



## Safety Data Sheet

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|                        |           |                         |          |
|------------------------|-----------|-------------------------|----------|
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### SECTION 1: Identification

#### 1.1. Product identifier

3M™ Scotch-Weld™ Structural Adhesive Film AF 131-2

#### Product Identification Numbers

62-3157-3905-2, 62-3157-5305-3, 62-3157-5505-8, 62-3157-5506-6, 62-3165-5105-0, 62-3165-5106-8, 62-3165-5155-5  
7000000841, 7000046427

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

##### Recommended use

Structural Adhesive Film

#### 1.3. Supplier's details

|                      |   |
|----------------------|---|
| <b>MANUFACTURER:</b> | 3M  |
| <b>DIVISION:</b>     | Automotive and Aerospace Solutions Division |
| <b>ADDRESS:</b>      | 3M Center, St. Paul, MN 55144-1000, USA     |
| <b>Telephone:</b>    | 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.  
Reproductive Toxicity: Category 1B.  
Reproductive Toxicity: Lactation.  
Germ Cell Mutagenicity: Category 2.  
Specific Target Organ Toxicity (single exposure): Category 1.  
Specific Target Organ Toxicity (repeated exposure): Category 1.

#### 2.2. Label elements

##### Signal word

Danger

##### Symbols

Exclamation mark | Health Hazard |

**Pictograms****Hazard Statements**

Harmful if swallowed.

May damage fertility or the unborn child.

May cause harm to breast-fed children.

Suspected of causing genetic defects.

Causes damage to organs:

blood or blood-forming organs |

liver |

Causes damage to organs through prolonged or repeated exposure:

blood or blood-forming organs |

liver |

May cause damage to organs through prolonged or repeated exposure:

nervous system |

**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.

Avoid contact during pregnancy/while nursing.

Wear protective gloves.

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

Wash thoroughly after handling.

**Response:**

Rinse mouth.

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

IF exposed or concerned: Get medical advice/attention.

Specific treatment (see Notes to Physician on this label).

**Storage:**

Store locked up.

**Disposal:**

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

**Notes to Physician:**

Overexposure to this product may result in methemoglobinemia. Methemoglobinemia may be clinically suspected by the presence of clinical "cyanosis" in the presence of a normal PaO<sub>2</sub> (as obtained by arterial blood gases). Routine pulse oximetry may be inaccurate for monitoring oxygen saturation in the presence of methemoglobinemia, and should not be used to make the diagnosis of this disorder. If the patient is symptomatic or if the methemoglobin level is >20%, specific therapy with methylene blue should be considered as part of the medical management.

97% of the mixture consists of ingredients of unknown acute inhalation toxicity.

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

| Ingredient                                      | C.A.S. No.    | % by Wt                |
|---|---------------|------------------------|
| P,P'-DIAMINODIPHENYL SULFONE                    | 80-08-0       | 15 - 40 Trade Secret * |
| EPOXY RESIN B                                   | Trade Secret* | 20 - 40 Trade Secret * |
| EPOXY RESIN A                                   | 5026-74-4     | 10 - 30 Trade Secret * |
| EPOXY RESIN C                                   | 25068-38-6    | < 10 Trade Secret *    |
| AMORPHOUS SILICA                                | 112945-52-5   | 0.5 - 3                |
| DIMETHYL SILOXANE, REACTION PRODUCT WITH SILICA | 67762-90-7    | 0.5 - 2.5              |
| Methyl Ethyl Ketone                             | 78-93-3       | <= 0.9 Trade Secret *  |

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

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

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

**Skin Contact:**

Wash with soap and water. If you feel unwell, get medical attention.

**Eye Contact:**

If exposed, flush eyes with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. If signs/symptoms develop, 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**

Target organ effects. See Section 11 for additional details. Target organ effects following prolonged or repeated exposure. See Section 11 for additional details.

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

Overexposure to this product may result in methemoglobinemia. Methemoglobinemia may be clinically suspected by the presence of clinical "cyanosis" in the presence of a normal PaO<sub>2</sub> (as obtained by arterial blood gases). Routine pulse oximetry may be inaccurate for monitoring oxygen saturation in the presence of methemoglobinemia, and should not be used to make the diagnosis of this disorder. If the patient is symptomatic or if the methemoglobin level is >20%, specific therapy with methylene blue should be considered as part of the medical management.

