# Safety Data Sheet

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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

3M™ Scotch-Weld™ Composite Surfacing and Lightning Strike Protection Film AF 536

**Product Identification Numbers**

| | | | | |
|---|---|---|---|---|
| LA-T100-2684-7 | 70-0711-0725-7 | 70-0711-0726-5 | 70-0711-0727-3 | 70-0711-0728-1 |
| 70-0711-0731-5 | 70-0711-0732-3 | UU-0110-1508-6 | UU-0110-1813-0 | UU-0110-1814-8 |
| UU-0110-1815-5 | UU-0110-1816-3 | UU-0110-1817-1 | UU-0111-1030-9 | UU-0111-1151-3 |
| UU-0112-0578-6 | UU-0112-0579-4 | UU-0112-0580-2 | UU-0112-0589-3 | UU-0112-0651-1 |
| UU-0112-0652-9 | UU-0112-0653-7 | UU-0112-0654-5 | UU-0112-0655-2 | UU-0112-0656-0 |
| UU-0112-0657-8 | UU-0112-0658-6 | UU-0112-0741-0 | UU-0112-0742-8 | UU-0112-0743-6 |
| UU-0112-0744-4 | UU-0112-0746-9 | UU-0112-0747-7 | UU-0112-0749-3 | UU-0112-0750-1 |
| UU-0112-0751-9 | UU-0112-0752-7 | UU-0112-0753-5 | UU-0112-0928-3 | UU-0112-0929-1 |
| UU-0112-0930-9 | UU-0112-0941-6 | UU-0118-0172-5 | UU-0121-1885-5 | UU-0131-5106-1 |
| UU-0131-6902-2 | | | | |

### 1.2. Recommended use and restrictions on use

**Intended Use**
Industrial use

**Restrictions on use**
Not applicable

### 1.3. Supplier's details

| | |
|---|---|
| **Company:** | 3M Canada Company |
| **Division:** | Automotive and Aerospace Solutions 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 / 1800 364 3577

## SECTION 2: Hazard identification

### 2.1. Classification of the substance or mixture

Skin Corrosion/Irritation: Category 2.
Skin Sensitizer: Category 1.
Germ Cell Mutagenicity: Category 2.
Carcinogenicity: Category 2.

**2.2. Label elements**
**Signal word**
Warning

**Symbols**
Exclamation mark |Health Hazard |

**Pictograms**



**Hazard Statements**

Causes skin irritation. May cause an allergic skin reaction. Suspected of causing genetic defects. Suspected of causing cancer.

**Precautionary statements**

**Prevention:**
Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing fumes. Wash exposed skin thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves and if needed, respiratory protection (see SDS Section 8).

**Response:**
IF ON SKIN: Wash with plenty of soap and water. IF exposed or concerned: Get medical attention. If skin irritation or rash occurs: Get medical attention. Take off contaminated clothing and wash it before reuse.

**Storage:**
Store locked up.

**Disposal:**
Dispose of contents and container in accordance with applicable local, regional, national, and 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 |
|---|---|---|---|
| Copper Screen | None | 30 - 55 | Not Applicable |
| Oxirane, 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis-, polymer with 1,1'-methylenebis[isocyanatobenzene] | 60684-77-7 | 7 - 20 Trade Secret * | No Data Available |

