



## Safety Data Sheet

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|                        |            |                         |            |
|------------------------|------------|-------------------------|------------|
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| <b>Issue Date:</b>     | 2023/01/19 | <b>Supersedes Date:</b> | 2022/11/14 |

## SECTION 1: Identification

### 1.1. Product identifier

3M(TM) Scotch-Weld(TM) Epoxy Adhesive 2216 Gray

#### Product Identification Numbers

|                |                |                |                |                |
|----------------|----------------|----------------|----------------|----------------|
| 62-2216-0530-6 | 62-2216-0535-5 | 62-2216-1430-8 | 62-2216-1435-7 | 62-2216-1436-5 |
| 62-2216-5430-4 | 62-2216-6430-3 | 62-2216-7430-2 | 62-2216-7431-0 | HB-0042-8820-3 |
| JS-3000-4968-6 | JS-3000-4973-6 | JS-3000-4980-1 | UU-0118-4681-1 | XA-0065-3276-7 |
| XD-0055-2900-8 | XD-0055-2906-5 | XD-0055-2988-3 |                |                |

### 1.2. Recommended use and restrictions on use

#### Recommended use

Structural adhesive

### 1.3. Supplier's details

**Company:** 3M Canada Company  
**Division:** Industrial Adhesives and Tapes Division  
**Address:** 1840 Oxford Street East, Post Office Box 5757, London, Ontario N6A 4T1

**Telephone:** (800) 364-3577  
**E Mail:**

### 1.4. Emergency telephone number

Medical Emergency Telephone: 1-800-3M HELPS / 1-800-364-3577; Transportation Emergency Telephone (CANUTEC): (613) 996-6666

**This product is a kit or a multipart product which consists of multiple, independently packaged components. A Safety Data Sheet (SDS) or Article Information Sheet (AIS) 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:**

10-3167-3, 10-3174-9

Transport in accordance with applicable regulations.

The information in this Safety Data Sheet (SDS) is believed to be correct as of the date issued. The manufacturer MAKES NO WARRANTIES, EXPRESS OR IMPLIED, STATUTORY OR OTHERWISE, INCLUDING, BUT NOT LIMITED TO,

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

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



## Safety Data Sheet

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|                        |            |                         |            |
|------------------------|------------|-------------------------|------------|
| <b>Document group:</b> | 10-3167-3  | <b>Version number:</b>  | 16.00      |
| <b>Issue Date:</b>     | 2024/01/25 | <b>Supersedes Date:</b> | 2022/11/11 |

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

### SECTION 1: Identification

#### 1.1. Product identifier

3M™ Scotch-Weld™ Epoxy Adhesive 2216 Gray Part B

##### Product Identification Numbers

|                |                |                |                |                |
|----------------|----------------|----------------|----------------|----------------|
| 62-2216-4130-1 | 62-2216-5930-3 | 62-2216-6830-4 | 62-2216-8530-8 | 62-2216-8535-7 |
| 62-2216-9530-7 | 62-2216-9531-5 | H0-0017-2145-7 |                |                |

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

##### Intended Use

Adhesive

##### Specific Use

Structural adhesive

##### Restrictions on use

Not applicable

#### 1.3. Supplier's details

|                   |  |
|-------------------|--|
| <b>Company:</b>   | 3M Canada Company  |
| <b>Division:</b>  | Industrial Adhesives and Tapes 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 / 1-800-364-3577; Transportation Emergency Telephone (CANUTEC): (613) 996-6666

### SECTION 2: Hazard identification

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

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/vapours/spray. Wear protective gloves. Wash exposed skin 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. Other hazards**

None known.

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

This material is a mixture.

| Ingredient       | C.A.S. No. | % by Wt                | Common Name   |
|------------------|------------|------------------------|---|
| Epoxy Resin      | 25068-38-6 | 60 - 80 Trade Secret * | Phenol, 4,4'-(1-methylethylidene)bis-, polymer with (chloromethyl)oxirane |
| Kaolin           | 1332-58-7  | 20 - 30                | Kaolin  |
| Titanium Dioxide | 13463-67-7 | < 1                    | Titanium oxide (TiO2)   |

\*The actual concentration of this ingredient 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**

Allergic skin reaction (redness, swelling, blistering, and itching).