**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. Non-combustible. Use a fire fighting agent suitable for surrounding fire.

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

Closed containers exposed to heat from fire may build pressure and explode.

**Hazardous Decomposition or By-Products****Substance****Condition**

|                    |                   |
|--------------------|-------------------|
| Aldehydes          | During Combustion |
| Carbon monoxide    | During Combustion |
| Carbon dioxide     | During Combustion |
| Hydrogen Chloride  | During Combustion |
| Oxides of Nitrogen | During Combustion |
| Oxides of Sulfur   | 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. 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

Collect as much of the spilled material as possible. Place in a closed container approved for transportation by appropriate authorities. Clean up residue. 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. 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. Avoid contact during pregnancy/while nursing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid release to the environment. Use personal protective equipment (gloves, respirators, etc.) as required.

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

No special storage requirements.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limits

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 |
|------------------------------|-------------|-------------------------|--|---------------------|
| SILICA, AMORPHOUS            | 112945-52-5 | OSHA                    | TWA:20 millions of particles/cu. ft.;TWA concentration:0.8 mg/m <sup>3</sup> |                     |
| SILICA, AMORPHOUS            | 67762-90-7  | OSHA                    | TWA:20 millions of particles/cu. ft.;TWA concentration:0.8 mg/m <sup>3</sup> |                     |
| Methyl Ethyl Ketone          | 78-93-3     | ACGIH                   | TWA:200 ppm;STEL:300 ppm   |                     |
| Methyl Ethyl Ketone          | 78-93-3     | OSHA                    | TWA:590 mg/m <sup>3</sup> (200 ppm)  |                     |
| P,P'-DIAMINODIPHENYL SULFONE | 80-08-0     | Manufacturer determined | TWA:0.1 mg/m <sup>3</sup>  |                     |

ACGIH : American Conference of Governmental Industrial Hygienists  
 AIHA : American Industrial Hygiene Association  
 CMRG : Chemical Manufacturer's Recommended Guidelines  
 OSHA : United States Department of Labor - Occupational Safety and Health Administration  
 TWA: Time-Weighted-Average  
 STEL: Short Term Exposure Limit  
 CEIL: Ceiling

**8.2. Exposure controls**

**8.2.1. Engineering controls**

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

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

**Eye/face protection**

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

**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**

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**

**Appearance**

|                       |       |
|-----------------------|-------|
| <b>Physical state</b> | Solid |
| <b>Color</b>          | Tan   |

**Specific Physical Form:**

Film

**Odor**

Odorless

**Odor threshold**

*No Data Available*

**pH**

*Not Applicable*

**Melting point**

*No Data Available*

**Boiling Point**

*Not Applicable*

**Flash Point**

No flash point

**Evaporation rate**

*Not Applicable*

**Flammability (solid, gas)**

Not Classified

**Flammable Limits(LEL)**

*Not Applicable*

**Flammable Limits(UEL)**

*Not Applicable*

|   |                                 |
|---|---------------------------------|
| Vapor Pressure                              | <i>Not Applicable</i>           |
| Vapor Density                               | <i>Not Applicable</i>           |
| Density                                     | .96 g/cm <sup>3</sup> [@ 20 °C] |
| Specific Gravity                            | 0.96 [Ref Std: WATER=1]         |
| Solubility in Water                         | Nil                             |
| Solubility- non-water                       | <i>No Data Available</i>        |
| Partition coefficient: n-octanol/ water     | <i>Not Applicable</i>           |
| Autoignition temperature                    | <i>Not Applicable</i>           |
| Decomposition temperature                   | <i>No Data Available</i>        |
| Viscosity                                   | <i>Not Applicable</i>           |
| Molecular weight                            | <i>No Data Available</i>        |
| Volatile Organic Compounds                  | <i>No Data Available</i>        |
| Percent volatile                            | Negligible                      |
| VOC Less H <sub>2</sub> O & Exempt Solvents | <i>No Data Available</i>        |

## 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 may occur.

### 10.4. Conditions to avoid

Avoid curing large quantities of material to prevent a premature reaction (exotherm) with production of intense heat and smoke.

