

# **Safety Data Sheet**

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|-----------------|-----------|------------------|----------|
| Issue Date:     | 04/16/15  | Supercedes Date: | 03/25/15 |

#### **Product identifier**

3M<sup>TM</sup> Scotch-Weld<sup>TM</sup> Epoxy Adhesive DP110 Translucent

**ID** Number(s):

62-3563-1430-2, 62-3563-1434-4, 62-3563-3530-7, 62-3563-3830-1

# Recommended use

Structural adhesive

# Supplier's details

| MANUFACTURER:          | 3M  |
|------------------------|---|
| DIVISION:              | Industrial Adhesives and Tapes Division                                 |
| ADDRESS:<br>Telephone: | 3M Center, St. Paul, MN 55144-1000, USA 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:

### 11-3316-4, 11-3315-6

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# **SECTION 1: Identification**

### 1.1. Product identifier

3M<sup>TM</sup> Scotch-Weld<sup>TM</sup> Epoxy Adhesive DP110 Translucent, Part B

**Product Identification Numbers** DP-110

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

**Recommended use** Structural adhesive

| 1.3. Supplier's details |   |
|-------------------------|---|
| <b>MANUFACTURER:</b>    | 3M                                      |
| <b>DIVISION:</b>        | Industrial Adhesives and Tapes 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.

**2.3. Hazards not otherwise classified** None.

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

| Ingredient                             | C.A.S. No.    | % by Wt                  |
|--|---------------|--------------------------|
| Epoxy Resin                            | 25068-38-6    | 60 - 90 Trade Secret *   |
| Methacrylate/Butadiene/Styrene Polymer | Trade Secret* | 10 - 30 Trade Secret *   |
| Hydrogenated Terphenyl                 | 61788-32-7    | 5 - 10 Trade Secret *    |
| Hydrogenated Polyphenyls               | 68956-74-1    | < 2 Trade Secret *       |
| Amorphous Silica                       | 67762-90-7    | 0.5 - 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 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

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 |
| Hydrocarbons                  | During Combustion |
| Carbon monoxide               | During Combustion |
| Carbon dioxide                | During Combustion |
| Ketones                       | During Combustion |
| Toxic Vapor, Gas, Particulate | During Combustion |

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

No special protective actions for fire-fighters are anticipated.

# **SECTION 6: Accidental release measures**

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

Evacuate area. Ventilate the area with fresh air. 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.

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

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.

# **SECTION 7: Handling and storage**

### 3M<sup>™</sup> Scotch-Weld<sup>™</sup> Epoxy Adhesive DP110 Translucent, Part B 04/16/15

#### 7.1. Precautions for safe handling

For industrial or professional use only. 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. 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 |
|------------------------|------------|--------|--------------------------|---------------------|
| Hydrogenated Terphenyl | 61788-32-7 | ACGIH  | TWA:0.5 ppm              |                     |
| Amorphous Silica       | 67762-90-7 | CMRG   | CEIL:5 mg/m3             |                     |
| SILICA, AMORPHOUS      | 67762-90-7 | OSHA   | TWA concentration:0.8    |                     |
|                        |            |        | mg/m3;TWA:20 millions of |                     |
|                        |            |        | particles/cu. ft.        |                     |

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:

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

#### **Respiratory protection**

None required.