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

Not applicable

**SECTION 5: Fire-fighting measures**

**5.1. Suitable extinguishing media**

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

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

None inherent in this product.

**Hazardous Decomposition or By-Products**

**Substance**

Aldehydes  
Hydrocarbons  
Carbon monoxide  
Carbon dioxide  
Hydrogen Chloride  
Ketones  
Toxic Vapor, Gas, Particulate

**Condition**

During Combustion  
During Combustion  
During Combustion  
During Combustion  
During Combustion  
During Combustion  
During Combustion

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

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

**SECTION 6: Accidental release measures**

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

Evacuate area. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapours, in accordance with good industrial hygiene practice. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

**6.2. Environmental precautions**

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

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

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

applicable local/regional/national/international regulations.

**SECTION 7: Handling and storage**

**7.1. Precautions for safe handling**

For industrial or professional use only. Not for consumer sale or use. Avoid breathing 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. 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 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.

| <b>Ingredient</b> | <b>C.A.S. No.</b> | <b>Agency</b> | <b>Limit type</b>   | <b>Additional Comments</b> |
|-------------------|-------------------|---------------|---|----------------------------|
| Kaolin            | 1332-58-7         | ACGIH         | TWA(respirable fraction):2 mg/m3  |                            |
| Titanium Dioxide  | 13463-67-7        | ACGIH         | TWA(Respirable nanoscale particles):0.2 mg/m3;TWA(Respirable finescale particles):2.5 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**

Provide ventilated enclosure for curing. 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

Indirect Vented Goggles

**Skin/hand protection**

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

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

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

**Respiratory protection**

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

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

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

**SECTION 9: Physical and chemical properties**

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

|  |  |
|--|--|
| <b>Physical state</b>                                | Liquid   |
| <b>Specific Physical Form:</b>                       | Viscous Liquid   |
| <b>Colour</b>  | Gray   |
| <b>Odour</b>   | Slight Epoxy   |
| <b>Odour threshold</b>                               | <i>No Data Available</i>   |
| <b>pH</b>  | <i>Not Applicable</i>  |
| <b>Melting point/Freezing point</b>                  | <i>Not Applicable</i>  |
| <b>Boiling point</b>                                 | <i>Not Applicable</i>  |
| <b>Flash Point</b>                                   | 248 °C [ <i>Test Method</i> :Pensky-Martens Closed Cup]  |
| <b>Evaporation rate</b>                              | <i>Not Applicable</i>  |
| <b>Flammability (solid, gas)</b>                     | Not Applicable   |
| <b>Flammable Limits(LEL)</b>                         | <i>Not Applicable</i>  |
| <b>Flammable Limits(UEL)</b>                         | <i>Not Applicable</i>  |
| <b>Vapour Pressure</b>                               | <=13.3 Pa [ <i>@ 25 °C</i> ]   |
| <b>Vapour Density and/or Relative Vapour Density</b> | <i>Not Applicable</i>  |
| <b>Density</b>                                       | 1.33 g/ml [ <i>@ 20 °C</i> ]   |
| <b>Relative density</b>                              | 1.33 [ <i>@ 20 °C</i> ] [ <i>Ref Std:WATER=1</i> ]   |
| <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>Viscosity/Kinematic Viscosity</b>                 | 75,000 - 150,000 mPa-s [ <i>Test Method</i> :Brookfield]   |
| <b>Volatile Organic Compounds</b>                    | <i>No Data Available</i>   |
| <b>Percent volatile</b>                              | <i>No Data Available</i>   |
| <b>VOC Less H2O &amp; Exempt Solvents</b>            | 3.7 g/l [ <i>Test Method</i> :calculated SCAQMD rule 443.1] [ <i>Details</i> :when used as intended with Part A] |
| <b>VOC Less H2O &amp; Exempt Solvents</b>            | 0 g/l [ <i>Test Method</i> :calculated SCAQMD rule 443.1] [ <i>Details</i> :as supplied]                         |
| <b>VOC Less H2O &amp; Exempt Solvents</b>            | < 0.5 % [ <i>Test Method</i> :calculated SCAQMD rule 443.1] [ <i>Details</i> :when used as intended with Part A] |
| <b>Molecular weight</b>                              | <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 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 acids  
Strong oxidizing agents

**10.6. Hazardous decomposition products**

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

Refer to section 5.2 for hazardous decomposition products during combustion.

