 mg/kg                               |

ATE = acute toxicity estimate

**Skin Corrosion/Irritation**

| Name                                   | Species                 | Value    |
|----------------------------------------|-------------------------|----------|
| POLYMETHYLENE POLYPHENYLENE ISOCYANATE | official classification | Irritant |
| P,P'-Methylenebis(phenyl isocyanate)   | official classification | Irritant |
| 1,1'-METHYLENEBIS(ISOCYANATOBENZENE)   | official classification | Irritant |

**Serious Eye Damage/Irritation**

| Name                                   | Species                 | Value           |
|----------------------------------------|-------------------------|-----------------|
| POLYMETHYLENE POLYPHENYLENE ISOCYANATE | official classification | Severe irritant |
| P,P'-Methylenebis(phenyl isocyanate)   | official classification | Severe irritant |
| 1,1'-METHYLENEBIS(ISOCYANATOBENZENE)   | official classification | Severe irritant |

**Skin Sensitization**

| Name                                   | Species | Value       |
|----------------------------------------|---------|-------------|
| POLYMETHYLENE POLYPHENYLENE ISOCYANATE | Mouse   | Sensitizing |
| P,P'-Methylenebis(phenyl isocyanate)   | Mouse   | Sensitizing |
| 1,1'-METHYLENEBIS(ISOCYANATOBENZENE)   | Mouse   | Sensitizing |
| C.I. SOLVENT YELLOW 3                  | Human   | Sensitizing |

**Respiratory Sensitization**

| Name                                   | Species | Value       |
|----------------------------------------|---------|-------------|
| POLYMETHYLENE POLYPHENYLENE ISOCYANATE | Human   | Sensitizing |
| P,P'-Methylenebis(phenyl isocyanate)   | Human   | Sensitizing |
| 1,1'-METHYLENEBIS(ISOCYANATOBENZENE)   | Human   | Sensitizing |

**Germ Cell Mutagenicity**

| Name                                   | Route    | Value                                                                        |
|----------------------------------------|----------|------------------------------------------------------------------------------|
| POLYMETHYLENE POLYPHENYLENE ISOCYANATE | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| P,P'-Methylenebis(phenyl isocyanate)   | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| 1,1'-METHYLENEBIS(ISOCYANATOBENZENE)   | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| C.I. SOLVENT YELLOW 3                  | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| C.I. SOLVENT YELLOW 3                  | In vivo  | Mutagenic                                                                    |

**Carcinogenicity**

| Name                                   | Route      | Species                 | Value                                                                        |
|----------------------------------------|------------|-------------------------|------------------------------------------------------------------------------|
| POLYMETHYLENE POLYPHENYLENE ISOCYANATE | Inhalation | Rat                     | Some positive data exist, but the data are not sufficient for classification |
| P,P'-Methylenebis(phenyl isocyanate)   | Inhalation | Rat                     | Some positive data exist, but the data are not sufficient for classification |
| 1,1'-METHYLENEBIS(ISOCYANATOBENZENE)   | Inhalation | Rat                     | Some positive data exist, but the data are not sufficient for classification |
| C.I. SOLVENT YELLOW 3                  | Dermal     | Mouse                   | Carcinogenic                                                                 |
| C.I. SOLVENT YELLOW 3                  | Ingestion  | Multiple animal species | Carcinogenic                                                                 |

**Reproductive Toxicity****Reproductive and/or Developmental Effects**

| Name                                   | Route      | Value                          | Species | Test Result      | Exposure Duration    |
|----------------------------------------|------------|--------------------------------|---------|------------------|----------------------|
| POLYMETHYLENE POLYPHENYLENE ISOCYANATE | Inhalation | Not classified for development | Rat     | NOAEL 0.004 mg/l | during organogenesis |
| P,P'-Methylenebis(phenyl isocyanate)   | Inhalation | Not classified for development | Rat     | NOAEL 0.004 mg/l | during organogenesis |
| 1,1'-METHYLENEBIS(ISOCYANATOBENZENE)   | Inhalation | Not classified for development | Rat     | NOAEL 0.004 mg/l | during organogenesis |

