



## Safety Data Sheet

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|------------------------|------------|-------------------------|---------------|
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This Safety Data Sheet has been prepared in accordance with the Canadian Hazardous Products Regulations.

### SECTION 1: Identification

#### 1.1. Product identifier

Aerospace Sealant AC-350 B-2 PMF

##### Product Identification Numbers

|                |                |                |                |                |
|----------------|----------------|----------------|----------------|----------------|
| 70-0053-0022-6 | 70-0053-0027-5 | 70-0053-0028-3 | 70-0053-0069-7 | 70-0053-0086-1 |
| 70-0718-0454-9 | 98-0404-0434-9 |                |                |                |

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

##### General Use

For Industrial or Professional Use Only

##### Intended Use

Sealant

##### Restrictions on use

Not applicable

#### 1.3. Supplier's details

|                   |                                                                        |
|-------------------|------------------------------------------------------------------------|
| <b>Company:</b>   | 3M Canada Company                                                      |
| <b>Division:</b>  | Automotive and Aerospace Solutions Division                            |
| <b>Address:</b>   | 1840 Oxford Street East, Post Office Box 5757, London, Ontario N6A 4T1 |
| <b>Telephone:</b> | (800) 364-3577                                                         |
| <b>Website:</b>   | www.3M.ca                                                              |

#### 1.4. Emergency telephone number

Medical Emergency Telephone: 1-800-3M HELPS / 1800 364 3577

### SECTION 2: Hazard identification

#### 2.1. Classification of the substance or mixture

Skin Sensitizer: 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

May cause an allergic skin reaction.

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

### Precautionary statements

#### Prevention:

Do not breathe fumes. Wash exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves.

#### Response:

IF ON SKIN: Wash with plenty of soap and water. Get medical attention if you feel unwell. If skin irritation or rash occurs: Get medical attention. Take off contaminated clothing and wash it before reuse.

#### Disposal:

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

### 2.3. Other hazards

None known.

12% of the mixture consists of ingredients of unknown acute dermal toxicity.

## SECTION 3: Composition/information on ingredients

This material is a mixture.

| Ingredient                                                                                                                             | C.A.S. No. | % by Wt                  | Common Name                                                                                                                            |
|----------------------------------------------------------------------------------------------------------------------------------------|------------|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| Propane, 1,2,3-trichloro-, polymer with 1,1'-[methylenebis(oxy)]bis[2-chloroethane] and sodium sulfide (Na <sub>2</sub> (Sx)), reduced | 68611-50-7 | 55 - 65                  | Propane, 1,2,3-trichloro-, polymer with 1,1'-[methylenebis(oxy)]bis[2-chloroethane] and sodium sulfide (Na <sub>2</sub> (Sx)), reduced |
| Calcium Carbonate                                                                                                                      | 471-34-1   | 10 - 20                  | Carbonic acid calcium salt (1:1)                                                                                                       |
| Oxidized Polyethylene                                                                                                                  | 68441-17-8 | 10 - 15                  | Ethene, homopolymer, oxidized                                                                                                          |
| Ethanol, 2,2'-oxybis-, dibenzoate                                                                                                      | 120-55-8   | 1 - 5                    | Ethanol, 2,2'-oxybis-, dibenzoate                                                                                                      |
| Manganese Dioxide                                                                                                                      | 1313-13-9  | 1 - 5 Trade Secret *     | Manganese oxide (MnO <sub>2</sub> )                                                                                                    |
| Siloxanes and Silicones, di-Me, reaction products with silica                                                                          | 67762-90-7 | < 2                      | Siloxanes and Silicones, di-Me, reaction products with silica                                                                          |
| Dibenzoate Propanol                                                                                                                    | 27138-31-4 | < 1.5                    | Propanol, oxybis-, dibenzoate                                                                                                          |
| Titanium Dioxide                                                                                                                       | 13463-67-7 | 0.1 - 1.0 Trade Secret * | Titanium oxide (TiO <sub>2</sub> )                                                                                                     |
| 2,2-Bis(p-                                                                                                                             | 25085-99-8 | 0.1 - 0.5 Trade Secret * | Oxirane, 2,2'-[(1-methylethylidene)bis(4,1-                                                                                            |

|                                                |           |                          |                                          |
|------------------------------------------------|-----------|--------------------------|------------------------------------------|
| hydroxyphenyl)propane diglycidyl ether polymer |           |                          | phenyleneoxymethylene)]bis-, homopolymer |
| Phenol, polymer with formaldehyde              | 9003-35-4 | 0.1 - 0.5 Trade Secret * | Phenol, polymer with formaldehyde        |