**SECTION 11: Toxicological information**

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

**11.1. Information on Toxicological effects**

**Signs and Symptoms of Exposure**

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

**Inhalation:**

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

**Skin Contact:**

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.

**Carcinogenicity:**

| <u>Ingredient</u> | <u>CAS No.</u> | <u>Class Description</u>      | <u>Regulation</u>                           |
|-------------------|----------------|-------------------------------|---|
| 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  | 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                             |
| Kaolin           | Dermal                         |         | LD50 estimated to be > 5,000 mg/kg             |
| Kaolin           | Ingestion                      | Human   | LD50 > 15,000 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                            |

ATE = acute toxicity estimate

**Skin Corrosion/Irritation**

| Name             | Species                | Value                     |
|------------------|------------------------|---------------------------|
| Epoxy Resin      | Rabbit                 | Mild irritant             |
| Kaolin           | Professional judgement | No significant irritation |
| Titanium Dioxide | Rabbit                 | No significant irritation |

**Serious Eye Damage/Irritation**

| Name             | Species                | Value                     |
|------------------|------------------------|---------------------------|
| Epoxy Resin      | Rabbit                 | Moderate irritant         |
| Kaolin           | Professional judgement | No significant irritation |
| Titanium Dioxide | Rabbit                 | No significant irritation |

**Skin Sensitization**

| Name             | Species          | Value          |
|------------------|------------------|----------------|
| Epoxy Resin      | Human and animal | Sensitizing    |
| Titanium Dioxide | Human and animal | Not classified |

**Respiratory Sensitization**

| Name        | Species | Value          |
|-------------|---------|----------------|
| Epoxy Resin | Human   | Not classified |

**Germ Cell Mutagenicity**

| Name             | Route    | Value  |
|------------------|----------|--|
| Epoxy Resin      | In vivo  | Not mutagenic  |
| Epoxy Resin      | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Titanium Dioxide | In Vitro | Not mutagenic  |
| Titanium Dioxide | In vivo  | Not mutagenic  |

**Carcinogenicity**

| Name             | Route      | Species                 | Value  |
|------------------|------------|-------------------------|--|
| Epoxy Resin      | Dermal     | Mouse                   | Some positive data exist, but the data are not sufficient for classification |
| Kaolin           | Inhalation | Multiple animal species | Not carcinogenic   |
| Titanium Dioxide | Ingestion  | Multiple animal species | Not carcinogenic   |
| Titanium Dioxide | Inhalation | Rat                     | Carcinogenic   |

**Reproductive Toxicity**

**Reproductive and/or Developmental Effects**

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

**Target Organ(s)**

**Specific Target Organ Toxicity - single exposure**

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

**Specific Target Organ Toxicity - repeated exposure**

| Name             | Route      | Target Organ(s)  | Value  | Species | Test result           | Exposure Duration     |
|------------------|------------|--|--|---------|-----------------------|-----------------------|
| Epoxy Resin      | Dermal     | liver  | Not classified   | Rat     | NOAEL 1,000 mg/kg/day | 2 years               |
| Epoxy Resin      | Dermal     | nervous system   | Not classified   | Rat     | NOAEL 1,000 mg/kg/day | 13 weeks              |
| Epoxy Resin      | Ingestion  | auditory system   heart   endocrine system   hematopoietic system   liver   eyes   kidney and/or bladder | Not classified   | Rat     | NOAEL 1,000 mg/kg/day | 28 days               |
| Kaolin           | Inhalation | pneumoconiosis   | Causes damage to organs through prolonged or repeated exposure               | Human   | NOAEL NA              | occupational exposure |
| Kaolin           | Inhalation | pulmonary fibrosis   | Not classified   | Rat     | NOAEL Not available   |                       |
| 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 |

