# Safety Data Sheet



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|---|---|---|---|
| **Document Group:** | 43-9566-1 | **Version Number:** | 3.00 |
| **Issue Date:** | 02/01/24 | **Supercedes Date:** | 01/18/24 |

## SECTION 1: Identification

**1.1. Product identifier**
3M™ Scotch-Weld™ Structural Adhesive Film AF 502

**Product Identification Numbers**
44-0043-9383-9, 44-0043-9384-7

**1.2. Recommended use and restrictions on use**

**Recommended use**
Aerospace, Industrial use

**1.3. Supplier's details**

| | |
|---|---|
| **MANUFACTURER:** | 3M |
| **DIVISION:** | Automotive and Aerospace Solutions Division |
| **ADDRESS:** | 3M Center, St. Paul, MN 55144-1000, USA |
| **Telephone:** | 1-888-3M HELPS (1-888-364-3577) |

**1.4. Emergency telephone number**
1-800-364-3577 or (651) 737-6501 (24 hours)

## SECTION 2: Hazard identification

**2.1. Hazard classification**
Skin Sensitizer: Category 1.

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

**Symbols**
Exclamation mark |

**Pictograms**

**Hazard Statements**
May cause an allergic skin reaction.

**Precautionary Statements**

**Prevention:**
Avoid breathing dust/fume/gas/mist/vapors/spray.
Wear protective gloves.
Contaminated work clothing must not be allowed out of the workplace.

**Response:**
IF ON SKIN: Wash with plenty of soap and water.
If skin irritation or rash occurs: Get medical advice/attention.
Wash contaminated clothing before reuse.

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

22% of the mixture consists of ingredients of unknown acute oral toxicity.
22% of the mixture consists of ingredients of unknown acute dermal toxicity.

## SECTION 3: Composition/information on ingredients

| Ingredient | C.A.S. No. | % by Wt |
|---|---|---|
| 4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROHYDRIN POLYMER | 25068-38-6 | 20 - 60 Trade Secret * |
| PHENOL-FORMALDEHYDE POLYMER GLYCIDYL ETHER | 28064-14-4 | 10 - 35 Trade Secret * |
| Vinyl-Acrylic Copolymer | Trade Secret* | 10 - 25 |
| BISPHENOL A DIGLYCIDYL ETHER-BISPHENOL A COPOLYMER | 25036-25-3 | <= 20 Trade Secret * |
| ACRYLONITRILE-BUTADIENE POLYMER | 9003-18-3 | < 10 |
| 4,4'-METHYLENEDIPHENYLENE BIS(DIMETHYLUREA) | 10097-09-3 | <= 5 |
| Dicyandiamide | 461-58-5 | <= 5 |
| Phenol, 2-[(4-hydroxyphenyl)methyl]- | 2467-03-0 | < 5 Trade Secret * |
| Siloxanes and Silicones, di-Me, reaction products with silica | 67762-90-7 | < 5 |
| Bis(hydroxyphenyl)methane | 620-92-8 | < 3 Trade Secret * |
| Phenol, 2,2'-methylenebis- | 2467-02-9 | < 2 Trade Secret * |

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

## SECTION 4: First aid measures

**4.1. Description of first aid measures**

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

**Skin Contact:**
Immediately wash with soap and water. Remove contaminated clothing and wash before reuse. If signs/symptoms develop, get

medical attention.

**Eye Contact:**
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. 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 Chloride | During Combustion |
| Hydrogen Cyanide | During Combustion |
| Ammonia | During Combustion |
| Oxides of Nitrogen | During Combustion |

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

## SECTION 6: Accidental release measures

**6.1. Personal precautions, protective equipment and emergency procedures**
Evacuate area. Ventilate the area with fresh air. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

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

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

## SECTION 7: Handling and storage

**7.1. Precautions for safe handling**
Avoid breathing dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke

when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wash contaminated clothing before reuse.

**7.2. Conditions for safe storage including any incompatibilities**
Store away from acids. Store away from strong bases. Store away from amines.

## SECTION 8: Exposure controls/personal protection

**8.1. Control parameters**

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

| Ingredient | C.A.S. No. | Agency | Limit type | Additional Comments |
|---|---|---|---|---|
| SILICA, AMORPHOUS | 67762-90-7 | OSHA | TWA:20 millions of particles/cu. ft.;TWA concentration:0.8 mg/m3 | |