\*The concentration (exact or range) of this component 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:

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

Allergic skin reaction (redness, swelling, blistering, and itching). Target organ effects following prolonged or repeated exposure. See Section 11 for additional details.

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

Not applicable

## SECTION 5: Fire-fighting measures

### 5.1. Suitable extinguishing media

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

### 5.2. Unsuitable extinguishing media

None Determined

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

None inherent in this product.

### Hazardous Decomposition or By-Products

#### Substance

Carbon monoxide

Carbon dioxide

Irritant Vapours or Gases

#### Condition

During Combustion

During Combustion

During Combustion

### 5.4. Special protection actions for fire-fighters

Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

## SECTION 6: Accidental release measures

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

Use personal protective equipment based on the results of an exposure assessment. Refer to Section 8 for PPE

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

## 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

Do not breathe dust/fume/gas/mist/vapours/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wash contaminated clothing before reuse.

## 7.2. Conditions for safe storage including any incompatibilities

Store away from acids. Store away from strong bases.

# 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.

| <b>Ingredient</b>                                                                     | <b>C.A.S. No.</b> | <b>Agency</b> | <b>Limit type</b>                                                                           | <b>Additional Comments</b> |
|---------------------------------------------------------------------------------------|-------------------|---------------|---------------------------------------------------------------------------------------------|----------------------------|
| MANGANESE, INORGANIC COMPOUNDS                                                        | 1313-13-9         | ACGIH         | TWA(as Mn, respirable fraction):0.02 mg/m3;TWA(as Mn, inhalable fraction):0.1 mg/m3         |                            |
| Titanium Dioxide                                                                      | 13463-67-7        | ACGIH         | TWA(Respirable nanoscale particles):0.2 mg/m3;TWA(Respirable finescale particles):2.5 mg/m3 |                            |
| Particles (insoluble or poorly soluble) not otherwise specified, inhalable particles  | 471-34-1          | ACGIH         | TWA(inhalable particulates):10 mg/m3                                                        |                            |
| Particles (insoluble or poorly soluble) not otherwise specified, respirable particles | 471-34-1          | ACGIH         | TWA(respirable particles):3 mg/m3                                                           |                            |

ACGIH : American Conference of Governmental Industrial Hygienists

AIHA : American Industrial Hygiene Association  
 CMRG : Chemical Manufacturer's Recommended Guidelines  
 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/vapours/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

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 mask or full facepiece air-purifying respirator with N100 particulate filters

Half facepiece or full facepiece air-purifying respirator suitable for particulates

Half facepiece or full facepiece supplied-air respirator

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

## SECTION 9: Physical and chemical properties

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

|                                     |                                     |
|-------------------------------------|-------------------------------------|
| <b>Physical state</b>               | Liquid                              |
| <b>Colour</b>                       | Dark Gray                           |
| <b>Odour</b>                        | (Intensity unknown) Sulfuric        |
| <b>Odour threshold</b>              | No Data Available                   |
| <b>pH</b>                           | Not Applicable                      |
| <b>Melting point/Freezing point</b> | Not Applicable                      |
| <b>Boiling point</b>                | No Data Available                   |
| <b>Flash Point</b>                  | >=93.3 °C [Test Method: Closed Cup] |
| <b>Evaporation rate</b>             | No Data Available                   |
| <b>Flammability</b>                 | Not Applicable                      |