**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. 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.

## 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 material are in compliance with the provisions of the Korea Chemical Control Act. Certain restrictions may apply. Contact the selling division for additional information. The components of this material are in compliance with the provisions of Australia National Industrial Chemical Notification and Assessment Scheme (NICNAS). Certain restrictions may apply. Contact the selling division for additional information. The components of this material are in compliance with the provisions of Japan Chemical Substance Control Law. Certain restrictions may apply. Contact the selling division for additional information. The components of this material are in compliance with the provisions of Philippines RA 6969 requirements. Certain restrictions may apply. Contact the selling division for additional information. The components of this product are in compliance with the new substance notification requirements of CEPA. This product complies with Measures on Environmental Management of New Chemical Substances. All ingredients are listed on or exempt from on China IECSC inventory. 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: 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.

|                        |            |                         |            |
|------------------------|------------|-------------------------|------------|
| <b>Document group:</b> | 10-3167-3  | <b>Version number:</b>  | 16.00      |
| <b>Issue Date:</b>     | 2024/01/25 | <b>Supersedes Date:</b> | 2022/11/11 |

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



## Safety Data Sheet

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**Document group:** 10-3174-9 **Version number:** 32.00  
**Issue Date:** 2022/12/28 **Supersedes Date:** 2022/02/28

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

### SECTION 1: Identification

#### 1.1. Product identifier

3M™ Scotch-Weld™ Epoxy Adhesive 2216 Gray Part A

#### Product Identification Numbers

|                |                |                |                |                |
|----------------|----------------|----------------|----------------|----------------|
| LA-D100-1809-3 | LA-D100-0020-7 | LA-D100-0101-3 | LA-D100-0101-4 | LA-D100-0101-5 |
| LA-D100-0102-1 | 62-2217-5530-9 | 62-2217-7530-7 | 62-2217-8530-6 | 62-2217-8535-5 |
| 62-2217-9530-5 | 62-2217-9531-3 | H0-0017-2143-2 |                |                |

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

##### Intended Use

Structural adhesive

##### Restrictions on use

Not applicable

#### 1.3. Supplier's details

**Company:** 3M Canada Company  
**Division:** Industrial Adhesives and Tapes Division  
**Address:** 1840 Oxford Street East, Post Office Box 5757, London, Ontario N6A 4T1  
**Telephone:** (800) 364-3577  
**Website:** www.3M.ca

#### 1.4. Emergency telephone number

Medical Emergency Telephone: 1-800-3M HELPS / 1-800-364-3577; Transportation Emergency Telephone (CANUTEC): (613) 996-6666

### SECTION 2: Hazard identification

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

Serious Eye Damage/Irritation: Category 2A.  
Skin Corrosion/Irritation: Category 2.  
Skin Sensitizer: Category 1A.  
Reproductive Toxicity: Category 1B.  
Specific Target Organ Toxicity (single exposure): Category 3.

**2.2. Label elements**

**Signal word**

Danger

**Symbols**

Exclamation mark | Health Hazard |

**Pictograms**



**Hazard statements**

Causes serious eye irritation. Causes skin irritation. May cause an allergic skin reaction. May cause drowsiness or dizziness. May damage fertility or the unborn child.

**Precautionary statements**

**Prevention:**

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing dust/fume/gas/mist/vapours/spray. Use only outdoors or in a well-ventilated area. Wear protective gloves and eye/face protection. Wash exposed skin thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace.

**Response:**

IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF 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. IF exposed or concerned: Get medical advice/attention.

**Storage:**

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

**Disposal:**

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

**2.3. Other hazards**

None known.

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

This material is a mixture.

| Ingredient                                    | C.A.S. No. | % by Wt                | Common Name  |
|---|------------|------------------------|--|
| Aliphatic Polymer Diamine                     | 68911-25-1 | 45 - 70 Trade Secret * | Fatty acids, C18-unsatd., dimers, polymers with 3,3'-[oxybis(2,1-ethanedioxy)]bis[1-propanamine] |
| Kaolin  | 1332-58-7  | 30 - 60                | Kaolin   |
| Bis(3-Aminopropyl) Ether Of Diethylene Glycol | 4246-51-9  | 0.5 - 5 Trade Secret * | 1-Propanamine, 3,3'-[oxybis(2,1-ethanedioxy)]bis-  |
| Titanium Dioxide                              | 13463-67-7 | < 1                    | Titanium oxide (TiO2)  |

|         |          |         |                   |
|---------|----------|---------|-------------------|
| Toluene | 108-88-3 | 0 - 0.5 | No Data Available |
|---------|----------|---------|-------------------|

\*The actual concentration of this ingredient 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

Allergic skin reaction (redness, swelling, blistering, and itching). Central nervous system depression (headache, dizziness, drowsiness, incoordination, nausea, slurred speech, giddiness, and unconsciousness).