# **SECTION 9: Physical and chemical properties**

| 9.1. Information on basic physical and chemical properties |  |  |  |
|--|--|--|--|
| General Physical Form:                                     | Liquid   |  |  |
| Specific Physical Form:                                    | Paste  |  |  |
| Odor, Color, Grade:  | Translucent, slight odor.  |  |  |
| Odor threshold   | No Data Available  |  |  |
| рН   | Not Applicable   |  |  |
| Melting point  | No Data Available  |  |  |
| Boiling Point  | >=260 °C   |  |  |
| Flash Point  | >=480 °F [ <i>Test Method:</i> Closed Cup]   |  |  |
| Evaporation rate   | Not Applicable   |  |  |
| Flammability (solid, gas)                                  | Not Applicable   |  |  |
| Flammable Limits(LEL)                                      | Not Applicable   |  |  |
| Flammable Limits(UEL)                                      | Not Applicable   |  |  |
| Vapor Pressure   | Not Applicable   |  |  |
| Vapor Density  | Not Applicable   |  |  |
| Density  | 1.13 g/ml  |  |  |
| Specific Gravity   | 1.13 [ <i>Ref Std:</i> WATER=1]  |  |  |
| Solubility in Water  | Nil  |  |  |
| 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  | 45,000 - 65,000 centipoise [@ 73.4 °F]   |  |  |
| Hazardous Air Pollutants                                   | 0 % weight [ <i>Test Method:</i> Calculated]   |  |  |
| VOC Less H2O & Exempt Solvents                             | 0 g/l [Test Method: calculated SCAQMD rule 443.1] [Details:  |  |  |
|  | when used as intended with Part A]   |  |  |
| VOC Less H2O & Exempt Solvents                             | 0 g/l [ <i>Test Method:</i> calculated SCAQMD rule 443.1] [ <i>Details:</i> as supplied]                     |  |  |
| VOC Less H2O & Exempt Solvents                             | 0 % [ <i>Test Method:</i> calculated SCAQMD rule 443.1] [ <i>Details:</i> when used as intended with Part A] |  |  |

# **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** None known. **Condition** 

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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:

No health effects are expected.

#### 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   |
|--|-------------|---------|---|
| Overall product                        | Dermal      |         | No data available; calculated ATE > 5,000 mg/kg |
| Overall product                        | Ingestion   |         | No data available; calculated ATE > 5,000 mg/kg |
| Epoxy Resin                            | Dermal      | Rat     | LD50 > 1,600 mg/kg                              |
| Epoxy Resin                            | Ingestion   | Rat     | LD50 > 1,000 mg/kg                              |
| Methacrylate/Butadiene/Styrene Polymer | Dermal      | Rabbit  | LD50 > 5,000 mg/kg                              |
| Methacrylate/Butadiene/Styrene Polymer | Ingestion   | Rat     | LD50 > 5,000 mg/kg                              |
| Hydrogenated Terphenyl                 | Dermal      | Rabbit  | LD50 6,800 mg/kg                                |
| Hydrogenated Terphenyl                 | Inhalation- | Rat     | LC50 > 11.1 mg/l                                |
|  | Dust/Mist   |         |   |
|  | (4 hours)   |         |   |
| Hydrogenated Terphenyl                 | Ingestion   | Rat     | LD50 > 10,000 mg/kg                             |
| Amorphous Silica                       | Dermal      | Rabbit  | LD50 > 5,000 mg/kg                              |
| Amorphous Silica                       | Inhalation- | Rat     | LC50 > 0.691 mg/l                               |
|  | Dust/Mist   |         |   |
|  | (4 hours)   |         |   |
| Amorphous Silica                       | Ingestion   | Rat     | LD50 > 5,110  mg/kg                             |

ATE = acute toxicity estimate

#### Skin Corrosion/Irritation

| Name                                   | Species   | Value              |
|--|-----------|--------------------|
| Epoxy Resin                            | Rabbit    | Mild irritant      |
| Methacrylate/Butadiene/Styrene Polymer | Professio | Minimal irritation |

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|                        | nal<br>judgeme<br>nt |                           |
|------------------------|----------------------|---------------------------|
| Hydrogenated Terphenyl | Rabbit               | No significant irritation |
| Amorphous Silica       | Rabbit               | No significant irritation |

### Serious Eye Damage/Irritation

| Name                                   | Species   | Value                     |
|--|-----------|---------------------------|
| Epoxy Resin                            | Rabbit    | Moderate irritant         |
| Methacrylate/Butadiene/Styrene Polymer | Professio | Mild irritant             |
|  | nal       |                           |
|  | judgeme   |                           |
|  | nt        |                           |
| Hydrogenated Terphenyl                 | Rabbit    | No significant irritation |
| Amorphous Silica                       | Rabbit    | No significant irritation |

### **Skin Sensitization**

| Name                   | Species                | Value           |
|------------------------|------------------------|-----------------|
| Epoxy Resin            | Human<br>and<br>animal | Sensitizing     |
| Hydrogenated Terphenyl | Human                  | Not sensitizing |
| Amorphous Silica       | Human<br>and<br>animal | Not sensitizing |

### **Respiratory Sensitization**

| Name        | Species | Value  |
|-------------|---------|--|
| Epoxy Resin | Human   | Some positive data exist, but the data are not sufficient for classification |