### 10.5. Incompatible materials

None known.

### 10.6. Hazardous decomposition products

#### Substance

None known.

#### Condition

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:

May be harmful if inhaled. Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge,

headache, hoarseness, and nose and throat pain.

**Skin Contact:**

May be harmful in contact with skin.

**Eye Contact:**

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

**Ingestion:**

Harmful if swallowed. Physical Blockage: Signs/symptoms may include cramping, abdominal pain, and constipation.

May cause additional health effects (see below).

**Additional Health Effects:**

**Single exposure may cause target organ effects:**

Methemoglobinemia: Signs/symptoms may include headache, dizziness, nausea, difficulty breathing, and generalized weakness.

Liver Effects: Signs/symptoms may include loss of appetite, weight loss, fatigue, weakness, abdominal tenderness and jaundice.

Blood Effects: Signs/symptoms may include generalized weakness and fatigue, skin pallor, changes in blood clotting time, internal bleeding, and/or hemoglobinemia.

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

Liver Effects: Signs/symptoms may include loss of appetite, weight loss, fatigue, weakness, abdominal tenderness and jaundice.

Blood Effects: Signs/symptoms may include generalized weakness and fatigue, skin pallor, changes in blood clotting time, internal bleeding, and/or hemoglobinemia.

Neurological Effects: Signs/symptoms may include personality changes, lack of coordination, sensory loss, tingling or numbness of the extremities, weakness, tremors, and/or changes in blood pressure and heart rate.

**Reproductive/Developmental Toxicity:**

Contains a chemical or chemicals which can cause birth defects or other reproductive harm. Contains a chemical or chemicals which may interfere with lactation or be harmful to breastfed children.

**Genotoxicity:**

Genotoxicity and Mutagenicity: May interact with genetic material and possibly alter gene expression.

**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 >2,000 - =5,000 mg/kg |
| Overall product | Inhalation-Dust/Mist(4 hr) |               | No data available; calculated ATE >5 - =12.5 mg/l       |
| Overall product | Ingestion                  |               | No data available; calculated ATE >300 - =2,000 mg/kg   |
| EPOXY RESIN B   | Ingestion                  | Not available | LD50 > 2,000 mg/kg                                      |

|   |                                |                        |                     |
|---|--------------------------------|------------------------|---------------------|
| EPOXY RESIN B                                   | Dermal                         | Rabbit                 | LD50 > 3,000 mg/kg  |
| P,P'-DIAMINODIPHENYL SULFONE                    | Ingestion                      | Professional judgement | LD50 250 mg/kg      |
| P,P'-DIAMINODIPHENYL SULFONE                    | Dermal                         | Rabbit                 | LD50 > 2,000 mg/kg  |
| EPOXY RESIN A                                   | Dermal                         | Rabbit                 | LD50 > 4,000 mg/kg  |
| EPOXY RESIN A                                   | Ingestion                      | Rat                    | LD50 500-5000 mg/kg |
| EPOXY RESIN C                                   | Dermal                         | Rat                    | LD50 > 1,600 mg/kg  |
| EPOXY RESIN C                                   | Ingestion                      | Rat                    | LD50 > 1,000 mg/kg  |
| AMORPHOUS SILICA                                | Dermal                         | Rabbit                 | LD50 > 5,000 mg/kg  |
| AMORPHOUS SILICA                                | Inhalation-Dust/Mist (4 hours) | Rat                    | LC50 > 0.691 mg/l   |
| AMORPHOUS SILICA                                | Ingestion                      | Rat                    | LD50 > 5,110 mg/kg  |
| DIMETHYL SILOXANE, REACTION PRODUCT WITH SILICA | Dermal                         | Rabbit                 | LD50 > 5,000 mg/kg  |
| DIMETHYL SILOXANE, REACTION PRODUCT WITH SILICA | Inhalation-Dust/Mist (4 hours) | Rat                    | LC50 > 0.691 mg/l   |
| DIMETHYL SILOXANE, REACTION PRODUCT WITH SILICA | Ingestion                      | Rat                    | LD50 > 5,110 mg/kg  |
| Methyl Ethyl Ketone                             | Dermal                         | Rabbit                 | LD50 > 8,050 mg/kg  |
| Methyl Ethyl Ketone                             | Inhalation-Vapor (4 hours)     | Rat                    | LC50 34.5 mg/l      |
| Methyl Ethyl Ketone                             | Ingestion                      | Rat                    | LD50 2,737 mg/kg    |