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

Not applicable

## SECTION 5: Fire-fighting measures

### 5.1. Suitable extinguishing media

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

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

None inherent in this product.

### Hazardous Decomposition or By-Products

**Substance**

Amine Compounds  
 Carbon monoxide  
 Carbon dioxide  
 Oxides of Nitrogen  
 Toxic Vapor, Gas, Particulate

**Condition**

During Combustion  
 During Combustion  
 During Combustion  
 During Combustion  
 During Combustion

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

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

## SECTION 6: Accidental release measures

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

Evacuate area. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapours, in accordance with good industrial hygiene practice. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

### 6.2. Environmental precautions

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

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

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

**SECTION 7: Handling and storage**

**7.1. Precautions for safe handling**

For industrial or professional use only. 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/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. Use personal protective equipment (gloves, respirators, etc.) as required.

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

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

**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> |
|-------------------|-------------------|---------------|---|----------------------------|
| Toluene           | 108-88-3          | ACGIH         | TWA:20 ppm  |                            |
| Kaolin            | 1332-58-7         | ACGIH         | TWA(respirable fraction):2 mg/m3  |                            |
| Titanium Dioxide  | 13463-67-7        | ACGIH         | TWA(Respirable nanoscale particles):0.2 mg/m3;TWA(Respirable finescale particles):2.5 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  
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

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 vapours and particulates

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

## SECTION 9: Physical and chemical properties

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

|  |   |
|--|---|
| <b>Physical state</b>                                | Liquid  |
| <b>Specific Physical Form:</b>                       | Viscous   |
| <b>Colour</b>  | Gray  |
| <b>Odour</b>   | Pungent Odour   |
| <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>                                   | >=93.9 °C [Test Method: Closed Cup]   |
| <b>Evaporation rate</b>                              | Not Applicable  |
| <b>Flammability (solid, gas)</b>                     | Not Applicable  |
| <b>Flammable Limits(LEL)</b>                         | Not Applicable  |
| <b>Flammable Limits(UEL)</b>                         | Not Applicable  |
| <b>Vapour Pressure</b>                               | <=13.3 Pa [@ 25 °C ]  |
| <b>Vapour Density and/or Relative Vapour Density</b> | Not Applicable  |
| <b>Density</b>                                       | 1.26 g/ml [@ 20 °C ]  |
| <b>Relative density</b>                              | 1.26 [@ 20 °C ] [Ref Std: WATER=1]  |
| <b>Water solubility</b>                              | Nil   |
| <b>Solubility- non-water</b>                         | No Data Available   |
| <b>Partition coefficient: n-octanol/ water</b>       | No Data Available   |
| <b>Autoignition temperature</b>                      | No Data Available   |
| <b>Decomposition temperature</b>                     | No Data Available   |
| <b>Viscosity/Kinematic Viscosity</b>                 | 40,000 - 80,000 mPa-s [@ 20 °C ] [Test Method: Brookfield]  |
| <b>Volatile Organic Compounds</b>                    | No Data Available   |
| <b>Percent volatile</b>                              | No Data Available   |
| <b>VOC Less H2O &amp; Exempt Solvents</b>            | 3.7 g/l [Test Method: calculated SCAQMD rule 443.1]<br>[Details: when used as intended with Part B] |
| <b>VOC Less H2O &amp; Exempt Solvents</b>            | < 0.5 % [Test Method: calculated SCAQMD rule 443.1]   |

|                                |  |
|--------------------------------|--|
|                                | [Details:when used as intended with Part B]                                  |
| VOC Less H2O & Exempt Solvents | 6.12 g/l [Test Method:calculated SCAQMD rule 443.1]<br>[Details:as supplied] |
| Molecular weight               | No Data Available  |

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

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

### 10.2. Chemical stability

Stable.

### 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

### 10.4. Conditions to avoid

Heat 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

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:**

Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain. May cause additional health effects (see below).