# 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                  |
| Hydrogenated Terphenyl | In vivo  | Not mutagenic                                  |
| Amorphous Silica       | In Vitro | Not mutagenic                                  |

# Carcinogenicity

| Name             | Route     | Species | Value  |
|------------------|-----------|---------|--|
| Epoxy Resin      | Dermal    | Mouse   | Some positive data exist, but the data are not |
|                  |           |         | sufficient for classification                  |
| Amorphous Silica | Not       | Mouse   | Some positive data exist, but the data are not |
|                  | Specified |         | sufficient for classification                  |

# **Reproductive Toxicity**

# **Reproductive and/or Developmental Effects**

| Name                   | Route     | Value                            | Species | Test Result            | Exposure<br>Duration        |
|------------------------|-----------|----------------------------------|---------|------------------------|-----------------------------|
| Epoxy Resin            | Ingestion | Not toxic to female reproduction | Rat     | NOAEL 750<br>mg/kg/day | 2 generation                |
| Epoxy Resin            | Ingestion | Not toxic to male reproduction   | Rat     | NOAEL 750<br>mg/kg/day | 2 generation                |
| Epoxy Resin            | Dermal    | Not toxic to development         | Rabbit  | NOAEL 300<br>mg/kg/day | during<br>organogenesi<br>s |
| Epoxy Resin            | Ingestion | Not toxic to development         | Rat     | NOAEL 750<br>mg/kg/day | 2 generation                |
| Hydrogenated Terphenyl | Ingestion | Not toxic to female reproduction | Rat     | NOAEL 81               | 2 generation                |

### 3M<sup>TM</sup> Scotch-Weld<sup>TM</sup> Epoxy Adhesive DP110 Translucent, Part B 04/16/15

|                        |           |  |     | mg/kg/day                   |                             |
|------------------------|-----------|--|-----|-----------------------------|-----------------------------|
| Hydrogenated Terphenyl | Ingestion | Not toxic to male reproduction   | Rat | NOAEL 62<br>mg/kg/day       | 2 generation                |
| Hydrogenated Terphenyl | Ingestion | Some positive developmental data exist,<br>but the data are not sufficient for<br>classification | Rat | NOAEL 500<br>mg/kg/day      | 2 generation                |
| Amorphous Silica       | Ingestion | Not toxic to female reproduction   | Rat | NOAEL 509<br>mg/kg/day      | 1 generation                |
| Amorphous Silica       | Ingestion | Not toxic to male reproduction   | Rat | NOAEL 497<br>mg/kg/day      | 1 generation                |
| Amorphous Silica       | Ingestion | Not toxic to development   | Rat | NOAEL<br>1,350<br>mg/kg/day | during<br>organogenesi<br>s |

### 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.

| Name                   | Route      | Target Organ(s)  | Value  | Species | Test Result                 | Exposure<br>Duration    |
|------------------------|------------|--|--|---------|-----------------------------|-------------------------|
| Epoxy Resin            | Dermal     | liver  | Some positive data exist, but the data are not sufficient for classification | Rat     | NOAEL<br>1,000<br>mg/kg/day | 2 years                 |
| Epoxy Resin            | Dermal     | nervous system   | All data are negative  | Rat     | NOAEL<br>1,000<br>mg/kg/day | 13 weeks                |
| Epoxy Resin            | Ingestion  | auditory system  <br>heart   endocrine<br>system  <br>hematopoietic<br>system   liver   eyes<br>  kidney and/or<br>bladder | All data are negative  | Rat     | NOAEL<br>1,000<br>mg/kg/day | 28 days                 |
| Hydrogenated Terphenyl | Inhalation | liver  | Some positive data exist, but the data are not sufficient for classification | Rat     | NOAEL 0.5<br>mg/l           | 90 days                 |
| Hydrogenated Terphenyl | Ingestion  | endocrine system  <br>blood   liver  <br>kidney and/or<br>bladder  | Some positive data exist, but the data are not sufficient for classification | Rat     | NOAEL 144<br>mg/kg/day      | 14 weeks                |
| Amorphous Silica       | Inhalation | respiratory system  <br>silicosis  | All data are negative  | Human   | NOAEL Not<br>available      | occupationa<br>exposure |

#### Specific Target Organ Toxicity - repeated exposure

#### **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. 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.

# **311/312 Hazard Categories:**

Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No Immediate Hazard - Yes Delayed Hazard - No

# **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.

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.