**Target Organ(s)****Specific Target Organ Toxicity - single exposure**

| Name                                   | Route      | Target Organ(s)        | Value                            | Species                 | Test Result         | Exposure Duration |
|----------------------------------------|------------|------------------------|----------------------------------|-------------------------|---------------------|-------------------|
| POLYMETHYLENE POLYPHENYLENE ISOCYANATE | Inhalation | respiratory irritation | May cause respiratory irritation | official classification | NOAEL Not available |                   |
| P,P'-Methylenebis(phenyl isocyanate)   | Inhalation | respiratory irritation | May cause respiratory irritation | official classification | NOAEL Not available |                   |
| 1,1'-METHYLENEBIS(ISOCYANATOBENZENE)   | Inhalation | respiratory irritation | May cause respiratory irritation | official classification | NOAEL Not available |                   |

**Specific Target Organ Toxicity - repeated exposure**

| Name                                   | Route      | Target Organ(s)    | Value                                                          | Species | Test Result         | Exposure Duration |
|----------------------------------------|------------|--------------------|----------------------------------------------------------------|---------|---------------------|-------------------|
| POLYMETHYLENE POLYPHENYLENE ISOCYANATE | Inhalation | respiratory system | Causes damage to organs through prolonged or repeated exposure | Rat     | LOAEL<br>0.004 mg/l | 13 weeks          |
| P,P'-Methylenebis(phenyl isocyanate)   | Inhalation | respiratory system | Causes damage to organs through prolonged or repeated exposure | Rat     | LOAEL<br>0.004 mg/l | 13 weeks          |
| 1,1'-METHYLENEBIS(ISOCY ANATOBENZENE)  | Inhalation | respiratory system | Causes damage to organs through prolonged or repeated exposure | Rat     | LOAEL<br>0.004 mg/l | 13 weeks          |

**Aspiration Hazard**

For the component/components, either no data are currently available or the data are not sufficient for classification.

Please contact the address or phone number listed on the first page of the SDS for additional toxicological information on this material and/or its components.

**SECTION 12: Ecological information****Ecotoxicological information**

Please contact the address or phone number listed on the first page of the SDS for additional ecotoxicological information on this material and/or its components.

**Chemical fate information**

Please contact the address or phone number listed on the first page of the SDS for additional chemical fate information on this material and/or its components.

**SECTION 13: Disposal considerations****13.1. Disposal methods**

Dispose of contents/ container in accordance with the local/regional/national/international regulations.

Dispose of waste product in a permitted industrial waste facility. As a disposal alternative, incinerate in a permitted waste incineration facility. Proper destruction may require the use of additional fuel during incineration processes. Empty drums/barrels/containers used for transporting and handling hazardous chemicals (chemical substances/mixtures/preparations classified as Hazardous as per applicable regulations) shall be considered, stored, treated & disposed of as hazardous wastes unless otherwise defined by applicable waste regulations. Consult with the respective regulating authorities to determine the available treatment and disposal facilities.

**EPA Hazardous Waste Number (RCRA):** Not regulated

**SECTION 14: Transport Information**

For Transport Information, please visit <http://3M.com/Transportinfo> or call 1-800-364-3577 or 651-737-6501.

**SECTION 15: Regulatory information****15.1. US Federal Regulations**

Contact 3M for more information.

**EPCRA 311/312 Hazard Classifications:****Physical Hazards**

Not Applicable.

**Health Hazards**

Respiratory or Skin Sensitization

Serious eye damage or eye irritation

Skin Corrosion or Irritation

Specific target organ toxicity (single or repeated exposure)

**Section 313 Toxic Chemicals subject to the reporting requirements of that section and 40 CFR part 372 (EPCRA):**

| <b><u>Ingredient</u></b>               | <b><u>C.A.S. No</u></b> | <b><u>% by Wt</u></b> |
|----------------------------------------|-------------------------|-----------------------|
| POLYMETHYLENE POLYPHENYLENE ISOCYANATE | 9016-87-9               | Trade Secret 10 - 30  |
| P,P'-Methylenebis(phenyl isocyanate)   | 101-68-8                | Trade Secret 10 - 30  |

**15.2. State Regulations**

Contact 3M for more information.

**15.3. Chemical Inventories**

The components of this product are in compliance with the chemical notification requirements of TSCA. All required components of this product are listed on the active portion of the TSCA Inventory.

Contact 3M for more information.

**15.4. International Regulations**

Contact 3M for more information.