#### **Skin Contact:**

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

#### **Eye Contact:**

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

**Ingestion:**

May be harmful if swallowed. Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea. May cause additional health effects (see below).

**Additional Health Effects:**

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

Central Nervous System (CNS) Depression: Signs/symptoms may include headache, dizziness, drowsiness, incoordination, nausea, slowed reaction time, slurred speech, giddiness, and unconsciousness.

**Reproductive/Developmental Toxicity:**

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

**Carcinogenicity:**

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

**Additional Information:**

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

**Toxicological Data**

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

**Acute Toxicity**

| Name  | Route                          | Species | Value   |
|---|--------------------------------|---------|---|
| Overall product                               | Dermal                         |         | No data available; calculated ATE >5,000 mg/kg          |
| Overall product                               | Ingestion                      |         | No data available; calculated ATE >2,000 - =5,000 mg/kg |
| Aliphatic Polymer Diamine                     | Dermal                         | Rat     | LD50 > 2,000 mg/kg                                      |
| Aliphatic Polymer Diamine                     | Ingestion                      | Rat     | LD50 > 2,000 mg/kg                                      |
| Kaolin  | Dermal                         |         | LD50 estimated to be > 5,000 mg/kg                      |
| Kaolin  | Ingestion                      | Human   | LD50 > 15,000 mg/kg                                     |
| Bis(3-Aminopropyl) Ether Of Diethylene Glycol | Dermal                         | Rabbit  | LD50 2,525 mg/kg  |
| Bis(3-Aminopropyl) Ether Of Diethylene Glycol | Ingestion                      | Rat     | LD50 2,850 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                                     |
| Toluene                                       | Dermal                         | Rat     | LD50 12,000 mg/kg                                       |
| Toluene                                       | Inhalation-Vapor (4 hours)     | Rat     | LC50 30 mg/l  |
| Toluene                                       | Ingestion                      | Rat     | LD50 5,550 mg/kg  |

ATE = acute toxicity estimate

**Skin Corrosion/Irritation**

| Name  | Species                | Value                     |
|---|------------------------|---------------------------|
| Aliphatic Polymer Diamine                     | Rat                    | Irritant                  |
| Kaolin  | Professional judgement | No significant irritation |
| Bis(3-Aminopropyl) Ether Of Diethylene Glycol | Rabbit                 | Corrosive                 |
| Titanium Dioxide                              | Rabbit                 | No significant irritation |
| Toluene                                       | Rabbit                 | Irritant                  |

**Serious Eye Damage/Irritation**

| Name  | Species                | Value                     |
|---|------------------------|---------------------------|
| Aliphatic Polymer Diamine                     | In vitro data          | Severe irritant           |
| Kaolin  | Professional judgement | No significant irritation |
| Bis(3-Aminopropyl) Ether Of Diethylene Glycol | Rabbit                 | Corrosive                 |
| Titanium Dioxide                              | Rabbit                 | No significant irritation |
| Toluene                                       | Rabbit                 | Moderate irritant         |

**Skin Sensitization**

| Name  | Species                | Value          |
|---|------------------------|----------------|
| Aliphatic Polymer Diamine                     | Guinea pig             | Sensitizing    |
| Bis(3-Aminopropyl) Ether Of Diethylene Glycol | Professional judgement | Sensitizing    |
| Titanium Dioxide                              | Human and animal       | Not classified |
| Toluene                                       | Guinea pig             | Not classified |

**Respiratory Sensitization**

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

**Germ Cell Mutagenicity**

| Name  | Route    | Value         |
|---|----------|---------------|
| Aliphatic Polymer Diamine                     | In Vitro | Not mutagenic |
| Bis(3-Aminopropyl) Ether Of Diethylene Glycol | In Vitro | Not mutagenic |
| Titanium Dioxide                              | In Vitro | Not mutagenic |
| Titanium Dioxide                              | In vivo  | Not mutagenic |
| Toluene                                       | In Vitro | Not mutagenic |
| Toluene                                       | In vivo  | Not mutagenic |