ATE = acute toxicity estimate

#### Skin Corrosion/Irritation

| Name  | Species                 | Value                     |
|---|-------------------------|---------------------------|
| Overall product                                 | Multiple animal species | No significant irritation |
| EPOXY RESIN B                                   | Professional judgement  | Mild irritant             |
| P,P'-DIAMINODIPHENYL SULFONE                    | Rabbit                  | No significant irritation |
| EPOXY RESIN A                                   | Rabbit                  | Irritant                  |
| EPOXY RESIN C                                   | Rabbit                  | Mild irritant             |
| AMORPHOUS SILICA                                | Rabbit                  | No significant irritation |
| DIMETHYL SILOXANE, REACTION PRODUCT WITH SILICA | Rabbit                  | No significant irritation |
| Methyl Ethyl Ketone                             | Rabbit                  | Minimal irritation        |

#### Serious Eye Damage/Irritation

| Name  | Species                | Value                     |
|---|------------------------|---------------------------|
| EPOXY RESIN B                                   | Professional judgement | Moderate irritant         |
| P,P'-DIAMINODIPHENYL SULFONE                    | In vitro data          | No significant irritation |
| EPOXY RESIN A                                   | Rabbit                 | Severe irritant           |
| EPOXY RESIN C                                   | Rabbit                 | Moderate irritant         |
| AMORPHOUS SILICA                                | Rabbit                 | No significant irritation |
| DIMETHYL SILOXANE, REACTION PRODUCT WITH SILICA | Rabbit                 | No significant irritation |
| Methyl Ethyl Ketone                             | Rabbit                 | Severe irritant           |

#### Skin Sensitization

| Name            | Species | Value          |
|-----------------|---------|----------------|
| Overall product | Guinea  | Not classified |



|   | pig               |                |
|---|-------------------|----------------|
| EPOXY RESIN B                                   | similar compounds | Not classified |
| P,P'-DIAMINODIPHENYL SULFONE                    | Mouse             | Not classified |
| EPOXY RESIN A                                   | Guinea pig        | Sensitizing    |
| EPOXY RESIN C                                   | Human and animal  | Sensitizing    |
| AMORPHOUS SILICA                                | Human and animal  | Not classified |
| DIMETHYL SILOXANE, REACTION PRODUCT WITH SILICA | Human and animal  | Not classified |

### Respiratory Sensitization

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

### Germ Cell Mutagenicity

| Name  | Route    | Value  |
|---|----------|--|
| EPOXY RESIN B                                   | In Vitro | Not mutagenic  |
| P,P'-DIAMINODIPHENYL SULFONE                    | In vivo  | Not mutagenic  |
| P,P'-DIAMINODIPHENYL SULFONE                    | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| EPOXY RESIN A                                   | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| EPOXY RESIN A                                   | In vivo  | Mutagenic  |
| EPOXY RESIN C                                   | In vivo  | Not mutagenic  |
| EPOXY RESIN C                                   | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| AMORPHOUS SILICA                                | In Vitro | Not mutagenic  |
| DIMETHYL SILOXANE, REACTION PRODUCT WITH SILICA | In Vitro | Not mutagenic  |
| Methyl Ethyl Ketone                             | In Vitro | Not mutagenic  |

### Carcinogenicity

| Name  | Route         | Species                 | Value  |
|---|---------------|-------------------------|--|
| P,P'-DIAMINODIPHENYL SULFONE                    | Ingestion     | Multiple animal species | Some positive data exist, but the data are not sufficient for classification |
| EPOXY RESIN C                                   | Dermal        | Mouse                   | Some positive data exist, but the data are not sufficient for classification |
| AMORPHOUS SILICA                                | Not Specified | Mouse                   | Some positive data exist, but the data are not sufficient for classification |
| DIMETHYL SILOXANE, REACTION PRODUCT WITH SILICA | Not Specified | Mouse                   | Some positive data exist, but the data are not sufficient for classification |
| Methyl Ethyl Ketone                             | Inhalation    | Human                   | Not carcinogenic   |

