



## Safety Data Sheet

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|                        |           |                         |          |
|------------------------|-----------|-------------------------|----------|
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| <b>Issue Date:</b>     | 05/03/21  | <b>Supersedes Date:</b> | 09/04/15 |

### Product identifier

3M™ Scotchcast™ Electrical Resin 8 (A & B)

### ID Number(s):

80-1300-0093-0, 80-1300-0326-4, 80-6112-0164-3, 80-6116-0631-2, 80-6116-1500-8

7000009236, 7000057520, 7010319916

### Recommended use

Electrical

### Supplier's details

|                      |                             |
|----------------------|-----------------------------|
| <b>MANUFACTURER:</b> | 3M                          |
| <b>DIVISION:</b>     | Electrical Markets Division |

|                   |                                         |
|-------------------|-----------------------------------------|
| <b>ADDRESS:</b>   | 3M Center, St. Paul, MN 55144-1000, USA |
| <b>Telephone:</b> | 1-888-3M HELPS (1-888-364-3577)         |

### Emergency telephone number

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

**This product is a kit or a multipart product which consists of multiple, independently packaged components. A Safety Data Sheet (SDS), Article Information Sheet (AIS), or Article Information Letter (AIL) for each of these components is included. Please do not separate the component documents from this cover page. The document numbers for components of this product are:**

24-7020-1, 10-2579-0

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**Document Group:** 10-2579-0  
**Issue Date:** 04/30/21

**Version Number:** 21.01  
**Supersedes Date:** 05/21/18

### SECTION 1: Identification

#### 1.1. Product identifier

3M™ Scotchcast™ Electrical Resin 8 Part A

##### Product Identification Numbers

| ID Number      | UPC | ID Number      | UPC              |
|----------------|-----|----------------|------------------|
| LH-A100-0611-1 |     | LH-A100-0611-2 |                  |
| LH-A100-0611-3 |     | 80-1300-0095-5 | 00-54007-08085-5 |

7000057511

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

##### Recommended use

Encapsulation, Electrical insulating/potting

#### 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 2B.

Skin Sensitizer: Category 1.

#### 2.2. Label elements

##### Signal word

Warning

##### Symbols

Exclamation mark |

##### Pictograms

**Hazard Statements**

Causes eye irritation.  
May cause an allergic skin reaction.

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

Avoid breathing dust/fume/gas/mist/vapors/spray.  
Wear protective gloves.  
Wash thoroughly after handling.  
Contaminated work clothing must not be allowed out of the workplace.

**Response:**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
If eye irritation persists: Get medical advice/attention.  
IF ON SKIN: Wash with plenty of soap and water.  
If skin irritation or rash occurs: Get medical advice/attention.  
Wash contaminated clothing before reuse.

**Disposal:**

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

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

| <b>Ingredient</b> | <b>C.A.S. No.</b> | <b>% by Wt</b>          |
|-------------------|-------------------|-------------------------|
| EPOXY RESIN       | 25068-38-6        | 99 - 100 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:**

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

**Eye Contact:**

Flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. If signs/symptoms persist, 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**

No critical symptoms or effects. See Section 11.1, information on toxicological effects.

#### 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

| <u>Substance</u> | <u>Condition</u>  |
|------------------|-------------------|
| Aldehydes        | During Combustion |
| Carbon monoxide  | During Combustion |
| Carbon dioxide   | 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. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

### 6.2. Environmental precautions

Avoid release to the environment. For larger spills, cover drains and build dikes to prevent entry into sewer systems or bodies of water.

### 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. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wash contaminated clothing before reuse. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.)

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

Store away from heat. Keep from freezing. Store away from oxidizing agents.

## 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

Curing enclosures must be exhausted to outdoors or to a suitable emission control device. 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:

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. Note: Nitrile gloves may be worn over polymer laminate gloves to improve dexterity.