**Carcinogenicity**

| Name             | Route      | Species                 | Value  |
|------------------|------------|-------------------------|--|
| Kaolin           | Inhalation | Multiple animal species | Not carcinogenic   |
| Titanium Dioxide | Ingestion  | Multiple animal species | Not carcinogenic   |
| Titanium Dioxide | Inhalation | Rat                     | Carcinogenic   |
| Toluene          | Dermal     | Mouse                   | Some positive data exist, but the data are not sufficient for classification |
| Toluene          | Ingestion  | Rat                     | Some positive data exist, but the data are not sufficient for classification |
| Toluene          | Inhalation | 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        |
|---------------------------|-----------|--|---------|-----------------------|--------------------------|
| Aliphatic Polymer Diamine | Ingestion | Not classified for female reproduction | Rat     | NOAEL 1,000 mg/kg/day | premating into lactation |

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|   |            |  |       |                       |                          |
|---|------------|--|-------|-----------------------|--------------------------|
| Aliphatic Polymer Diamine                     | Ingestion  | Not classified for male reproduction   | Rat   | NOAEL 1,000 mg/kg/day | 29 days                  |
| Aliphatic Polymer Diamine                     | Ingestion  | Not classified for development         | Rat   | NOAEL 1,000 mg/kg/day | premating into lactation |
| Bis(3-Aminopropyl) Ether Of Diethylene Glycol | Ingestion  | Not classified for female reproduction | Rat   | NOAEL 600 mg/kg/day   | premating into lactation |
| Bis(3-Aminopropyl) Ether Of Diethylene Glycol | Ingestion  | Not classified for male reproduction   | Rat   | NOAEL 600 mg/kg/day   | 59 days                  |
| Bis(3-Aminopropyl) Ether Of Diethylene Glycol | Ingestion  | Not classified for development         | Rat   | NOAEL 600 mg/kg/day   | premating into lactation |
| Toluene                                       | Inhalation | Not classified for female reproduction | Human | NOAEL Not available   | occupational exposure    |
| Toluene                                       | Inhalation | Not classified for male reproduction   | Rat   | NOAEL 2.3 mg/l        | 1 generation             |
| Toluene                                       | Ingestion  | Toxic to development                   | Rat   | LOAEL 520 mg/kg/day   | during gestation         |
| Toluene                                       | Inhalation | Toxic to development                   | Human | NOAEL Not available   | poisoning and/or abuse   |

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

| Name  | Route      | Target Organ(s)                   | Value  | Species                | Test result         | Exposure Duration      |
|---|------------|-----------------------------------|--|------------------------|---------------------|------------------------|
| Aliphatic Polymer Diamine                     | Inhalation | respiratory irritation            | Some positive data exist, but the data are not sufficient for classification | similar health hazards | Irritation Positive |                        |
| Aliphatic Polymer Diamine                     | Ingestion  | central nervous system depression | May cause drowsiness or dizziness  | Rat                    | NOAEL Not available |                        |
| Bis(3-Aminopropyl) Ether Of Diethylene Glycol | Inhalation | respiratory irritation            | Some positive data exist, but the data are not sufficient for classification | similar health hazards | NOAEL Not available |                        |
| Toluene                                       | Inhalation | central nervous system depression | May cause drowsiness or dizziness  | Human                  | NOAEL Not available |                        |
| Toluene                                       | Inhalation | respiratory irritation            | Some positive data exist, but the data are not sufficient for classification | Human                  | NOAEL Not available |                        |
| Toluene                                       | Inhalation | immune system                     | Not classified   | Mouse                  | NOAEL 0.004 mg/l    | 3 hours                |
| Toluene                                       | Ingestion  | central nervous system depression | May cause drowsiness or dizziness  | Human                  | NOAEL Not available | poisoning and/or abuse |