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# **SECTION 1: Identification**

# 1.1. Product identifier

3M<sup>™</sup> Scotch-Weld<sup>™</sup> Epoxy Adhesive DP110 Translucent, Part A

**Product Identification Numbers** DP-110

### 1.2. Recommended use and restrictions on use

**Recommended use** Structural adhesive

| 1.3. Supplier's details |   |  |
|-------------------------|---|--|
| MANUFACTURER:           | 3M                                      |  |
| DIVISION:               | Industrial Adhesives and Tapes 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 2A. Skin Corrosion/Irritation: Category 2. Skin Sensitizer: Category 1A.

2.2. Label elements Signal word Warning

**Symbols** Exclamation mark |

Pictograms

10/28/16



Hazard Statements Causes serious eye irritation. Causes skin irritation. May cause an allergic skin reaction.

### **Precautionary Statements**

# **Prevention:**

Avoid breathing dust/fume/gas/mist/vapors/spray. Wear protective gloves and eye/face protection. 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.
Take off contaminated clothing and wash it before reuse.

### **Disposal:**

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

### 2.3. Hazards not otherwise classified

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

2% of the mixture consists of ingredients of unknown acute oral toxicity.2% of the mixture consists of ingredients of unknown acute dermal toxicity.

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

| Ingredient   | C.A.S. No.    | % by Wt                |
|--|---------------|------------------------|
| Mercaptan Polymer (NJTS Reg. No. 04499600-6776)    | Trade Secret* | 40 - 80 Trade Secret * |
| Polyamide Resin                                    | 68410-23-1    | 5 - 30 Trade Secret *  |
| Modified Epoxy Resin (NJTS Reg. No. 04499600-6838) | Trade Secret* | 10 - 30 Trade Secret * |
| Hydrogenated Terphenyl                             | 61788-32-7    | 5 - 10 Trade Secret *  |
| 2,4,6-tris[(Dimethylamino)Methyl]Phenol            | 90-72-2       | 1 - 5 Trade Secret *   |
| Hydrogenated Polyphenyls                           | 68956-74-1    | < 2 Trade Secret *     |
| Triethylenetetramine                               | 112-24-3      | < 1.5 Trade Secret *   |

NJTS or NJTSRN: New Jersey Trade Secret Registry Number.

\*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

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 |
| Hydrocarbons                  | During Combustion |
| Carbon monoxide               | During Combustion |
| Carbon dioxide                | During Combustion |
| Ketones                       | During Combustion |
| Oxides of Nitrogen            | During Combustion |
| Oxides of Sulfur              | During Combustion |
| Toxic Vapor, Gas, Particulate | During Combustion |
|                               |                   |

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

No special protective actions for fire-fighters are anticipated.

# **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.

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

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.

# **SECTION 7: Handling and storage**

# 7.1. Precautions for safe handling

For industrial or professional use only. 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 acids. Store away from strong bases. 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.

| C.A.S. No. | Agency                 | Limit type         | <b>Additional Comments</b>  |
|------------|------------------------|--------------------|---|
| 112-24-3   | AIHA                   | TWA:6 mg/m3(1 ppm) | SKIN  |
| 61788-32-7 | ACGIH                  | TWA:0.5 ppm        |   |
|            | 112-24-3<br>61788-32-7 | 112-24-3 AIHA      | 112-24-3         AIHA         TWA:6 mg/m3(1 ppm)           61788-32-7         ACGIH         TWA:0.5 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: Indirect Vented Goggles

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.