Gloves made from the following material(s) are recommended: Polymer laminate

If this product is used in a manner that presents a higher potential for exposure (eg. spraying, high splash potential etc.), then use of protective coveralls may be necessary. Select and use body protection to prevent contact based on the results of an exposure assessment. The following protective clothing material(s) are recommended: Apron - polymer laminate

##### 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

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

#### Specific Physical Form:

Two-part liquids in Unipak Bag

#### Odor

Amine

#### Odor threshold

No Data Available

#### pH

No Data Available

#### Melting point

No Data Available

|                                         |                                                             |
|-----------------------------------------|-------------------------------------------------------------|
| Boiling Point                           | >=260 °C                                                    |
| Flash Point                             | 251 °C [Test Method: Pensky-Martens 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                          | 0.03 mbar [@ 77 °C]                                         |
| Vapor Density                           | No Data Available                                           |
| Density                                 | No Data Available                                           |
| Specific Gravity                        | 1.17 [Ref Std: WATER=1]                                     |
| Solubility in Water                     | Negligible                                                  |
| 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                               | 4,000 - 12,500 centipoise [@ 73.4 °F ] [Details: MITS data] |
| 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                        | 0 %                                                         |
| Softening point                         | 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

Heat

### 10.5. Incompatible materials

Strong oxidizing agents

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:

Vapors released during curing may cause irritation of the respiratory system. Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

#### Skin Contact:

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

#### Eye Contact:

Moderate Eye Irritation: Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy 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              |
|-------------|-----------|---------|--------------------|
| EPOXY RESIN | Dermal    | Rat     | LD50 > 1,600 mg/kg |
| EPOXY RESIN | Ingestion | Rat     | LD50 > 1,000 mg/kg |

ATE = acute toxicity estimate

#### Skin Corrosion/Irritation

| Name        | Species | Value         |
|-------------|---------|---------------|
| EPOXY RESIN | Rabbit  | Mild irritant |

#### Serious Eye Damage/Irritation

| Name        | Species | Value             |
|-------------|---------|-------------------|
| EPOXY RESIN | Rabbit  | Moderate irritant |

#### Skin Sensitization

| Name        | Species          | Value       |
|-------------|------------------|-------------|
| EPOXY RESIN | Human and animal | Sensitizing |

#### Respiratory Sensitization

| Name        | Species | Value          |
|-------------|---------|----------------|
| EPOXY RESIN | Human   | Not classified |

#### Germ Cell Mutagenicity

| Name        | Route   | Value         |
|-------------|---------|---------------|
| EPOXY RESIN | In vivo | Not mutagenic |

|             |          |                                                                              |
|-------------|----------|------------------------------------------------------------------------------|
| EPOXY RESIN | In Vitro | Some positive data exist, but the data are not sufficient for classification |
|-------------|----------|------------------------------------------------------------------------------|

**Carcinogenicity**

| Name        | Route  | Species | Value                                                                        |
|-------------|--------|---------|------------------------------------------------------------------------------|
| EPOXY RESIN | Dermal | Mouse   | Some positive data exist, but the data are not sufficient for classification |

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

| Name        | Route     | Value                                  | Species | Test Result         | Exposure Duration    |
|-------------|-----------|----------------------------------------|---------|---------------------|----------------------|
| EPOXY RESIN | Ingestion | Not classified for female reproduction | Rat     | NOAEL 750 mg/kg/day | 2 generation         |
| EPOXY RESIN | Ingestion | Not classified for male reproduction   | Rat     | NOAEL 750 mg/kg/day | 2 generation         |
| EPOXY RESIN | Dermal    | Not classified for development         | Rabbit  | NOAEL 300 mg/kg/day | during organogenesis |
| EPOXY RESIN | Ingestion | Not classified for development         | Rat     | NOAEL 750 mg/kg/day | 2 generation         |

**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 |
|-------------|-----------|----------------------------------------------------------------------------------------------------------|----------------|---------|-----------------------|-------------------|
| EPOXY RESIN | Dermal    | liver                                                                                                    | Not classified | Rat     | NOAEL 1,000 mg/kg/day | 2 years           |
| EPOXY RESIN | Dermal    | nervous system                                                                                           | Not classified | Rat     | NOAEL 1,000 mg/kg/day | 13 weeks          |
| EPOXY RESIN | Ingestion | auditory system   heart   endocrine system   hematopoietic system   liver   eyes   kidney and/or bladder | Not classified | Rat     | NOAEL 1,000 mg/kg/day | 28 days           |

**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                       |
|--------------------------------------|
| Respiratory or Skin Sensitization    |
| Serious eye damage or eye irritation |

### 15.2. State Regulations

Contact 3M for more information.