| | | | |
|---|---|---|---|
| Bisphenol A Diglycidyl Ether | 1675-54-3 | 7 - 15 Trade Secret * | Oxirane, 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis- |
| FIBERGLASS | None | 1 - 15 | Not Applicable |
| Epoxy Resin 1 | 25068-38-6 | 4.8 - 14.4 | Phenol, 4,4'-(1-methylethylidene)bis-, polymer with (chloromethyl)oxirane |
| Bisphenol A-Epichlorohydrin-Formaldehyde Copolymer | 28906-96-9 | 3 - 10 Trade Secret * | Formaldehyde, polymer with (chloromethyl)oxirane and 4,4'-(1-methylethylidene)bis[phenol] |
| FLEXIBLIZER | Trade Secret | 0.1 - 10 | Not Applicable |
| Glass Bubbles | 65997-17-3 | 1 - 10 | Glass, oxide, chemicals |
| 2,2-Bis(p-hydroxyphenyl)propane diglycidyl ether polymer | 25085-99-8 | 1 - 6 Trade Secret * | Oxirane, 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis-, homopolymer |
| FILLER | Trade Secret | 0.1 - 5 | Not Applicable |
| CURATIVE 1 | Trade Secret | 0.1 - 5 | Not Applicable |
| N,N,N',N'-TETRAGLYCIDYLBIS(P-AMINOPHENYL)METHANE | 28768-32-3 | 0.5 - 5 Trade Secret * | Oxiranemethanamine, N,N'-(methylenedi-4,1-phenylene)bis[N-(oxiranylmethyl)- |
| MIBK | 108-10-1 | 0 - 0.21 | 2-Pentanone, 4-methyl- |

CURATIVE 1 is a non-hazardous material according to WHMIS criteria. Specific information has been withheld as a trade secret.
FIBERGLASS is a non-hazardous material according to WHMIS criteria. Specific information has been withheld as a trade secret.
Copper Screen is a non-hazardous material according to WHMIS criteria. Specific information has been withheld as a trade secret.
FLEXIBLIZER is a non-hazardous material according to WHMIS criteria. Specific information has been withheld as a trade secret.
FILLER is a non-hazardous material according to WHMIS criteria. Specific information has been withheld as a trade secret.

*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).

**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 | Condition |
|---|---|
| Aldehydes | During Combustion |
| Carbon monoxide | During Combustion |
| Carbon dioxide | During Combustion |
| Hydrogen Gas | During Combustion |
| Hydrogen Chloride | During Combustion |
| Hydrogen Cyanide | During Combustion |
| Ammonia | During Combustion |
| Oxides of Nitrogen | During Combustion |
| Phosgene | During Combustion |

**5.4. Special protection 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. 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.

**6.2. Environmental precautions**
Avoid release to the environment.

**6.3. Methods and material for containment and cleaning up**
Collect as much of the spilled material as possible. Place in a closed container approved for transportation by appropriate authorities. Clean up residue. Seal the container. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations.

## SECTION 7: Handling and storage

**7.1. Precautions for safe handling**
Do not handle until all safety precautions have been read and understood. 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. Use personal protective equipment (gloves,

respirators, etc.) as required.

**7.2. Conditions for safe storage including any incompatibilities**
Store away from heat. Store away from amines. Store locked up.

## SECTION 8: Exposure controls/personal protection

**8.1. Control parameters**

**Occupational exposure limits**
If a component is disclosed in section 3 but does not appear in the table below, an occupational exposure limit is not available for the component.

| Ingredient | C.A.S. No. | Agency | Limit type | Additional Comments |
|---|---|---|---|---|
| MIBK | 108-10-1 | ACGIH | TWA:20 ppm;STEL:75 ppm | |
| Glass Bubbles | 65997-17-3 | Manufacturer determined | TWA(as non-fibrous, respirable)(8 hours):3 mg/m3;TWA(as non-fibrous, inhalable fraction)(8 hours):10 mg/m3 | |
| Particles (insoluble or poorly soluble) not otherwise specified, inhalable particles | 65997-17-3 | ACGIH | TWA(inhalable particulates):10 mg/m3 | |
| Particles (insoluble or poorly soluble) not otherwise specified, respirable particles | 65997-17-3 | 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**
Provide ventilated enclosure for curing. Curing enclosures must be exhausted to outdoors or to a suitable emission control device. Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/vapours/spray. If ventilation is not adequate, use respiratory protection equipment.

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

**Eye/face protection**
None required.

**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 (e.g., spraying, high splash potential, etc.), then use of a protective apron may be necessary. See recommended glove material(s) for determining appropriate apron

material(s). If a glove material is not available as an apron, polymer laminate is a suitable option.