|                                                |                                                    |
|------------------------------------------------|----------------------------------------------------|
|                                                |                                                    |
| <b>Flammable Limits(LEL)</b>                   | <i>No Data Available</i>                           |
| <b>Flammable Limits(UEL)</b>                   | <i>No Data Available</i>                           |
| <b>Vapour Pressure</b>                         | <i>No Data Available</i>                           |
| <b>Relative Vapour Density</b>                 | <i>No Data Available</i>                           |
| <b>Density</b>                                 | 1.35 g/ml                                          |
| <b>Relative density</b>                        | 1.35 [Ref Std: WATER=1]                            |
| <b>Water solubility</b>                        | Nil                                                |
| <b>Solubility- non-water</b>                   | <i>No Data Available</i>                           |
| <b>Partition coefficient: n-octanol/ water</b> | <i>No Data Available</i>                           |
| <b>Autoignition temperature</b>                | <i>No Data Available</i>                           |
| <b>Decomposition temperature</b>               | <i>No Data Available</i>                           |
| <b>Kinematic Viscosity</b>                     | <i>No Data Available</i>                           |
| <b>Volatile Organic Compounds</b>              | 2.7 g/l [Test Method:calculated SCAQMD rule 443.1] |
| <b>Percent volatile</b>                        | <i>No Data Available</i>                           |
| <b>VOC Less H2O &amp; Exempt Solvents</b>      | 2.8 g/l [Test Method:calculated SCAQMD rule 443.1] |

|                                 |                       |
|---------------------------------|-----------------------|
| <b>Particle Characteristics</b> | <i>Not Applicable</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 will not occur.

### 10.4. Conditions to avoid

None known.

### 10.5. Incompatible materials

Reducing agents  
Strong bases  
Strong acids

### 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 regulatory 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 cause additional health effects (see below).

### Skin Contact:

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

### Eye Contact:

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

### Ingestion:

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

### Additional Health Effects:

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

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

### Carcinogenicity:

| Ingredient       | CAS No.    | Class Description             | Regulation                                  |
|------------------|------------|-------------------------------|---------------------------------------------|
| Titanium dioxide | 13463-67-7 | Grp. 2B: Possible human carc. | International Agency for Research on Cancer |

### 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 |
| Propane, 1,2,3-trichloro-, polymer with 1,1'-[methylenebis(oxy)]bis[2-chloroethane] and sodium sulfide (Na <sub>2</sub> (Sx)), reduced | Dermal                         | Rat     | LD50 > 7,800 mg/kg                             |
| Propane, 1,2,3-trichloro-, polymer with 1,1'-[methylenebis(oxy)]bis[2-chloroethane] and sodium sulfide (Na <sub>2</sub> (Sx)), reduced | Ingestion                      | Rat     | LD50 > 5,000 mg/kg                             |
| Calcium Carbonate                                                                                                                      | Dermal                         | Rat     | LD50 > 2,000 mg/kg                             |
| Calcium Carbonate                                                                                                                      | Inhalation-Dust/Mist (4 hours) | Rat     | LC50 3 mg/l                                    |
| Calcium Carbonate                                                                                                                      | Ingestion                      | Rat     | LD50 6,450 mg/kg                               |
| Oxidized Polyethylene                                                                                                                  | Ingestion                      | Rat     | LD50 > 2,500 mg/kg                             |
| Manganese Dioxide                                                                                                                      | Dermal                         | Rat     | LD50 2,000 mg/kg                               |
| Manganese Dioxide                                                                                                                      | Inhalation-Dust/Mist (4 hours) | Rat     | LC50 > 1.5 mg/l                                |
| Manganese Dioxide                                                                                                                      | Ingestion                      | Rat     | LD50 > 2,197 mg/kg                             |
| Siloxanes and Silicones, di-Me, reaction products with silica                                                                          | Dermal                         | Rabbit  | LD50 > 5,000 mg/kg                             |
| Siloxanes and Silicones, di-Me, reaction products with silica                                                                          | Inhalation-Dust/Mist (4 hours) | Rat     | LC50 > 0.691 mg/l                              |
| Siloxanes and Silicones, di-Me, reaction products with silica                                                                          | Ingestion                      | Rat     | LD50 > 5,110 mg/kg                             |
| Dibenzoate Propanol                                                                                                                    | Dermal                         | Rat     | LD50 > 2,000 mg/kg                             |