### 15.3. Chemical Inventories

The components of this material are in compliance with the provisions of Australia National Industrial Chemical Notification and Assessment Scheme (NICNAS). Certain restrictions may apply. Contact the selling division for additional information.

The components of this product are in compliance with the new substance notification requirements of CEPA.

The components of this material are in compliance with the China "Measures on Environmental Management of New Chemical Substance". Certain restrictions may apply. Contact the selling division for additional information.

The components of this material are in compliance with the provisions of the Korean Toxic Chemical Control Law. Certain restrictions may apply. Contact the selling division for additional information.

The components of this material are in compliance with the provisions of Japan Chemical Substance Control Law. Certain restrictions may apply. Contact the selling division for additional information.

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:** \*2 **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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**Version Number:** 21.01

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**Document Group:** 24-7020-1  
**Issue Date:** 05/22/18

**Version Number:** 9.00  
**Supersedes Date:** 01/04/18

### SECTION 1: Identification

#### 1.1. Product identifier

3M™ Scotchcast™ Electrical Resin 8 Part B

#### Product Identification Numbers

LH-A100-0611-4, LH-A100-0611-5, LH-A100-0611-6, 80-1300-0096-3, 80-6114-9050-1

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

##### Recommended use

Electrical, Electrical insulation

##### Restrictions on use

Industrial and professional use.

#### 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

Acute Toxicity (oral): Category 4.  
Serious Eye Damage/Irritation: Category 1.  
Skin Corrosion/Irritation: Category 1B.  
Respiratory Sensitizer: Category 1.  
Skin Sensitizer: Category 1A.  
Reproductive Toxicity: Category 1B.

#### 2.2. Label elements

##### Signal word

Danger

**Symbols**

Corrosion | Exclamation mark | Health Hazard |

**Pictograms****Hazard Statements**

Harmful if swallowed.

Causes severe skin burns and eye damage.

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

May cause an allergic skin reaction.

May damage fertility or the unborn child.

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

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Do not breathe dust/fume/gas/mist/vapors/spray.

In case of inadequate ventilation wear respiratory protection.

Wear protective gloves, protective clothing, and eye/face protection.

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

Wash thoroughly after handling.

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

**Response:**

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

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

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.

If skin irritation or rash occurs: Get medical advice/attention.

Wash contaminated clothing before reuse.

Rinse mouth.

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

**Storage:**

Store locked up.

**Disposal:**

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

85% of the mixture consists of ingredients of unknown acute oral toxicity.

85% of the mixture consists of ingredients of unknown acute dermal toxicity.

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

| Ingredient                 | C.A.S. No. | % by Wt                            |
|----------------------------|------------|------------------------------------|
| Phenol, 4-nonyl-, branched | 84852-15-3 | 2.5 (typically 2.5) Trade Secret * |

|                                               |            |                        |
|-----------------------------------------------|------------|------------------------|
| POLYMERIC DIAMINE                             | 68911-25-1 | 40 - 70 Trade Secret * |
| Benzene, ethenyl-, homopolymer (oligomeric)   | 9003-53-6  | 10 - 30 Trade Secret * |
| BIS(3-AMINOPROPYL) ETHER OF DIETHYLENE GLYCOL | 4246-51-9  | 7 - 15 Trade Secret *  |
| DIETHYLENETRIAMINE                            | 111-40-0   | 1 - 5 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:

Immediately flush with large amounts of water for at least 15 minutes. Remove contaminated clothing. Get immediate medical attention. Wash clothing before reuse.

#### 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. Do not induce vomiting. Get immediate medical attention.

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

See Section 11.1. Information on toxicological effects.

### 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 carbon dioxide or dry chemical extinguisher to extinguish.

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

None inherent in this product.

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

Water may not effectively extinguish fire; however, it should be used to keep fire-exposed containers and surfaces cool and prevent explosive rupture.

## 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. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

### 6.2. Environmental precautions

Avoid release to the environment. For larger spills, cover drains and build dikes to prevent entry into sewer systems or

bodies of water.

### 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 or professional use only. Do not handle until all safety precautions have been read and understood. 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. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.) Use personal protective equipment (gloves, respirators, etc.) as required.

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

Store away from heat. Store away from acids. Store away from oxidizing agents.

## 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 |
|--------------------|------------|--------|------------|---------------------|
| DIETHYLENETRIAMINE | 111-40-0   | ACGIH  | TWA:1 ppm  | SKIN                |

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:

Full Face Shield

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.