**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**

| | |
|---|---|
| **Physical state** | Solid |
| **Specific Physical Form:** | Film |
| **Colour** | Beige |
| **Odour** | Low Epoxy |
| **Odour threshold** | *No Data Available* |
| **pH** | *Not Applicable* |
| **Melting point/Freezing point** | *No Data Available* |
| **Boiling point** | *Not Applicable* |
| **Flash Point** | No flash point |
| **Evaporation rate** | *Not Applicable* |
| **Flammability** | Not Applicable |
| **Flammable Limits(LEL)** | *Not Applicable* |
| **Flammable Limits(UEL)** | *Not Applicable* |
| **Relative Vapour Density** | Nil |
| **Density** | *Not Applicable* |
| **Relative density** | *No Data Available* |
| **Water solubility** | Nil |
| **Solubility- non-water** | *No Data Available* |
| **Partition coefficient: n-octanol/ water** | *No Data Available* |
| **Autoignition temperature** | *Not Applicable* |
| **Decomposition temperature** | *No Data Available* |
| **Kinematic Viscosity** | *Not Applicable* |
| **Volatile Organic Compounds** | *Not Applicable* |
| **Percent volatile** | 0 - 2 % weight [*Details:*Max 2% in the AF 536 film, % reduced due to copper content ] |
| **VOC Less H2O & Exempt Solvents** | *Not Applicable* |
| **Molecular weight** | *Not Applicable* |

| | |
|---|---|
| **Particle Characteristics** | *Not Applicable* |

## SECTION 10: Stability and reactivity

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

**10.2. Chemical stability**
Stable.

**10.3. Possibility of hazardous reactions**
Hazardous polymerization will not occur.

**10.4. Conditions to avoid**
Heat

**10.5. Incompatible materials**
Amines

**10.6. Hazardous decomposition products**

| Substance | Condition |
|---|---|
| None known. | |

Refer to section 5.2 for hazardous decomposition products during combustion.

## SECTION 11: Toxicological information

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

**11.1. Information on Toxicological effects**

**Signs and Symptoms of Exposure**

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

**Inhalation:**
Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain. 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:**
Contact with the eyes during product use is not expected to result in significant irritation.

**Ingestion:**
Physical Blockage: Signs/symptoms may include cramping, abdominal pain, and constipation. Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

**Additional Health Effects:**

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

**Carcinogenicity:**
Contains a chemical or chemicals which can cause cancer.

| Ingredient | CAS No. | Class Description | Regulation |
|---|---|---|---|
| Methyl isobutyl ketone | 108-10-1 | 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. Persons previously sensitized to isocyanates may develop a cross-sensitization reaction to other isocyanates.