**This SDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.**

**SECTION 16: Other information****NFPA Hazard Classification**

**Health:** 2 **Flammability:** 1 **Instability:** 0 **Special Hazards:** None

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

**HMIS Hazard Classification**

**Health:** \*3 **Flammability:** 1 **Physical Hazard:** 0 **Personal Protection:** X - See PPE section.

Hazardous Material Identification System (HMIS® IV) hazard ratings are designed to inform employees of chemical hazards in the workplace. These ratings are based on the inherent properties of the material under expected conditions of normal use and are not intended for use in emergency situations. HMIS® IV ratings are to be used with a fully implemented HMIS® IV program. HMIS® is a registered mark of the American Coatings Association (ACA).

|                        |           |                         |          |
|------------------------|-----------|-------------------------|----------|
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| <b>Issue Date:</b>     | 12/23/25  | <b>Supersedes Date:</b> | 01/31/25 |

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OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR COURSE OF PERFORMANCE OR USAGE OF TRADE. User is responsible for determining whether the 3M product is fit for a particular purpose and suitable for user's method of use or application. Given the variety of factors that can affect the use and application of a 3M product, some of which are uniquely within the user's knowledge and control, it is essential that the user evaluate the 3M product to determine whether it is fit for a particular purpose and suitable for user's method of use or application.

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## Safety Data Sheet

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### SECTION 1: Identification

#### 1.1. Product identifier

3M™ Scotchcast™ Electrical Insulating Resin 2104, Part B

#### Product Identification Numbers

| ID Number      | UPC | ID Number | UPC |
|----------------|-----|-----------|-----|
| 80-6116-1276-5 |     |           |     |

7100213469

#### 1.2. Recommended use and restrictions on use

##### Recommended use

Electrical, Part B of two part electrical resin

#### 1.3. Supplier's details

**MANUFACTURER:** 3M  
**DIVISION:** Electrical Markets Division  
**ADDRESS:** 3M Center, St. Paul, MN 55144-1000, USA  
**Telephone:** 1-888-3M HELPS (1-888-364-3577)

#### 1.4. Emergency telephone number

1-800-364-3577 or (651) 737-6501 (24 hours)

### SECTION 2: Hazard identification

#### 2.1. Hazard classification

Serious Eye Damage/Irritation: Category 1.

#### 2.2. Label elements

##### Signal word

Danger

##### Symbols

Corrosion |

##### Pictograms

**Hazard Statements**

Causes serious eye damage.

**Precautionary Statements****Prevention:**

Wear eye/face protection.

**Response:**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Immediately call a POISON CENTER or doctor/physician.

**SECTION 3: Composition/information on ingredients**

| Ingredient                                               | C.A.S. No. | % by Wt                |
|----------------------------------------------------------|------------|------------------------|
| POLYPROPYLENE GLYCOL GLYCEROL TRIETHER                   | 25791-96-2 | 45 - 70 Trade Secret * |
| N,N-DI(2-HYDROXYPROPYL)ANILINE                           | 3077-13-2  | 10 - 30 Trade Secret * |
| PHTHALIC ACID, DI-C11-14-BRANCHED ALKYL ESTERS, C13-RICH | 68515-47-9 | 10 - 30 Trade Secret * |
| DIPROPYLENE GLYCOL                                       | 25265-71-8 | 5 - 10 Trade Secret *  |

\*The specific chemical identity and/or exact percentage (concentration) of this composition has been withheld as a trade secret.

**SECTION 4: First aid measures****4.1. Description of first aid measures****Inhalation:**

Remove person to fresh air. If you feel unwell, get medical attention.

**Skin Contact:**

Wash with soap and water. If signs/symptoms develop, get medical attention.

**Eye Contact:**

Immediately flush with large amounts of water for at least 15 minutes. Remove contact lenses if easy to do. Continue rinsing. Immediately get medical attention.

**If Swallowed:**

Rinse mouth. If you feel unwell, get medical attention.

**4.2. Most important symptoms and effects, both acute and delayed**

Serious damage to the eyes (corneal cloudiness, severe pain, tearing, ulcerations, and significantly impaired or loss of vision).

**4.3. Indication of any immediate medical attention and special treatment required**

Not applicable.

## SECTION 5: Fire-fighting measures

### 5.1. Suitable extinguishing media

In case of fire: Use a fire fighting agent suitable for ordinary combustible material such as water or foam to extinguish.

### 5.2. Special hazards arising from the substance or mixture

None inherent in this product.