**Specific Target Organ Toxicity - repeated exposure**

| Name  | Route      | Target Organ(s)  | Value  | Species | Test result           | Exposure Duration     |
|---|------------|--|--|---------|-----------------------|-----------------------|
| Aliphatic Polymer Diamine                     | Ingestion  | heart   skin   endocrine system   gastrointestinal tract   bone, teeth, nails, and/or hair   hematopoietic system   liver   immune system   muscles   nervous system   eyes   kidney and/or bladder   respiratory system   vascular system | Not classified   | Rat     | NOAEL 1,000 mg/kg/day | 29 days               |
| Kaolin  | Inhalation | pneumoconiosis   | Causes damage to organs through prolonged or repeated exposure | Human   | NOAEL NA              | occupational exposure |
| Kaolin  | Inhalation | pulmonary fibrosis   | Not classified   | Rat     | NOAEL Not available   |                       |
| Bis(3-Aminopropyl) Ether Of Diethylene Glycol | Ingestion  | gastrointestinal tract   heart   endocrine system   bone, teeth,   | Not classified   | Rat     | NOAEL 600 mg/kg/day   | 59 days               |

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|                  |            |  |  |                         |                       |                        |
|------------------|------------|--|--|-------------------------|-----------------------|------------------------|
|                  |            | nails, and/or hair   hematopoietic system   liver   immune system   muscles   nervous system   eyes   kidney and/or bladder   respiratory system   vascular system |  |                         |                       |                        |
| 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  |
| Toluene          | Inhalation | auditory system   eyes   olfactory system  | Causes damage to organs through prolonged or repeated exposure               | Human                   | NOAEL Not available   | poisoning and/or abuse |
| Toluene          | Inhalation | nervous system   | May cause damage to organs though prolonged or repeated exposure             | Human                   | NOAEL Not available   | poisoning and/or abuse |
| Toluene          | Inhalation | respiratory system   | Some positive data exist, but the data are not sufficient for classification | Rat                     | LOAEL 2.3 mg/l        | 15 months              |
| Toluene          | Inhalation | heart   liver   kidney and/or bladder  | Not classified   | Rat                     | NOAEL 11.3 mg/l       | 15 weeks               |
| Toluene          | Inhalation | endocrine system   | Not classified   | Rat                     | NOAEL 1.1 mg/l        | 4 weeks                |
| Toluene          | Inhalation | immune system  | Not classified   | Mouse                   | NOAEL Not available   | 20 days                |
| Toluene          | Inhalation | bone, teeth, nails, and/or hair  | Not classified   | Mouse                   | NOAEL 1.1 mg/l        | 8 weeks                |
| Toluene          | Inhalation | hematopoietic system   vascular system   | Not classified   | Human                   | NOAEL Not available   | occupational exposure  |
| Toluene          | Inhalation | gastrointestinal tract   | Not classified   | Multiple animal species | NOAEL 11.3 mg/l       | 15 weeks               |
| Toluene          | Ingestion  | nervous system   | Some positive data exist, but the data are not sufficient for classification | Rat                     | NOAEL 625 mg/kg/day   | 13 weeks               |
| Toluene          | Ingestion  | heart  | Not classified   | Rat                     | NOAEL 2,500 mg/kg/day | 13 weeks               |
| Toluene          | Ingestion  | liver   kidney and/or bladder  | Not classified   | Multiple animal species | NOAEL 2,500 mg/kg/day | 13 weeks               |
| Toluene          | Ingestion  | hematopoietic system   | Not classified   | Mouse                   | NOAEL 600 mg/kg/day   | 14 days                |
| Toluene          | Ingestion  | endocrine system   | Not classified   | Mouse                   | NOAEL 105 mg/kg/day   | 28 days                |
| Toluene          | Ingestion  | immune system  | Not classified   | Mouse                   | NOAEL 105 mg/kg/day   | 4 weeks                |

**Aspiration Hazard**

| Name    | Value             |
|---------|-------------------|
| Toluene | Aspiration hazard |

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 material are in compliance with the provisions of the Korea Chemical Control Act. Certain restrictions may apply. Contact the selling division for additional information. The components of this material are in compliance with the provisions of Australia National Industrial Chemical Notification and Assessment Scheme (NICNAS). Certain restrictions may apply. Contact the selling division for additional information. The components of this material are in compliance with the provisions of Japan Chemical Substance Control Law. Certain restrictions may apply. Contact the selling division for additional information. The components of this material are in compliance with the provisions of Philippines RA 6969 requirements. Certain restrictions may apply. Contact the selling division for additional information. The components of this product are in compliance with the new substance notification requirements of CEPA. This product complies with Measures on Environmental Management of New Chemical Substances. All ingredients are listed on or exempt from on China IECSC inventory. 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: 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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