**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 |
| Oxirane, 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis-, polymer with 1,1'-methylenebis[isocyanatobenzene] | Dermal | Professional judgement | LD50 estimated to be > 5,000 mg/kg |
| Oxirane, 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis-, polymer with 1,1'-methylenebis[isocyanatobenzene] | Inhalation-Dust/Mist | Professional judgement | LC50 estimated to be > 12.5 mg/l |
| Oxirane, 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis-, polymer with 1,1'-methylenebis[isocyanatobenzene] | Ingestion | Professional judgement | LD50 estimated to be > 5,000 mg/kg |
| Bisphenol A Diglycidyl Ether | Dermal | Rat | LD50 > 1,600 mg/kg |
| Bisphenol A Diglycidyl Ether | Ingestion | Rat | LD50 > 1,000 mg/kg |
| Epoxy Resin 1 | Dermal | Rat | LD50 > 1,600 mg/kg |
| Epoxy Resin 1 | Ingestion | Rat | LD50 > 1,000 mg/kg |
| Glass Bubbles | Dermal | | LD50 estimated to be > 5,000 mg/kg |
| Glass Bubbles | Ingestion | | LD50 estimated to be 2,000 - 5,000 mg/kg |
| Bisphenol A-Epichlorohydrin-Formaldehyde Copolymer | Dermal | Rat | LD50 > 2,000 mg/kg |
| Bisphenol A-Epichlorohydrin-Formaldehyde Copolymer | Ingestion | Rat | LD50 > 2,000 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 |
| FLEXIBLIZER | Dermal | Rabbit | LD50 > 5,000 mg/kg |
| FLEXIBLIZER | Ingestion | Rat | LD50 > 5,000 mg/kg |
| N,N,N',N'-TETRAGLYCIDYLBIS(P-AMINOPHENYL)METHANE | Dermal | Rabbit | LD50 > 3,000 mg/kg |
| N,N,N',N'-TETRAGLYCIDYLBIS(P-AMINOPHENYL)METHANE | Ingestion | Rat | LD50 > 5,000 mg/kg |
| CURATIVE 1 | Dermal | Rabbit | LD50 > 10,000 mg/kg |
| CURATIVE 1 | Ingestion | Rat | LD50 > 30,000 mg/kg |
| FILLER | Dermal | Rabbit | LD50 > 5,000 mg/kg |
| FILLER | Inhalation-Dust/Mist (4 hours) | Rat | LC50 > 0.691 mg/l |
| FILLER | Ingestion | Rat | LD50 > 5,110 mg/kg |
| MIBK | Dermal | Rabbit | LD50 > 16,000 mg/kg |
| MIBK | Inhalation-Vapor (4 hours) | Rat | LC50 11 mg/l |
| MIBK | Ingestion | Rat | LD50 3,038 mg/kg |

ATE = acute toxicity estimate

**Skin Corrosion/Irritation**

| Name | Species | Value |
|---|---|---|
| Oxirane, 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis-, polymer with 1,1'-methylenebis[isocyanatobenzene] | Professional judgement | Irritant |
| Bisphenol A Diglycidyl Ether | Rabbit | Mild irritant |
| Epoxy Resin 1 | Rabbit | Mild irritant |
| Glass Bubbles | Professio | No significant irritation |

| | | |
|---|---|---|
| | nal judgeme nt | |
| Bisphenol A-Epichlorohydrin-Formaldehyde Copolymer | Professio nal judgeme nt | Irritant |
| 2,2-Bis(p-hydroxyphenyl)propane diglycidyl ether polymer | Rabbit | Mild irritant |
| FLEXIBLIZER | Professio nal judgeme nt | Minimal irritation |
| N,N,N',N'-TETRAGLYCIDYLBIS(P-AMINOPHENYL)METHANE | Rabbit | No significant irritation |
| CURATIVE 1 | Human and animal | Minimal irritation |
| FILLER | Rabbit | No significant irritation |
| MIBK | Rabbit | Mild irritant |

**Serious Eye Damage/Irritation**

| Name | Species | Value |
|---|---|---|
| Oxirane, 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis-, polymer with 1,1'-methylenebis[isocyanatobenzene] | Professio nal judgeme nt | Severe irritant |
| Bisphenol A Diglycidyl Ether | Rabbit | Moderate irritant |
| Epoxy Resin 1 | Rabbit | Moderate irritant |
| Glass Bubbles | Professio nal judgeme nt | No significant irritation |
| Bisphenol A-Epichlorohydrin-Formaldehyde Copolymer | Professio nal judgeme nt | Severe irritant |
| 2,2-Bis(p-hydroxyphenyl)propane diglycidyl ether polymer | Rabbit | Moderate irritant |
| FLEXIBLIZER | Professio nal judgeme nt | Mild irritant |
| N,N,N',N'-TETRAGLYCIDYLBIS(P-AMINOPHENYL)METHANE | Rabbit | Mild irritant |
| CURATIVE 1 | Professio nal judgeme nt | Mild irritant |
| FILLER | Rabbit | No significant irritation |
| MIBK | Rabbit | Mild irritant |