|                                                          |                                |        |                     |
|----------------------------------------------------------|--------------------------------|--------|---------------------|
| Dibenzoate Propanol                                      | Inhalation-Dust/Mist (4 hours) | Rat    | LC50 > 200 mg/l     |
| Dibenzoate Propanol                                      | Ingestion                      | Rat    | LD50 3,295 mg/kg    |
| Titanium Dioxide                                         | Dermal                         | Rabbit | LD50 > 10,000 mg/kg |
| Titanium Dioxide                                         | Inhalation-Dust/Mist (4 hours) | Rat    | LC50 > 6.82 mg/l    |
| Titanium Dioxide                                         | Ingestion                      | Rat    | LD50 > 10,000 mg/kg |
| 2,2-Bis(p-hydroxyphenyl)propane diglycidyl ether polymer | Dermal                         | Rat    | LD50 > 1,600 mg/kg  |
| 2,2-Bis(p-hydroxyphenyl)propane diglycidyl ether polymer | Ingestion                      | Rat    | LD50 > 1,000 mg/kg  |
| Phenol, polymer with formaldehyde                        | Dermal                         | Rat    | LD50 > 2,000 mg/kg  |
| Phenol, polymer with formaldehyde                        | Ingestion                      | Rat    | LD50 > 2,900 mg/kg  |

ATE = acute toxicity estimate

### Skin Corrosion/Irritation

| Name                                                                                                                                   | Species                | Value                     |
|----------------------------------------------------------------------------------------------------------------------------------------|------------------------|---------------------------|
| Propane, 1,2,3-trichloro-, polymer with 1,1'-[methylenebis(oxy)]bis[2-chloroethane] and sodium sulfide (Na <sub>2</sub> (Sx)), reduced | Rabbit                 | No significant irritation |
| Calcium Carbonate                                                                                                                      | Rabbit                 | No significant irritation |
| Oxidized Polyethylene                                                                                                                  | Professional judgement | No significant irritation |
| Manganese Dioxide                                                                                                                      | Rabbit                 | No significant irritation |
| Siloxanes and Silicones, di-Me, reaction products with silica                                                                          | Rabbit                 | No significant irritation |
| Dibenzoate Propanol                                                                                                                    | Rabbit                 | No significant irritation |
| Titanium Dioxide                                                                                                                       | Rabbit                 | No significant irritation |
| 2,2-Bis(p-hydroxyphenyl)propane diglycidyl ether polymer                                                                               | Rabbit                 | Mild irritant             |
| Phenol, polymer with formaldehyde                                                                                                      | Human and animal       | Mild irritant             |

### Serious Eye Damage/Irritation

| Name                                                                                                                                   | Species                | Value                     |
|----------------------------------------------------------------------------------------------------------------------------------------|------------------------|---------------------------|
| Propane, 1,2,3-trichloro-, polymer with 1,1'-[methylenebis(oxy)]bis[2-chloroethane] and sodium sulfide (Na <sub>2</sub> (Sx)), reduced | Rabbit                 | No significant irritation |
| Calcium Carbonate                                                                                                                      | Rabbit                 | No significant irritation |
| Oxidized Polyethylene                                                                                                                  | Professional judgement | No significant irritation |
| Manganese Dioxide                                                                                                                      | Rabbit                 | Mild irritant             |
| Siloxanes and Silicones, di-Me, reaction products with silica                                                                          | Rabbit                 | No significant irritation |
| Dibenzoate Propanol                                                                                                                    | Rabbit                 | No significant irritation |
| Titanium Dioxide                                                                                                                       | Rabbit                 | No significant irritation |
| 2,2-Bis(p-hydroxyphenyl)propane diglycidyl ether polymer                                                                               | Rabbit                 | Moderate irritant         |
| Phenol, polymer with formaldehyde                                                                                                      | Human and animal       | Moderate irritant         |