### Reproductive Toxicity

#### Reproductive and/or Developmental Effects

| Name                         | Route     | Value                                  | Species | Test Result         | Exposure Duration    |
|------------------------------|-----------|--|---------|---------------------|----------------------|
| P,P'-DIAMINODIPHENYL SULFONE | Ingestion | Not classified for female reproduction | Rat     | NOAEL 30 mg/kg/day  | 2 generation         |
| P,P'-DIAMINODIPHENYL SULFONE | Ingestion | Not classified for development         | Mouse   | NOAEL 100 mg/kg/day | during organogenesis |
| P,P'-DIAMINODIPHENYL SULFONE | Ingestion | Toxic to male reproduction             | Rat     | LOAEL 7.5           | 2 generation         |

|   |            |  |        | mg/kg/day             |                      |
|---|------------|--|--------|-----------------------|----------------------|
| EPOXY RESIN C                                   | Ingestion  | Not classified for female reproduction | Rat    | NOAEL 750 mg/kg/day   | 2 generation         |
| EPOXY RESIN C                                   | Ingestion  | Not classified for male reproduction   | Rat    | NOAEL 750 mg/kg/day   | 2 generation         |
| EPOXY RESIN C                                   | Dermal     | Not classified for development         | Rabbit | NOAEL 300 mg/kg/day   | during organogenesis |
| EPOXY RESIN C                                   | Ingestion  | Not classified for development         | Rat    | NOAEL 750 mg/kg/day   | 2 generation         |
| AMORPHOUS SILICA                                | Ingestion  | Not classified for female reproduction | Rat    | NOAEL 509 mg/kg/day   | 1 generation         |
| AMORPHOUS SILICA                                | Ingestion  | Not classified for male reproduction   | Rat    | NOAEL 497 mg/kg/day   | 1 generation         |
| AMORPHOUS SILICA                                | Ingestion  | Not classified for development         | Rat    | NOAEL 1,350 mg/kg/day | during organogenesis |
| DIMETHYL SILOXANE, REACTION PRODUCT WITH SILICA | Ingestion  | Not classified for female reproduction | Rat    | NOAEL 509 mg/kg/day   | 1 generation         |
| DIMETHYL SILOXANE, REACTION PRODUCT WITH SILICA | Ingestion  | Not classified for male reproduction   | Rat    | NOAEL 497 mg/kg/day   | 1 generation         |
| DIMETHYL SILOXANE, REACTION PRODUCT WITH SILICA | Ingestion  | Not classified for development         | Rat    | NOAEL 1,350 mg/kg/day | during organogenesis |
| Methyl Ethyl Ketone                             | Inhalation | Not classified for development         | Rat    | LOAEL 8.8 mg/l        | during gestation     |

### Lactation

| Name                         | Route     | Species | Value                              |
|------------------------------|-----------|---------|------------------------------------|
| P,P'-DIAMINODIPHENYL SULFONE | Ingestion | Human   | Causes 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      |
|------------------------------|------------|-----------------------------------|--|-------------------------|---------------------|------------------------|
| EPOXY RESIN B                | Inhalation | respiratory irritation            | Some positive data exist, but the data are not sufficient for classification | similar health hazards  | NOAEL Not Available |                        |
| P,P'-DIAMINODIPHENYL SULFONE | Ingestion  | blood   methemoglobinemia   liver | Causes damage to organs  | Human                   | NOAEL Not available | poisoning and/or abuse |
| P,P'-DIAMINODIPHENYL SULFONE | Ingestion  | central nervous system depression | Not classified   | Human                   | NOAEL Not available | poisoning and/or abuse |
| Methyl Ethyl Ketone          | Inhalation | central nervous system depression | May cause drowsiness or dizziness  | official classification | NOAEL Not available |                        |
| Methyl Ethyl Ketone          | Inhalation | respiratory irritation            | Some positive data exist, but the data are not sufficient for classification | Human                   | NOAEL Not available |                        |
| Methyl Ethyl Ketone          | Ingestion  | central nervous system depression | May cause drowsiness or dizziness  | Professional judgement  | NOAEL Not available |                        |
| Methyl Ethyl Ketone          | Ingestion  | liver                             | Not classified   | Rat                     | NOAEL Not available | not applicable         |
| Methyl Ethyl Ketone          | Ingestion  | kidney and/or bladder             | Not classified   | Rat                     | LOAEL 1,080 mg/kg   | not applicable         |