**Skin Sensitization**

| Name | Species | Value |
|---|---|---|
| Oxirane, 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis-, polymer with 1,1'-methylenebis[isocyanatobenzene] | Professio nal judgeme nt | Sensitizing |
| Bisphenol A Diglycidyl Ether | Human and animal | Sensitizing |
| Epoxy Resin 1 | Human and animal | Sensitizing |
| Bisphenol A-Epichlorohydrin-Formaldehyde Copolymer | Professio nal judgeme nt | Sensitizing |
| 2,2-Bis(p-hydroxyphenyl)propane diglycidyl ether polymer | Human | Sensitizing |

| | | |
|---|---|---|
| | and animal | |
| N,N,N',N'-TETRAGLYCIDYLBIS(P-AMINOPHENYL)METHANE | Human and animal | Sensitizing |
| CURATIVE 1 | Guinea pig | Not classified |
| FILLER | Human and animal | Not classified |
| MIBK | Guinea pig | Not classified |

**Respiratory Sensitization**

| Name | Species | Value |
|---|---|---|
| Bisphenol A Diglycidyl Ether | Human | Not classified |
| Epoxy Resin 1 | Human | Not classified |
| 2,2-Bis(p-hydroxyphenyl)propane diglycidyl ether polymer | Human | Not classified |

**Germ Cell Mutagenicity**

| Name | Route | Value |
|---|---|---|
| Bisphenol A Diglycidyl Ether | In vivo | Not mutagenic |
| Bisphenol A Diglycidyl Ether | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Epoxy Resin 1 | In vivo | Not mutagenic |
| Epoxy Resin 1 | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Glass Bubbles | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| 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 |
| N,N,N',N'-TETRAGLYCIDYLBIS(P-AMINOPHENYL)METHANE | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| N,N,N',N'-TETRAGLYCIDYLBIS(P-AMINOPHENYL)METHANE | In vivo | Mutagenic |
| CURATIVE 1 | In Vitro | Not mutagenic |
| FILLER | In Vitro | Not mutagenic |
| MIBK | In Vitro | Not mutagenic |

**Carcinogenicity**

| Name | Route | Species | Value |
|---|---|---|---|
| Bisphenol A Diglycidyl Ether | Dermal | Mouse | Some positive data exist, but the data are not sufficient for classification |
| Epoxy Resin 1 | Dermal | Mouse | Some positive data exist, but the data are not sufficient for classification |
| Glass Bubbles | Inhalation | Multiple animal species | Some positive data exist, but the data are not sufficient for classification |
| 2,2-Bis(p-hydroxyphenyl)propane diglycidyl ether polymer | Dermal | Mouse | Some positive data exist, but the data are not sufficient for classification |
| CURATIVE 1 | Ingestion | Rat | Not carcinogenic |
| FILLER | Not Specified | Mouse | Some positive data exist, but the data are not sufficient for classification |
| MIBK | Inhalation | Multiple animal species | Carcinogenic |

**Reproductive Toxicity**

**Reproductive and/or Developmental Effects**

| Name | Route | Value | Species | Test result | Exposure Duration |
|---|---|---|---|---|---|