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|---|----------|
|---|----------|

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

#### **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

| .1. Information on dasic physical and chemical prope | erues  |
|--|--|
| General Physical Form:                               | Liquid   |
| Specific Physical Form:                              | Paste  |
| Odor, Color, Grade:                                  | Translucent, slight odor.                                      |
| Odor threshold                                       | No Data Available  |
| рН   | Not Applicable   |
| Melting point  | No Data Available  |
| Boiling Point  | >=185 °C   |
| Flash Point  | >=365 °F [ <i>Test Method:</i> Closed Cup]                     |
| Evaporation rate                                     | Not Applicable   |
| Flammability (solid, gas)                            | Not Applicable   |
| Flammable Limits(LEL)                                | Not Applicable   |
| Flammable Limits(UEL)                                | Not Applicable   |
| Vapor Pressure                                       | Not Applicable   |
| Vapor Density  | Not Applicable   |
| Density  | 1.1 g/ml   |
| Specific Gravity                                     | 1.1 [ <i>Ref Std</i> : WATER=1]                                |
| Solubility in Water                                  | Nil  |
| 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  | 30,000 - 70,000 centipoise [@ 73.4 °F]                         |
| Hazardous Air Pollutants                             | 0 % weight [ <i>Test Method:</i> Calculated]                   |
| Molecular weight                                     | No Data Available  |
| VOC Less H2O & Exempt Solvents                       | 0 g/l [Test Method: calculated SCAQMD rule 443.1] [Details:    |
|  | when used as intended with Part B]                             |
| VOC Less H2O & Exempt Solvents                       | 0 g/l [Test Method: calculated SCAQMD rule 443.1] [Details: as |
|  | supplied]  |
| VOC Less H2O & Exempt Solvents                       | 0 % [Test Method: calculated SCAQMD rule 443.1] [Details:      |
|  | when used as intended with Part B]                             |
|  |  |

# **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.

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#### 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

#### **10.4.** Conditions to avoid

Heat is generated during cure. Do not cure a mass larger than 50 grams in a confined space to prevent a premature exothermic reaction with production of intense heat and smoke.

# **10.5. Incompatible materials**

Strong oxidizing agents Strong acids Strong bases

# 10.6. Hazardous decomposition products Substance

Condition

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:**

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:**

May be harmful if swallowed.

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

#### **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**

| Route       | Species   | Value  |
|-------------|---|--|
| Dermal      |   | No data available; calculated ATE > 5,000 mg/kg  |
| Ingestion   |   | No data available; calculated ATE 2,000 - 5,000  |
|             |   | mg/kg  |
| Dermal      | Rabbit  | LD50 > 10,200 mg/kg  |
| Ingestion   | Rat   | LD50 2,600 mg/kg   |
| Dermal      | Rat   | LD50 > 2,000 mg/kg   |
| Ingestion   | Rat   | LD50 > 2,000 mg/kg   |
| Dermal      | Rabbit  | LD50 6,800 mg/kg   |
| Inhalation- | Rat   | LC50 > 11.1 mg/l   |
| Dust/Mist   |   |  |
| (4 hours)   |   |  |
| Ingestion   | Rat   | LD50 > 10,000 mg/kg  |
| Dermal      | Rat   | LD50 1,280 mg/kg   |
| Ingestion   | Rat   | LD50 1,000 mg/kg   |
| Dermal      | Rabbit  | LD50 550 mg/kg   |
| Ingestion   | Rat   | LD50 2,500 mg/kg   |
|             | Dermal       Ingestion       Dermal       Ingestion       Dermal       Ingestion       Dermal       Inhalation-       Dust/Mist       (4 hours)       Ingestion       Dermal       Ingestion       Dermal | Dermal       Ingestion       Dermal     Rabbit       Ingestion     Rat       Dermal     Rat       Dermal     Rat       Ingestion     Rat       Ingestion     Rat       Dermal     Rat       Instant     Rabbit       Inhalation-     Rat       Dust/Mist     (4 hours)       Ingestion     Rat       Dermal     Rat       Dermal     Rat       Dermal     Rat       Dermal     Rat       Dermal     Rat       Dermal     Rat |

ATE = acute toxicity estimate

#### Skin Corrosion/Irritation

| Name                                    | Species | Value                     |
|---|---------|---------------------------|
|   |         |                           |
| Polyamide Resin                         | similar | Irritant                  |
|   | compoun |                           |
|   | ds      |                           |
| Hydrogenated Terphenyl                  | Rabbit  | No significant irritation |
| 2,4,6-tris[(Dimethylamino)Methyl]Phenol | Rabbit  | Corrosive                 |
| Triethylenetetramine                    | Rabbit  | Corrosive                 |