Gloves made from the following material(s) are recommended: Fluoroelastomer

If this product is used in a manner that presents a higher potential for exposure (eg. spraying, high splash potential etc.), then use of protective coveralls may be necessary. Select and use body protection to prevent contact based on the results of an exposure assessment. The following protective clothing material(s) are recommended: Apron - polymer laminate

### 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

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

|                                                |                                  |
|------------------------------------------------|----------------------------------|
| <b>General Physical Form:</b>                  | Liquid                           |
| <b>Odor, Color, Grade:</b>                     | Brown liquid with amine odor     |
| <b>Odor threshold</b>                          | No Data Available                |
| <b>pH</b>                                      | No Data Available                |
| <b>Melting point</b>                           | Not Applicable                   |
| <b>Boiling Point</b>                           | >= 200 °F                        |
| <b>Flash Point</b>                             | 200 °F [Test Method: Closed Cup] |
| <b>Evaporation rate</b>                        | Not Applicable                   |
| <b>Flammability (solid, gas)</b>               | Not Applicable                   |
| <b>Flammable Limits(LEL)</b>                   | No Data Available                |
| <b>Flammable Limits(UEL)</b>                   | No Data Available                |
| <b>Vapor Pressure</b>                          | No Data Available                |
| <b>Vapor Density</b>                           | No Data Available                |
| <b>Density</b>                                 | No Data Available                |
| <b>Specific Gravity</b>                        | 0.975 - 1.015 [Ref Std: WATER=1] |
| <b>Solubility in Water</b>                     | Nil                              |
| <b>Solubility- non-water</b>                   | No Data Available                |
| <b>Partition coefficient: n-octanol/ water</b> | No Data Available                |
| <b>Autoignition temperature</b>                | Not Applicable                   |
| <b>Decomposition temperature</b>               | No Data Available                |
| <b>Viscosity</b>                               | Not Applicable                   |
| <b>Average particle size</b>                   | No Data Available                |
| <b>Bulk density</b>                            | No Data Available                |
| <b>Hazardous Air Pollutants</b>                | No Data Available                |
| <b>Molecular weight</b>                        | No Data Available                |
| <b>Volatile Organic Compounds</b>              | No Data Available                |
| <b>Percent volatile</b>                        | Not Applicable                   |
| <b>Softening point</b>                         | No Data Available                |
| <b>VOC Less H2O &amp; Exempt Solvents</b>      | No Data Available                |

## 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**

Heat

**10.5. Incompatible materials**

Strong oxidizing agents

**10.6. Hazardous decomposition products****Substance****Condition**

Carbon monoxide

Oxidation, heat or reaction

Carbon dioxide

Oxidation, heat or reaction

**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:**

May be harmful in contact with skin.

Corrosive (Skin Burns): Signs/symptoms may include localized redness, swelling, itching, intense pain, blistering, ulceration, and tissue destruction.

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

**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:**

Harmful if swallowed. Gastrointestinal Corrosion: Signs/symptoms may include severe mouth, throat and abdominal pain; nausea; vomiting; and diarrhea; blood in the feces and/or vomitus may also be seen.

May cause additional health effects (see below).

**Additional Health Effects:****Reproductive/Developmental Toxicity:**

Contains a chemical or chemicals which can cause birth defects or other reproductive harm.

**Additional Information:**

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

**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 ATE2,000 - 5,000 mg/kg |
| Overall product                               | Ingestion                      |         | No data available; calculated ATE300 - 2,000 mg/kg   |
| BIS(3-AMINOPROPYL) ETHER OF DIETHYLENE GLYCOL | Dermal                         | Rabbit  | LD50 2,500 mg/kg                                     |
| BIS(3-AMINOPROPYL) ETHER OF DIETHYLENE GLYCOL | Ingestion                      | Rat     | LD50 3,160 mg/kg                                     |
| Phenol, 4-nonyl-, branched                    | Dermal                         | Rabbit  | LD50 > 2,000 mg/kg                                   |
| Phenol, 4-nonyl-, branched                    | Ingestion                      | Rat     | LD50 1,531 mg/kg                                     |
| DIETHYLENETRIAMINE                            | Dermal                         | Rabbit  | LD50 1,045 mg/kg                                     |
| DIETHYLENETRIAMINE                            | Inhalation-Dust/Mist (4 hours) | Rat     | LC50 > 0.07 mg/l                                     |
| DIETHYLENETRIAMINE                            | Ingestion                      | Rat     | LD50 819 mg/kg                                       |