| | | | | | |
|---|---|---|---|---|---|
| Bisphenol A Diglycidyl Ether | Ingestion | Not classified for female reproduction | Rat | NOAEL 750 mg/kg/day | 2 generation |
| Bisphenol A Diglycidyl Ether | Ingestion | Not classified for male reproduction | Rat | NOAEL 750 mg/kg/day | 2 generation |
| Bisphenol A Diglycidyl Ether | Dermal | Not classified for development | Rabbit | NOAEL 300 mg/kg/day | during organogenesis |
| Bisphenol A Diglycidyl Ether | Ingestion | Not classified for development | Rat | NOAEL 750 mg/kg/day | 2 generation |
| Epoxy Resin 1 | Ingestion | Not classified for female reproduction | Rat | NOAEL 750 mg/kg/day | 2 generation |
| Epoxy Resin 1 | Ingestion | Not classified for male reproduction | Rat | NOAEL 750 mg/kg/day | 2 generation |
| Epoxy Resin 1 | Dermal | Not classified for development | Rabbit | NOAEL 300 mg/kg/day | during organogenesis |
| Epoxy Resin 1 | Ingestion | Not classified for development | Rat | NOAEL 750 mg/kg/day | 2 generation |
| 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 |
| N,N,N',N'-TETRAGLYCIDYLBIS(P-AMINOPHENYL)METHANE | Ingestion | Not classified for development | Rat | NOAEL 90 mg/kg/day | during gestation |
| CURATIVE 1 | Ingestion | Not classified for female reproduction | Rat | NOAEL 1,000 mg/kg/day | premating & during gestation |
| CURATIVE 1 | Ingestion | Not classified for male reproduction | Rat | NOAEL 1,000 mg/kg/day | 44 days |
| CURATIVE 1 | Ingestion | Not classified for development | Rat | NOAEL 1,000 mg/kg/day | premating & during gestation |
| FILLER | Ingestion | Not classified for female reproduction | Rat | NOAEL 509 mg/kg/day | 1 generation |
| FILLER | Ingestion | Not classified for male reproduction | Rat | NOAEL 497 mg/kg/day | 1 generation |
| FILLER | Ingestion | Not classified for development | Rat | NOAEL 1,350 mg/kg/day | during organogenesis |
| MIBK | Inhalation | Not classified for female reproduction | Multiple animal species | NOAEL 8.2 mg/l | 2 generation |
| MIBK | Ingestion | Not classified for male reproduction | Rat | NOAEL 1,000 mg/kg/day | 13 weeks |
| MIBK | Inhalation | Not classified for male reproduction | Multiple animal species | NOAEL 8.2 mg/l | 2 generation |
| MIBK | Inhalation | Not classified for development | Mouse | NOAEL 12.3 mg/l | during organogenesis |

## Target Organ(s)

### Specific Target Organ Toxicity - single exposure

| Name | Route | Target Organ(s) | Value | Species | Test result | Exposure Duration |
|---|---|---|---|---|---|---|
| Bisphenol A Diglycidyl Ether | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | similar health hazards | NOAEL Not available | |
| Epoxy Resin 1 | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for | similar health | NOAEL Not available | |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | | classification | hazards | | |
| Bisphenol A-Epichlorohydrin-Formaldehyde Copolymer | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | Professional judgement | NOAEL not available | |
| 2,2-Bis(p-hydroxyphenyl)propane diglycidyl ether polymer | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | similar health hazards | NOAEL Not available | |
| MIBK | Inhalation | central nervous system depression | May cause drowsiness or dizziness | Human | LOAEL 0.1 mg/l | 2 hours |
| MIBK | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | Human | NOAEL Not available | |
| MIBK | Inhalation | vascular system | Not classified | Dog | NOAEL Not available | not available |
| MIBK | Ingestion | central nervous system depression | May cause drowsiness or dizziness | Rat | LOAEL 900 mg/kg | not applicable |