### Hazardous Decomposition or By-Products

#### Substance

Aldehydes  
Carbon monoxide  
Carbon dioxide  
Oxides of Nitrogen

#### Condition

During Combustion  
During Combustion  
During Combustion  
During Combustion

### 5.3. Special protective actions for fire-fighters

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.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment based on the results of an exposure assessment. Refer to Section 8 for PPE recommendations. If anticipated exposure resulting from an accidental release exceeds the protective capabilities of the PPE listed in Section 8, or are unknown, select PPE that offers an appropriate level of protection. Consider the physical and chemical hazards of the material when doing so. Examples of PPE ensembles for emergency response could include wearing bunker gear for a release of flammable material; wearing chemical protective clothing if the spilled material is a corrosive, a sensitizer, a significant dermal irritant, or can be absorbed through the skin; or donning a positive pressure supplied-air respirator for chemicals with inhalation hazards. For information regarding physical and health hazards, refer to sections 2 and 11 of the SDS. Evacuate area. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice.

### 6.2. Environmental precautions

Avoid release to the environment.

### 6.3. Methods and material for containment and cleaning up

Contain spill. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Remember, adding an absorbent material does not remove a physical, health, or environmental hazard. Collect as much of the spilled material as possible. Place in a closed container approved for transportation by appropriate authorities. Clean up residue with an appropriate solvent selected by a qualified and authorized person. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and SDS. Seal the container. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

For industrial/occupational use only. Not for consumer sale or use. Avoid breathing dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid release to the environment.

### 7.2. Conditions for safe storage including any incompatibilities

No special storage requirements.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limits

No occupational exposure limit values exist for any of the components listed in Section 3 of this SDS.

### 8.2. Exposure controls

#### 8.2.1. Engineering controls

Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/vapors/spray. If ventilation is not adequate, use respiratory protection equipment.

#### 8.2.2. Personal protective equipment (PPE)

##### Eye/face protection

Select and use eye/face protection to prevent contact based on the results of an exposure assessment. The following eye/face protection(s) are recommended:

Full Face Shield

Indirect Vented Goggles

##### Skin/hand protection

No chemical protective gloves are required.

##### Respiratory protection

An exposure assessment may be needed to decide if a respirator is required. If a respirator is needed, use respirators as part of a full respiratory protection program. Based on the results of the exposure assessment, select from the following respirator type(s) to reduce inhalation exposure:

Half facepiece or full facepiece air-purifying respirator suitable for organic vapors and particulates

Half facepiece or full facepiece supplied-air respirator

For questions about suitability for a specific application, consult with your respirator manufacturer.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

#### Appearance

##### Physical state

Liquid

##### Color

Light Amber

#### Odor

Mild Glycol

#### Odor threshold

No Data Available

#### pH

No Data Available

#### Melting point

No Data Available

#### Boiling Point

$\geq 230$  °F

#### Flash Point

$\geq 230$  °F [Test Method: Closed Cup]

#### Evaporation rate

No Data Available

#### Flammability (solid, gas)

Not Applicable

#### Flammable Limits(LEL)

No Data Available

#### Flammable Limits(UEL)

No Data Available

#### Vapor Pressure

Negligible

#### Vapor Density

No Data Available

#### Density

1 g/ml

|                                         |                                 |
|-----------------------------------------|---------------------------------|
| Specific Gravity                        | 1 [Ref Std: WATER=1]            |
| Solubility in Water                     | Slight (less than 10%)          |
| Solubility- non-water                   | No Data Available               |
| Partition coefficient: n-octanol/ water | No Data Available               |
| Autoignition temperature                | No Data Available               |
| Decomposition temperature               | No Data Available               |
| Viscosity                               | 450 centipoise - 750 centipoise |
| Average particle size                   | No Data Available               |
| Bulk density                            | No Data Available               |
| Hazardous Air Pollutants                | No Data Available               |
| Molecular weight                        | No Data Available               |
| Volatile Organic Compounds              | No Data Available               |
| Percent volatile                        | No Data Available               |
| Softening point                         | No Data Available               |
| VOC Less H2O & Exempt Solvents          | No Data Available               |

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

This material is considered to be non reactive under normal use conditions.

### 10.2. Chemical stability

Stable.

### 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

### 10.4. Conditions to avoid

None known.