ATE = acute toxicity estimate

**Skin Corrosion/Irritation**

| Name                                          | Species | Value     |
|-----------------------------------------------|---------|-----------|
| POLYMERIC DIAMINE                             | Rabbit  | Irritant  |
| BIS(3-AMINOPROPYL) ETHER OF DIETHYLENE GLYCOL | Rabbit  | Corrosive |
| Phenol, 4-nonyl-, branched                    | Rabbit  | Corrosive |
| DIETHYLENETRIAMINE                            | Rabbit  | Corrosive |

**Serious Eye Damage/Irritation**

| Name                                          | Species                | Value     |
|-----------------------------------------------|------------------------|-----------|
| POLYMERIC DIAMINE                             | similar health hazards | Corrosive |
| BIS(3-AMINOPROPYL) ETHER OF DIETHYLENE GLYCOL | similar health hazards | Corrosive |
| Phenol, 4-nonyl-, branched                    | Rabbit                 | Corrosive |
| DIETHYLENETRIAMINE                            | Rabbit                 | Corrosive |

**Skin Sensitization**

| Name                       | Species    | Value          |
|----------------------------|------------|----------------|
| POLYMERIC DIAMINE          | Guinea pig | Sensitizing    |
| Phenol, 4-nonyl-, branched | Guinea     | Not classified |

|                    |            |             |
|--------------------|------------|-------------|
|                    | pig        |             |
| DIETHYLENETRIAMINE | Guinea pig | Sensitizing |

**Respiratory Sensitization**

| Name               | Species | Value       |
|--------------------|---------|-------------|
| DIETHYLENETRIAMINE | Human   | Sensitizing |

**Germ Cell Mutagenicity**

| Name                       | Route    | Value         |
|----------------------------|----------|---------------|
| Phenol, 4-nonyl-, branched | In Vitro | Not mutagenic |
| Phenol, 4-nonyl-, branched | In vivo  | Not mutagenic |
| DIETHYLENETRIAMINE         | In Vitro | Not mutagenic |

**Carcinogenicity**

| Name               | Route  | Species                 | Value            |
|--------------------|--------|-------------------------|------------------|
| DIETHYLENETRIAMINE | Dermal | Multiple animal species | Not carcinogenic |

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

| Name                                        | Route     | Value                                  | Species                 | Test Result         | Exposure Duration            |
|---------------------------------------------|-----------|----------------------------------------|-------------------------|---------------------|------------------------------|
| Benzene, ethenyl-, homopolymer (oligomeric) | Ingestion | Toxic to female reproduction           | Rat                     | NOAEL 5 mg/kg/day   | premating into lactation     |
| Phenol, 4-nonyl-, branched                  | Ingestion | Not classified for male reproduction   | Rat                     | NOAEL 400 mg/kg/day | 28 days                      |
| Phenol, 4-nonyl-, branched                  | Ingestion | Toxic to female reproduction           | official classification | NOAEL Not available |                              |
| Phenol, 4-nonyl-, branched                  | Ingestion | Toxic to development                   | official classification | NOAEL Not available |                              |
| DIETHYLENETRIAMINE                          | Ingestion | Not classified for male reproduction   | Rat                     | NOAEL 300 mg/kg/day | 28 days                      |
| DIETHYLENETRIAMINE                          | Ingestion | Not classified for development         | Rat                     | NOAEL 300 mg/kg/day | premating & during gestation |
| DIETHYLENETRIAMINE                          | Ingestion | Not classified for female reproduction | Rat                     | NOAEL 30 mg/kg/day  | premating & during gestation |

**Lactation**

| Name                       | Route     | Species | Value                                          |
|----------------------------|-----------|---------|------------------------------------------------|
| Phenol, 4-nonyl-, branched | Ingestion | Rat     | Not classified for effects on or via lactation |