**Specific Target Organ Toxicity - repeated exposure**

| Name | Route | Target Organ(s) | Value | Species | Test result | Exposure Duration |
|---|---|---|---|---|---|---|
| Bisphenol A Diglycidyl Ether | Dermal | liver | Not classified | Rat | NOAEL 1,000 mg/kg/day | 2 years |
| Bisphenol A Diglycidyl Ether | Dermal | nervous system | Not classified | Rat | NOAEL 1,000 mg/kg/day | 13 weeks |
| Bisphenol A Diglycidyl Ether | Ingestion | auditory system | Not classified | Rat | NOAEL 1,000 mg/kg/day | 28 days |
| Bisphenol A Diglycidyl Ether | Ingestion | heart | Not classified | Rat | NOAEL 1,000 mg/kg/day | 28 days |
| Bisphenol A Diglycidyl Ether | Ingestion | endocrine system | Not classified | Rat | NOAEL 1,000 mg/kg/day | 28 days |
| Bisphenol A Diglycidyl Ether | Ingestion | hematopoietic system | Not classified | Rat | NOAEL 1,000 mg/kg/day | 28 days |
| Bisphenol A Diglycidyl Ether | Ingestion | liver | Not classified | Rat | NOAEL 1,000 mg/kg/day | 28 days |
| Bisphenol A Diglycidyl Ether | Ingestion | eyes | Not classified | Rat | NOAEL 1,000 mg/kg/day | 28 days |
| Bisphenol A Diglycidyl Ether | Ingestion | kidney and/or bladder | Not classified | Rat | NOAEL 1,000 mg/kg/day | 28 days |
| Epoxy Resin 1 | Dermal | liver | Not classified | Rat | NOAEL 1,000 mg/kg/day | 2 years |
| Epoxy Resin 1 | Dermal | nervous system | Not classified | Rat | NOAEL 1,000 mg/kg/day | 13 weeks |
| Epoxy Resin 1 | Ingestion | auditory system | Not classified | Rat | NOAEL 1,000 mg/kg/day | 28 days |
| Epoxy Resin 1 | Ingestion | heart | Not classified | Rat | NOAEL 1,000 mg/kg/day | 28 days |
| Epoxy Resin 1 | Ingestion | endocrine system | Not classified | Rat | NOAEL 1,000 mg/kg/day | 28 days |
| Epoxy Resin 1 | Ingestion | hematopoietic system | Not classified | Rat | NOAEL 1,000 mg/kg/day | 28 days |
| Epoxy Resin 1 | Ingestion | liver | Not classified | Rat | NOAEL | 28 days |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | | | | 1,000 mg/kg/day | |
| Epoxy Resin 1 | Ingestion | eyes | Not classified | Rat | NOAEL 1,000 mg/kg/day | 28 days |
| Epoxy Resin 1 | Ingestion | kidney and/or bladder | Not classified | Rat | NOAEL 1,000 mg/kg/day | 28 days |
| Glass Bubbles | Inhalation | respiratory system | 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 | Not classified | Rat | NOAEL 1,000 mg/kg/day | 28 days |
| 2,2-Bis(p-hydroxyphenyl)propane diglycidyl ether polymer | Ingestion | heart | Not classified | Rat | NOAEL 1,000 mg/kg/day | 28 days |
| 2,2-Bis(p-hydroxyphenyl)propane diglycidyl ether polymer | Ingestion | endocrine system | Not classified | Rat | NOAEL 1,000 mg/kg/day | 28 days |
| 2,2-Bis(p-hydroxyphenyl)propane diglycidyl ether polymer | Ingestion | hematopoietic system | Not classified | Rat | NOAEL 1,000 mg/kg/day | 28 days |
| 2,2-Bis(p-hydroxyphenyl)propane diglycidyl ether polymer | Ingestion | liver | Not classified | Rat | NOAEL 1,000 mg/kg/day | 28 days |
| 2,2-Bis(p-hydroxyphenyl)propane diglycidyl ether polymer | Ingestion | eyes | Not classified | Rat | NOAEL 1,000 mg/kg/day | 28 days |
| 2,2-Bis(p-hydroxyphenyl)propane diglycidyl ether polymer | Ingestion | kidney and/or bladder | Not classified | Rat | NOAEL 1,000 mg/kg/day | 28 days |
| N,N,N',N'-TETRAGLYCIDYLBIS(P-AMINOPHENYL)METHANE | Ingestion | hematopoietic system | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 50 mg/kg/day | 13 weeks |
| N,N,N',N'-TETRAGLYCIDYLBIS(P-AMINOPHENYL)METHANE | Ingestion | gastrointestinal tract | Not classified | Rat | NOAEL 200 mg/kg/day | 13 weeks |
| N,N,N',N'-TETRAGLYCIDYLBIS(P-AMINOPHENYL)METHANE | Ingestion | liver | Not classified | Rat | NOAEL 200 mg/kg/day | 13 weeks |
| N,N,N',N'-TETRAGLYCIDYLBIS(P-AMINOPHENYL)METHANE | Ingestion | immune system | Not classified | Rat | NOAEL 200 mg/kg/day | 13 weeks |
| N,N,N',N'-TETRAGLYCIDYLBIS(P-AMINOPHENYL)METHANE | Ingestion | nervous system | Not classified | Rat | NOAEL 200 mg/kg/day | 13 weeks |
| N,N,N',N'-TETRAGLYCIDYLBIS(P-AMINOPHENYL)METHANE | Ingestion | eyes | Not classified | Rat | NOAEL 200 mg/kg/day | 13 weeks |
| N,N,N',N'- | Ingestion | kidney and/or | Not classified | Rat | NOAEL 200 | 13 weeks |