#### Specific Target Organ Toxicity - repeated exposure

| Name  | Route     | Target Organ(s) | Value                           | Species | Test Result | Exposure Duration |
|-------|-----------|-----------------|---------------------------------|---------|-------------|-------------------|
| P,P'- | Ingestion | blood   liver   | Causes damage to organs through | Human   | NOAEL Not   | not available     |

|   |            |  |  |            |                       |                        |
|---|------------|--|--|------------|-----------------------|------------------------|
| DIAMINODIPHENYL SULFONE                         |            |  | prolonged or repeated exposure                                   |            | available             |                        |
| P,P'-DIAMINODIPHENYL SULFONE                    | Ingestion  | nervous system   | May cause damage to organs though prolonged or repeated exposure | Human      | NOAEL Not available   | poisoning and/or abuse |
| P,P'-DIAMINODIPHENYL SULFONE                    | Ingestion  | immune system  | Not classified   | Mouse      | NOAEL 54 mg/kg/day    | 30 days                |
| P,P'-DIAMINODIPHENYL SULFONE                    | Ingestion  | heart  | Not classified   | Human      | NOAEL Not available   | not available          |
| P,P'-DIAMINODIPHENYL SULFONE                    | Ingestion  | kidney and/or bladder  | Not classified   | Human      | NOAEL Not available   | poisoning and/or abuse |
| P,P'-DIAMINODIPHENYL SULFONE                    | Ingestion  | vascular system  | Not classified   | Human      | NOAEL Not available   | not available          |
| P,P'-DIAMINODIPHENYL SULFONE                    | Ingestion  | endocrine system   eyes  | Not classified   | Rat        | NOAEL 100 mg/kg/day   | 90 days                |
| EPOXY RESIN C                                   | Dermal     | liver  | Not classified   | Rat        | NOAEL 1,000 mg/kg/day | 2 years                |
| EPOXY RESIN C                                   | Dermal     | nervous system   | Not classified   | Rat        | NOAEL 1,000 mg/kg/day | 13 weeks               |
| EPOXY RESIN C                                   | 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                |
| AMORPHOUS SILICA                                | Inhalation | respiratory system   silicosis   | Not classified   | Human      | NOAEL Not available   | occupational exposure  |
| DIMETHYL SILOXANE, REACTION PRODUCT WITH SILICA | Inhalation | respiratory system   silicosis   | Not classified   | Human      | NOAEL Not available   | occupational exposure  |
| Methyl Ethyl Ketone                             | Dermal     | nervous system   | Not classified   | Guinea pig | NOAEL Not available   | 31 weeks               |
| Methyl Ethyl Ketone                             | Inhalation | liver   kidney and/or bladder   heart   endocrine system   gastrointestinal tract   bone, teeth, nails, and/or hair   hematopoietic system   immune system   muscles | Not classified   | Rat        | NOAEL 14.7 mg/l       | 90 days                |
| Methyl Ethyl Ketone                             | Ingestion  | liver  | Not classified   | Rat        | NOAEL Not available   | 7 days                 |
| Methyl Ethyl Ketone                             | Ingestion  | nervous system   | Not classified   | Rat        | NOAEL 173 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. Proper destruction may require the use of additional fuel during incineration processes. Combustion products will include halogen acid (HCl/HF/HBr). Facility must be capable of handling halogenated materials. 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):** D035 (Methyl ethyl ketone)

**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

Germ cell mutagenicity

Reproductive toxicity

Specific target organ toxicity (single or repeated exposure)

**15.2. State Regulations**

Contact 3M for more information.

**15.3. Chemical Inventories**

This product is an article as defined by TSCA regulations, and is exempt from TSCA Inventory listing requirements.

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:** 1 **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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