### Skin Sensitization

| Name                                                                                                                                   | Species          | Value          |
|----------------------------------------------------------------------------------------------------------------------------------------|------------------|----------------|
| Propane, 1,2,3-trichloro-, polymer with 1,1'-[methylenebis(oxy)]bis[2-chloroethane] and sodium sulfide (Na <sub>2</sub> (Sx)), reduced |                  | Not classified |
| Manganese Dioxide                                                                                                                      | Mouse            | Not classified |
| Siloxanes and Silicones, di-Me, reaction products with silica                                                                          | Human and animal | Not classified |
| Dibenzoate Propanol                                                                                                                    | Guinea pig       | Not classified |
| Titanium Dioxide                                                                                                                       | Human            | Not classified |

|                                                          |                  |             |
|----------------------------------------------------------|------------------|-------------|
|                                                          | and animal       |             |
| 2,2-Bis(p-hydroxyphenyl)propane diglycidyl ether polymer | Human and animal | Sensitizing |
| Phenol, polymer with formaldehyde                        | Human and animal | Sensitizing |

**Respiratory Sensitization**

| Name                                                     | Species | Value          |
|----------------------------------------------------------|---------|----------------|
| 2,2-Bis(p-hydroxyphenyl)propane diglycidyl ether polymer | Human   | Not classified |
| Phenol, polymer with formaldehyde                        | Human   | Not classified |

**Germ Cell Mutagenicity**

| Name                                                          | Route    | Value                                                                        |
|---------------------------------------------------------------|----------|------------------------------------------------------------------------------|
| Manganese Dioxide                                             | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Manganese Dioxide                                             | In vivo  | Some positive data exist, but the data are not sufficient for classification |
| Siloxanes and Silicones, di-Me, reaction products with silica | In Vitro | Not mutagenic                                                                |
| Dibenzoate Propanol                                           | In Vitro | Not mutagenic                                                                |
| Titanium Dioxide                                              | In Vitro | Not mutagenic                                                                |
| Titanium Dioxide                                              | In vivo  | Not mutagenic                                                                |
| 2,2-Bis(p-hydroxyphenyl)propane diglycidyl ether polymer      | In vivo  | Not mutagenic                                                                |
| 2,2-Bis(p-hydroxyphenyl)propane diglycidyl ether polymer      | In Vitro | Some positive data exist, but the data are not sufficient for classification |

**Carcinogenicity**

| Name                                                          | Route         | Species                 | Value                                                                        |
|---------------------------------------------------------------|---------------|-------------------------|------------------------------------------------------------------------------|
| Siloxanes and Silicones, di-Me, reaction products with silica | Not Specified | Mouse                   | Some positive data exist, but the data are not sufficient for classification |
| Titanium Dioxide                                              | Ingestion     | Multiple animal species | Not carcinogenic                                                             |
| Titanium Dioxide                                              | Inhalation    | Rat                     | Carcinogenic                                                                 |
| 2,2-Bis(p-hydroxyphenyl)propane diglycidyl ether polymer      | 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            |
|---------------------------------------------------------------|------------|----------------------------------------|---------|-----------------------|------------------------------|
| Calcium Carbonate                                             | Ingestion  | Not classified for development         | Rat     | NOAEL 625 mg/kg/day   | premating & during gestation |
| Manganese Dioxide                                             | Inhalation | Not classified for female reproduction | Rat     | NOAEL 20 mg/m3        | 2 generation                 |
| Manganese Dioxide                                             | Inhalation | Not classified for male reproduction   | Rabbit  | LOAEL 250 mg/kg       | 1 days                       |
| Manganese Dioxide                                             | Ingestion  | Not classified for development         | Rat     | LOAEL 354 mg/kg/day   | premating into lactation     |
| Manganese Dioxide                                             | Inhalation | Not classified for development         | Rat     | LOAEL 61 mg/m3        | gestation into lactation     |
| Siloxanes and Silicones, di-Me, reaction products with silica | Ingestion  | Not classified for female reproduction | Rat     | NOAEL 509 mg/kg/day   | 1 generation                 |
| Siloxanes and Silicones, di-Me, reaction products with silica | Ingestion  | Not classified for male reproduction   | Rat     | NOAEL 497 mg/kg/day   | 1 generation                 |
| Siloxanes and Silicones, di-Me, reaction products with silica | Ingestion  | Not classified for development         | Rat     | NOAEL 1,350 mg/kg/day | during organogenesis         |