### 10.5. Incompatible materials

None known.

No Data Available

### 10.6. Hazardous decomposition products

| <u>Substance</u> | <u>Condition</u> |
|------------------|------------------|
| None known.      |                  |

Refer to section 5.2 for hazardous decomposition products during combustion.

## SECTION 11: Toxicological information

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labeling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

### 11.1. Information on Toxicological effects

#### Signs and Symptoms of Exposure

Based on test data and/or information on the components, this material may produce the following health effects:

**Inhalation:**

Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

**Skin Contact:**

Contact with the skin during product use is not expected to result in significant irritation.

**Eye Contact:**

Corrosive (Eye Burns): Signs/symptoms may include cloudy appearance of the cornea, chemical burns, severe pain, tearing, ulcerations, significantly impaired vision or complete loss of vision.

**Ingestion:**

Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

**Toxicological Data**

If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or the data are not sufficient for classification.

**Acute Toxicity**

| Name                                   | Route                          | Species | Value                                          |
|----------------------------------------|--------------------------------|---------|------------------------------------------------|
| Overall product                        | Dermal                         |         | No data available; calculated ATE >5,000 mg/kg |
| Overall product                        | Ingestion                      |         | No data available; calculated ATE >5,000 mg/kg |
| POLYPROPYLENE GLYCOL GLYCEROL TRIETHER | Dermal                         | Rat     | LD50 > 2,000 mg/kg                             |
| POLYPROPYLENE GLYCOL GLYCEROL TRIETHER | Inhalation-Dust/Mist (4 hours) | Rat     | LC50 > 50 mg/l                                 |
| POLYPROPYLENE GLYCOL GLYCEROL TRIETHER | Ingestion                      | Rat     | LD50 4,600 mg/kg                               |
| N,N-DI(2-HYDROXYPROPYL)ANILINE         | Dermal                         | Rabbit  | LD50 > 2,000 mg/kg                             |
| N,N-DI(2-HYDROXYPROPYL)ANILINE         | Ingestion                      | Rat     | LD50 3,800 mg/kg                               |
| DIPROPYLENE GLYCOL                     | Dermal                         | Rabbit  | LD50 > 5,010 mg/kg                             |
| DIPROPYLENE GLYCOL                     | Inhalation-Dust/Mist (4 hours) | Rat     | LC50 > 2.34 mg/l                               |
| DIPROPYLENE GLYCOL                     | Ingestion                      | Rat     | LD50 > 5,010 mg/kg                             |

ATE = acute toxicity estimate

**Skin Corrosion/Irritation**

| Name                                   | Species               | Value                     |
|----------------------------------------|-----------------------|---------------------------|
| POLYPROPYLENE GLYCOL GLYCEROL TRIETHER | Rabbit                | No significant irritation |
| N,N-DI(2-HYDROXYPROPYL)ANILINE         | Professional judgment | Minimal irritation        |
| DIPROPYLENE GLYCOL                     | Rabbit                | No significant irritation |

**Serious Eye Damage/Irritation**

| Name                                   | Species               | Value                     |
|----------------------------------------|-----------------------|---------------------------|
| POLYPROPYLENE GLYCOL GLYCEROL TRIETHER | Rabbit                | Mild irritant             |
| N,N-DI(2-HYDROXYPROPYL)ANILINE         | Professional judgment | Corrosive                 |
| DIPROPYLENE GLYCOL                     | Rabbit                | No significant irritation |

**Skin Sensitization**

| Name               | Species    | Value          |
|--------------------|------------|----------------|
| DIPROPYLENE GLYCOL | Guinea pig | Not classified |

**Respiratory Sensitization**

For the component/components, either no data are currently available or the data are not sufficient for classification.

**Germ Cell Mutagenicity**

| Name               | Route    | Value         |
|--------------------|----------|---------------|
| DIPROPYLENE GLYCOL | In Vitro | Not mutagenic |
| DIPROPYLENE GLYCOL | In vivo  | Not mutagenic |

**Carcinogenicity**

| Name               | Route     | Species                 | Value            |
|--------------------|-----------|-------------------------|------------------|
| DIPROPYLENE GLYCOL | Ingestion | Multiple animal species | Not carcinogenic |

**Reproductive Toxicity****Reproductive and/or Developmental Effects**

| Name               | Route     | Value                          | Species | Test Result           | Exposure Duration    |
|--------------------|-----------|--------------------------------|---------|-----------------------|----------------------|
| DIPROPYLENE GLYCOL | Ingestion | Not classified for development | Rat     | NOAEL 5,000 mg/kg/day | during organogenesis |

**Target Organ(s)****Specific Target Organ Toxicity - single exposure**

For the component/components, either no data are currently available or the data are not sufficient for classification.