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

**8.2. Exposure controls**

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

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

**Eye/face protection**

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

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

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 vapors and particulates

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

## SECTION 9: Physical and chemical properties

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

| | |
|---|---|
| **Appearance** | |
| **Physical state** | Solid |
| **Color** | Off-White |
| **Specific Physical Form:** | Film |
| **Odor** | Epoxy |
| **Odor threshold** | *No Data Available* |
| **pH** | *Not Applicable* |
| **Melting point** | 50 ºC [*Test Method:*Estimated] |
| **Boiling Point** | *Not Applicable* |
| **Flash Point** | No flash point |
| **Evaporation rate** | *No Data Available* |
| **Flammability (solid, gas)** | Not Classified |
| **Flammable Limits(LEL)** | *Not Applicable* |
| **Flammable Limits(UEL)** | *Not Applicable* |
| **Vapor Pressure** | *Not Applicable* |
| **Vapor Density** | *Not Applicable* |
| **Density** | 1.2 g/cm3 |
| **Specific Gravity** | *No Data Available* |
| **Solubility in Water** | Nil |
| **Solubility- non-water** | Nil |
| **Partition coefficient: n-octanol/ water** | *No Data Available* |
| **Autoignition temperature** | *Not Applicable* |
| **Decomposition temperature** | *No Data Available* |
| **Viscosity** | *No Data Available* |
| **Percent volatile** | *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**
Not determined

**10.5. Incompatible materials**
Strong acids
Strong bases
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.

**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:**
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.

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

**Acute Toxicity**

| Name | Route | Species | Value |
|---|---|---|---|
| Overall product | Dermal | | No data available; calculated ATE >5,000 mg/kg |
| Overall product | Ingestion | | No data available; calculated ATE >5,000 mg/kg |
| 4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROHYDRIN POLYMER | Dermal | Rat | LD50 > 1,600 mg/kg |
| 4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROHYDRIN POLYMER | Ingestion | Rat | LD50 > 1,000 mg/kg |
| PHENOL-FORMALDEHYDE POLYMER GLYCIDYL ETHER | Dermal | Rabbit | LD50 > 6,000 mg/kg |
| PHENOL-FORMALDEHYDE POLYMER GLYCIDYL ETHER | Inhalation-Dust/Mist (4 hours) | Rat | LC50 > 1.7 mg/l |
| PHENOL-FORMALDEHYDE POLYMER GLYCIDYL ETHER | Ingestion | Rat | LD50 > 4,000 mg/kg |
| BISPHENOL A DIGLYCIDYL ETHER-BISPHENOL A COPOLYMER | Dermal | Rat | LD50 > 1,600 mg/kg |
| BISPHENOL A DIGLYCIDYL ETHER-BISPHENOL A COPOLYMER | Ingestion | Rat | LD50 > 1,000 mg/kg |
| ACRYLONITRILE-BUTADIENE POLYMER | Dermal | Rabbit | LD50 > 15,000 mg/kg |
| ACRYLONITRILE-BUTADIENE POLYMER | Ingestion | Rat | LD50 > 30,000 mg/kg |
| 4,4'-METHYLENEDIPHENYLENE BIS(DIMETHYLUREA) | Dermal | Rabbit | LD50 > 2,000 mg/kg |
| Dicyandiamide | Dermal | Rabbit | LD50 > 10,000 mg/kg |
| 4,4'-METHYLENEDIPHENYLENE BIS(DIMETHYLUREA) | Ingestion | Rat | LD50 > 5,000 mg/kg |

| | | | |
|---|---|---|---|
| Dicyandiamide | Ingestion | Rat | LD50 > 30,000 mg/kg |
| Siloxanes and Silicones, di-Me, reaction products with silica | Dermal | Rabbit | LD50 > 5,000 mg/kg |
| Siloxanes and Silicones, di-Me, reaction products with silica | Inhalation-Dust/Mist (4 hours) | Rat | LC50 > 0.691 mg/l |
| Siloxanes and Silicones, di-Me, reaction products with silica | Ingestion | Rat | LD50 > 5,110 mg/kg |
| Phenol, 2-[(4-hydroxyphenyl)methyl]- | Dermal | Professional judgement | LD50 estimated to be 2,000 - 5,000 mg/kg |
| Phenol, 2-[(4-hydroxyphenyl)methyl]- | Ingestion | Rat | LD50 > 2,000 mg/kg |
| Bis(hydroxyphenyl)methane | Dermal | Professional judgement | LD50 estimated to be 2,000 - 5,000 mg/kg |
| Bis(hydroxyphenyl)methane | Ingestion | Rat | LD50 > 2,000 mg/kg |
| Phenol, 2,2'-methylenebis- | Dermal | Professional judgement | LD50 estimated to be 2,000 - 5,000 mg/kg |
| Phenol, 2,2'-methylenebis- | Ingestion | Rat | LD50 > 2,000 mg/kg |