### Serious Eye Damage/Irritation

| Name                                    | Species | Value                     |
|---|---------|---------------------------|
|   |         |                           |
| Polyamide Resin                         | similar | Corrosive                 |
|   | compoun |                           |
|   | ds      |                           |
| Hydrogenated Terphenyl                  | Rabbit  | No significant irritation |
| 2,4,6-tris[(Dimethylamino)Methyl]Phenol | Rabbit  | Corrosive                 |
| Triethylenetetramine                    | Rabbit  | Corrosive                 |

# **Skin Sensitization**

| Name                                    | Species | Value  |
|---|---------|--|
| Polyamide Resin                         | Mouse   | Sensitizing                                    |
| Hydrogenated Terphenyl                  | Human   | Not sensitizing                                |
| 2,4,6-tris[(Dimethylamino)Methyl]Phenol | Guinea  | Some positive data exist, but the data are not |
|   | pig     | sufficient for classification                  |
| Triethylenetetramine                    | Guinea  | Sensitizing                                    |
|   | pig     |  |

# **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         |
|---|----------|---------------|
|   |          |               |
| Hydrogenated Terphenyl                  | In vivo  | Not mutagenic |
| 2,4,6-tris[(Dimethylamino)Methyl]Phenol | In Vitro | Not mutagenic |

#### Carcinogenicity

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

### **Reproductive Toxicity**

#### **Reproductive and/or Developmental Effects**

| Name                   | Route     | Value  | Species | Test Result            | Exposure<br>Duration |
|------------------------|-----------|--|---------|------------------------|----------------------|
| Hydrogenated Terphenyl | Ingestion | Not toxic to female reproduction   | Rat     | NOAEL 81<br>mg/kg/day  | 2 generation         |
| Hydrogenated Terphenyl | Ingestion | Not toxic to male reproduction   | Rat     | NOAEL 62<br>mg/kg/day  | 2 generation         |
| Hydrogenated Terphenyl | Ingestion | Some positive developmental data exist,<br>but the data are not sufficient for<br>classification | Rat     | NOAEL 500<br>mg/kg/day | 2 generation         |

# Target Organ(s)

#### Specific Target Organ Toxicity - single exposure

| Name                                  | Route      | Target Organ(s)        | Value   | Species           | Test Result            | Exposure |
|---------------------------------------|------------|------------------------|---|-------------------|------------------------|----------|
|                                       |            |                        |   |                   |                        | Duration |
| Polyamide Resin                       | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for | similar<br>health | NOAEL Not<br>available |          |
| 2,4,6-                                | Inhalation | respiratory irritation | classification<br>Some positive data exist, but the           | hazards           | NOAEL Not              |          |
| tris[(Dimethylamino)Meth<br>yl]Phenol |            | 1 5                    | data are not sufficient for classification                    |                   | available              |          |

# Specific Target Organ Toxicity - repeated exposure

| Name  | Route      | Target Organ(s)  | Value  | Species | Test Result            | Exposure<br>Duration |
|---|------------|--|--|---------|------------------------|----------------------|
| Hydrogenated Terphenyl                          | Inhalation | liver  | Some positive data exist, but the data are not sufficient for classification | Rat     | NOAEL 0.5<br>mg/l      | 90 days              |
| Hydrogenated Terphenyl                          | Ingestion  | endocrine system  <br>blood   liver   kidney<br>and/or bladder | Some positive data exist, but the data are not sufficient for classification | Rat     | NOAEL 144<br>mg/kg/day | 14 weeks             |
| 2,4,6-<br>tris[(Dimethylamino)Meth<br>yl]Phenol | Dermal     | skin   liver   nervous<br>system                               | Some positive data exist, but the data are not sufficient for classification | Rat     | NOAEL 125<br>mg/kg/day | 28 days              |
| 2,4,6-<br>tris[(Dimethylamino)Meth<br>yl]Phenol | Dermal     | auditory system  <br>hematopoietic<br>system   eyes            | All data are negative  | Rat     | NOAEL 125<br>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. 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.

### 311/312 Hazard Categories:

| Fire Hazard - No | Pressure Hazard - No | Reactivity Hazard - No | Immediate Hazard - Yes | Delayed Hazard - |
|------------------|----------------------|------------------------|------------------------|------------------|
| Yes              |                      |                        |                        |                  |

### 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.

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: 1 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.

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|-----------------|-----------|------------------|----------|
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