| | | | | | | |
|---|---|---|---|---|---|---|
| TETRAGLYCIDYLBIS(P-AMINOPHENYL)METHANE | | bladder | | | mg/kg/day | |
| CURATIVE 1 | Ingestion | kidney and/or bladder | Not classified | Rat | NOAEL 6,822 mg/kg/day | 13 weeks |
| FILLER | Inhalation | respiratory system | Not classified | Human | NOAEL Not available | occupational exposure |
| FILLER | Inhalation | silicosis | Not classified | Human | NOAEL Not available | occupational exposure |
| MIBK | Inhalation | liver | Not classified | Rat | NOAEL 0.41 mg/l | 13 weeks |
| MIBK | Inhalation | heart | Not classified | Multiple animal species | NOAEL 0.8 mg/l | 2 weeks |
| MIBK | Inhalation | kidney and/or bladder | Not classified | Multiple animal species | NOAEL 0.4 mg/l | 90 days |
| MIBK | Inhalation | respiratory system | Not classified | Multiple animal species | NOAEL 4.1 mg/l | 14 weeks |
| MIBK | Inhalation | endocrine system | Not classified | Multiple animal species | NOAEL 0.41 mg/l | 90 days |
| MIBK | Inhalation | hematopoietic system | Not classified | Multiple animal species | NOAEL 0.41 mg/l | 90 days |
| MIBK | Inhalation | nervous system | Not classified | Multiple animal species | NOAEL 0.41 mg/l | 13 weeks |
| MIBK | Ingestion | endocrine system | Not classified | Rat | NOAEL 1,000 mg/kg/day | 13 weeks |
| MIBK | Ingestion | hematopoietic system | Not classified | Rat | NOAEL 1,000 mg/kg/day | 13 weeks |
| MIBK | Ingestion | liver | Not classified | Rat | NOAEL 1,000 mg/kg/day | 13 weeks |
| MIBK | Ingestion | kidney and/or bladder | Not classified | Rat | NOAEL 1,000 mg/kg/day | 13 weeks |
| MIBK | Ingestion | heart | Not classified | Rat | NOAEL 1,040 mg/kg/day | 120 days |
| MIBK | Ingestion | immune system | Not classified | Rat | NOAEL 1,040 mg/kg/day | 120 days |
| MIBK | Ingestion | muscles | Not classified | Rat | NOAEL 1,040 mg/kg/day | 120 days |
| MIBK | Ingestion | nervous system | Not classified | Rat | NOAEL 1,040 mg/kg/day | 120 days |
| MIBK | Ingestion | respiratory system | Not classified | Rat | NOAEL 1,040 mg/kg/day | 120 days |

**Aspiration Hazard**

| Name | Value |
|---|---|
| MIBK | Some positive data exist, but 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 waste product in a permitted industrial waste facility. As a disposal alternative, incinerate 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.

## 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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|---|---|---|---|
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