|                                                          |           |                                        |        |                       |                      |
|----------------------------------------------------------|-----------|----------------------------------------|--------|-----------------------|----------------------|
| Dibenzoate Propanol                                      | Ingestion | Not classified for female reproduction | Rat    | NOAEL 500 mg/kg/day   | 2 generation         |
| Dibenzoate Propanol                                      | Ingestion | Not classified for male reproduction   | Rat    | NOAEL 400 mg/kg/day   | 2 generation         |
| Dibenzoate Propanol                                      | Ingestion | Not classified for development         | Rat    | NOAEL 1,000 mg/kg/day | during gestation     |
| 2,2-Bis(p-hydroxyphenyl)propane diglycidyl ether polymer | Ingestion | Not classified for female reproduction | Rat    | NOAEL 750 mg/kg/day   | 2 generation         |
| 2,2-Bis(p-hydroxyphenyl)propane diglycidyl ether polymer | Ingestion | Not classified for male reproduction   | Rat    | NOAEL 750 mg/kg/day   | 2 generation         |
| 2,2-Bis(p-hydroxyphenyl)propane diglycidyl ether polymer | Dermal    | Not classified for development         | Rabbit | NOAEL 300 mg/kg/day   | during organogenesis |
| 2,2-Bis(p-hydroxyphenyl)propane diglycidyl ether polymer | Ingestion | Not classified for development         | Rat    | NOAEL 750 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 |
|-----------------------------------|------------|------------------------|------------------------------------------------------------------------------|------------------|---------------------|-------------------|
| Calcium Carbonate                 | Inhalation | respiratory system     | Not classified                                                               | Rat              | NOAEL 0.812 mg/l    | 90 minutes        |
| Phenol, polymer with formaldehyde | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | Human and animal | NOAEL Not available |                   |

#### Specific Target Organ Toxicity - repeated exposure

| Name                                                          | Route      | Target Organ(s)                                                                                          | Value                                                                        | Species | Test result                 | Exposure Duration     |
|---------------------------------------------------------------|------------|----------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|---------|-----------------------------|-----------------------|
| Calcium Carbonate                                             | Inhalation | respiratory system                                                                                       | Not classified                                                               | Human   | NOAEL Not available         | occupational exposure |
| Manganese Dioxide                                             | Inhalation | respiratory system                                                                                       | Causes damage to organs through prolonged or repeated exposure               | Monkey  | LOAEL 1.1 mg/m <sup>3</sup> | 10 months             |
| Manganese Dioxide                                             | Inhalation | nervous system                                                                                           | Causes damage to organs through prolonged or repeated exposure               | Human   | NOAEL Not available         | occupational exposure |
| Siloxanes and Silicones, di-Me, reaction products with silica | Inhalation | respiratory system   silicosis                                                                           | Not classified                                                               | Human   | NOAEL Not available         | occupational exposure |
| Dibenzoate Propanol                                           | Ingestion  | hematopoietic system   liver                                                                             | Not classified                                                               | Rat     | NOAEL 2,500 mg/kg/day       | 90 days               |
| Titanium Dioxide                                              | Inhalation | respiratory system                                                                                       | Some positive data exist, but the data are not sufficient for classification | Rat     | LOAEL 0.01 mg/l             | 2 years               |
| Titanium Dioxide                                              | Inhalation | pulmonary fibrosis                                                                                       | Not classified                                                               | Human   | NOAEL Not available         | occupational exposure |
| 2,2-Bis(p-hydroxyphenyl)propane diglycidyl ether polymer      | Dermal     | liver                                                                                                    | Not classified                                                               | Rat     | NOAEL 1,000 mg/kg/day       | 2 years               |
| 2,2-Bis(p-hydroxyphenyl)propane diglycidyl ether polymer      | Dermal     | nervous system                                                                                           | Not classified                                                               | Rat     | NOAEL 1,000 mg/kg/day       | 13 weeks              |
| 2,2-Bis(p-hydroxyphenyl)propane diglycidyl ether polymer      | 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               |
| Phenol, polymer with formaldehyde                             | Inhalation | respiratory system                                                                                       | Some positive data exist, but the data are not sufficient for classification | Human   | NOAEL Not available         | occupational 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

No data available.

## 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.

## 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. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### Global inventory status

Contact 3M for more 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.

## SECTION 16: Other information

**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.**

**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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**3M Canada SDSs are available at [www.3M.ca](http://www.3M.ca)**