**Specific Target Organ Toxicity - repeated exposure**

| Name               | Route     | Target Organ(s)                                                                                                                           | Value                                                                        | Species | Test Result           | Exposure Duration |
|--------------------|-----------|-------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|---------|-----------------------|-------------------|
| DIPROPYLENE GLYCOL | Ingestion | respiratory system                                                                                                                        | Some positive data exist, but the data are not sufficient for classification | Rat     | NOAEL 470 mg/kg/day   | 105 weeks         |
| DIPROPYLENE GLYCOL | Ingestion | heart   endocrine system   liver                                                                                                          | Not classified                                                               | Rat     | NOAEL 3,040 mg/kg/day | 105 weeks         |
| DIPROPYLENE GLYCOL | Ingestion | kidney and/or bladder                                                                                                                     | Not classified                                                               | Rat     | NOAEL 115 mg/kg/day   | 105 weeks         |
| DIPROPYLENE GLYCOL | Ingestion | skin   gastrointestinal tract   bone, teeth, nails, and/or hair   hematopoietic system   immune system   nervous system   vascular system | Not classified                                                               | Rat     | NOAEL 3,040 mg/kg/day | 105 weeks         |

**Aspiration Hazard**

For the component/components, either no data are currently available or the data are not sufficient for classification.

Please contact the address or phone number listed on the first page of the SDS for additional toxicological information on this material and/or its components.

**SECTION 12: Ecological information****Ecotoxicological information**

Please contact the address or phone number listed on the first page of the SDS for additional ecotoxicological information on this material and/or its components.

### Chemical fate information

Please contact the address or phone number listed on the first page of the SDS for additional chemical fate information on this material and/or its components.

## SECTION 13: Disposal considerations

### 13.1. Disposal methods

Dispose of contents/ container in accordance with the local/regional/national/international regulations.

Dispose of completely cured (or polymerized) material in a permitted industrial waste facility. As a disposal alternative, incinerate uncured product in a permitted waste incineration facility. Proper destruction may require the use of additional fuel during incineration processes. If no other disposal options are available, waste product that has been completely cured or polymerized may be placed in a landfill properly designed for industrial waste. Empty drums/barrels/containers used for transporting and handling hazardous chemicals (chemical substances/mixtures/preparations classified as Hazardous as per applicable regulations) shall be considered, stored, treated & disposed of as hazardous wastes unless otherwise defined by applicable waste regulations. Consult with the respective regulating authorities to determine the available treatment and disposal facilities.

EPA Hazardous Waste Number (RCRA): Not regulated

## SECTION 14: Transport Information

For Transport Information, please visit <http://3M.com/Transportinfo> or call 1-800-364-3577 or 651-737-6501.

## SECTION 15: Regulatory information

### 15.1. US Federal Regulations

Contact 3M for more information.

#### EPCRA 311/312 Hazard Classifications:

##### Physical Hazards

Not applicable

##### Health Hazards

Serious eye damage or eye irritation

### 15.2. State Regulations

Contact 3M for more information.

### 15.3. Chemical Inventories

The components of this product are in compliance with the chemical notification requirements of TSCA. All required components of this product are listed on the active portion of the TSCA Inventory.

Contact 3M for more information.

### 15.4. International Regulations

Contact 3M for more information.

This SDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.

## SECTION 16: Other information

### NFPA Hazard Classification

**Health:** 3 **Flammability:** 1 **Instability:** 0 **Special Hazards:** None

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

### HMIS Hazard Classification

**Health:** 3 **Flammability:** 1 **Physical Hazard:** 0 **Personal Protection:** X - See PPE section.

Hazardous Material Identification System (HMIS® IV) hazard ratings are designed to inform employees of chemical hazards in the workplace. These ratings are based on the inherent properties of the material under expected conditions of normal use and are not intended for use in emergency situations. HMIS® IV ratings are to be used with a fully implemented HMIS® IV program. HMIS® is a registered mark of the American Coatings Association (ACA).

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