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

| Name                                          | Route      | Target Organ(s)        | Value                                                                        | Species | Test Result         | Exposure Duration |
|-----------------------------------------------|------------|------------------------|------------------------------------------------------------------------------|---------|---------------------|-------------------|
| BIS(3-AMINOPROPYL) ETHER OF DIETHYLENE GLYCOL | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification |         | NOAEL Not available |                   |
| DIETHYLENETRIAMINE                            | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification |         | NOAEL Not available |                   |

**Specific Target Organ Toxicity - repeated exposure**

| Name                       | Route     | Target Organ(s)                                                                                                                 | Value          | Species | Test Result           | Exposure Duration |
|----------------------------|-----------|---------------------------------------------------------------------------------------------------------------------------------|----------------|---------|-----------------------|-------------------|
| Phenol, 4-nonyl-, branched | Ingestion | endocrine system   hematopoietic system   liver                                                                                 | Not classified | Rat     | NOAEL 400 mg/kg/day   | 28 days           |
| Phenol, 4-nonyl-, branched | Ingestion | kidney and/or bladder   heart   bone, teeth, nails, and/or hair   immune system   muscles   nervous system   respiratory system | Not classified | Rat     | NOAEL 150 mg/kg/day   | 90 days           |
| DIETHYLENETRIAMINE         | Ingestion | endocrine system   liver   kidney and/or bladder                                                                                | Not classified | Rat     | NOAEL 1,210 mg/kg/day | 90 days           |

**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. 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**

Acute toxicity

Hazard Not Otherwise Classified (HNOC)

Reproductive toxicity

Respiratory or Skin Sensitization

Serious eye damage or eye irritation

Skin Corrosion or Irritation

**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>          |
|--------------------------------------------------------------------|-------------------------|--------------------------------|
| Phenol, 4-nonyl-, branched                                         | 84852-15-3              | Trade Secret 2.5(typically2.5) |
| Phenol, 4-nonyl-, branched (NONYLPHENOL AND ITS ETHOXYLATES (NPE)) | 84852-15-3              | 2.5(typically2.5)              |
| Phenol, 4-nonyl-, branched (Phenol, 4-nonyl-, branched)            | 84852-15-3              | 2.5(typically2.5)              |
| Phenol, 4-nonyl-, branched (Phenol, nonyl-)                        | 84852-15-3              | 2.5(typically2.5)              |
| Phenol, 4-nonyl-, branched (p-Isononylphenol)                      | 84852-15-3              | 2.5(typically2.5)              |

**This material contains a chemical which requires export notification under TSCA Section 12[b]:**

| <b><u>Ingredient (Category if applicable)</u></b>       | <b><u>C.A.S. No</u></b> | <b><u>Regulation</u></b>                                              | <b><u>Status</u></b> |
|---------------------------------------------------------|-------------------------|-----------------------------------------------------------------------|----------------------|
| Phenol, 4-nonyl-, branched (Phenol, 4-nonyl-, branched) | 84852-15-3              | Toxic Substances Control Act (TSCA) 5 SNUR or Consent Order Chemicals | Proposed             |
| Phenol, 4-nonyl-, branched (Phenol, nonyl-)             | 84852-15-3              | Toxic Substances Control Act (TSCA) 5 SNUR or Consent Order Chemicals | Proposed             |
| Phenol, 4-nonyl-, branched                              | 84852-15-3              | Toxic Substances Control Act (TSCA) 5 SNUR or Consent Order Chemicals | Proposed             |

**This material contains a chemical subject to a proposed EPA Significant New Use Rule (TSCA Section 5)**

| <b><u>Ingredient (Category if applicable)</u></b> | <b><u>C.A.S. No</u></b> | <b><u>Reference</u></b> |
|---------------------------------------------------|-------------------------|-------------------------|
| Phenol, 4-nonyl-, branched                        | 84852-15-3              | 79 FR 59186             |

**15.2. State Regulations**

Contact 3M for more information.

**15.3. Chemical Inventories**

The components of this product are in compliance with the new substance notification requirements of CEPA.

The components of this material are in compliance with the China "Measures on Environmental Management of New Chemical Substance". Certain restrictions may apply. Contact the selling division for additional information.

The components of this material are in compliance with the provisions of the Korean Toxic Chemical Control Law. Certain restrictions may apply. Contact the selling division for additional information.

The components of this material are in compliance with the provisions of Philippines RA 6969 requirements. Certain restrictions may apply. Contact the selling division for additional information.

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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