ATE = acute toxicity estimate

**Skin Corrosion/Irritation**

| Name | Species | Value |
|---|---|---|
| 4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROHYDRIN POLYMER | Rabbit | Mild irritant |
| PHENOL-FORMALDEHYDE POLYMER GLYCIDYL ETHER | Rabbit | Minimal irritation |
| BISPHENOL A DIGLYCIDYL ETHER-BISPHENOL A COPOLYMER | Rabbit | Mild irritant |
| ACRYLONITRILE-BUTADIENE POLYMER | Professional judgement | No significant irritation |
| 4,4'-METHYLENEDIPHENYLENE BIS(DIMETHYLUREA) | Rabbit | Minimal irritation |
| Dicyandiamide | Human and animal | Minimal irritation |
| Siloxanes and Silicones, di-Me, reaction products with silica | Rabbit | No significant irritation |
| Phenol, 2-[(4-hydroxyphenyl)methyl]- | Rabbit | No significant irritation |
| Bis(hydroxyphenyl)methane | Rabbit | No significant irritation |
| Phenol, 2,2'-methylenebis- | Rabbit | No significant irritation |

**Serious Eye Damage/Irritation**

| Name | Species | Value |
|---|---|---|
| 4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROHYDRIN POLYMER | Rabbit | Moderate irritant |
| PHENOL-FORMALDEHYDE POLYMER GLYCIDYL ETHER | Rabbit | Mild irritant |
| BISPHENOL A DIGLYCIDYL ETHER-BISPHENOL A COPOLYMER | Rabbit | Moderate irritant |
| ACRYLONITRILE-BUTADIENE POLYMER | Professional judgement | No significant irritation |
| 4,4'-METHYLENEDIPHENYLENE BIS(DIMETHYLUREA) | Rabbit | Mild irritant |
| Dicyandiamide | Professional judgement | Mild irritant |
| Siloxanes and Silicones, di-Me, reaction products with silica | Rabbit | No significant irritation |
| Phenol, 2-[(4-hydroxyphenyl)methyl]- | Rabbit | Corrosive |
| Bis(hydroxyphenyl)methane | Rabbit | Corrosive |
| Phenol, 2,2'-methylenebis- | Rabbit | Corrosive |

**Skin Sensitization**

| Name | Species | Value |
|---|---|---|

| | | |
|---|---|---|
| 4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROHYDRIN POLYMER | Human and animal | Sensitizing |
| PHENOL-FORMALDEHYDE POLYMER GLYCIDYL ETHER | Human and animal | Sensitizing |
| BISPHENOL A DIGLYCIDYL ETHER-BISPHENOL A COPOLYMER | Human and animal | Sensitizing |
| Dicyandiamide | Guinea pig | Not classified |
| Siloxanes and Silicones, di-Me, reaction products with silica | Human and animal | Not classified |
| Phenol, 2-[(4-hydroxyphenyl)methyl]- | Mouse | Sensitizing |
| Bis(hydroxyphenyl)methane | Mouse | Sensitizing |
| Phenol, 2,2'-methylenebis- | Mouse | Sensitizing |

**Respiratory Sensitization**

| Name | Species | Value |
|---|---|---|
| 4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROHYDRIN POLYMER | Human | Not classified |
| BISPHENOL A DIGLYCIDYL ETHER-BISPHENOL A COPOLYMER | Human | Not classified |

**Germ Cell Mutagenicity**

| Name | Route | Value |
|---|---|---|
| 4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROHYDRIN POLYMER | In vivo | Not mutagenic |
| 4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROHYDRIN POLYMER | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| PHENOL-FORMALDEHYDE POLYMER GLYCIDYL ETHER | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| BISPHENOL A DIGLYCIDYL ETHER-BISPHENOL A COPOLYMER | In vivo | Not mutagenic |
| BISPHENOL A DIGLYCIDYL ETHER-BISPHENOL A COPOLYMER | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Dicyandiamide | In Vitro | Not mutagenic |
| Siloxanes and Silicones, di-Me, reaction products with silica | In Vitro | Not mutagenic |
| Phenol, 2-[(4-hydroxyphenyl)methyl]- | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Bis(hydroxyphenyl)methane | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Phenol, 2,2'-methylenebis- | In Vitro | Some positive data exist, but the data are not sufficient for classification |

**Carcinogenicity**

| Name | Route | Species | Value |
|---|---|---|---|
| 4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROHYDRIN POLYMER | Dermal | Mouse | Some positive data exist, but the data are not sufficient for classification |
| BISPHENOL A DIGLYCIDYL ETHER-BISPHENOL A COPOLYMER | Dermal | Mouse | Some positive data exist, but the data are not sufficient for classification |
| Dicyandiamide | Ingestion | Rat | Not carcinogenic |
| Siloxanes and Silicones, di-Me, reaction products with silica | Not Specified | 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 |
|---|---|---|---|---|---|
| 4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROHYDRIN POLYMER | Ingestion | Not classified for female reproduction | Rat | NOAEL 750 mg/kg/day | 2 generation |
| 4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROHYDRIN POLYMER | Ingestion | Not classified for male reproduction | Rat | NOAEL 750 mg/kg/day | 2 generation |

| | | | | | |
|---|---|---|---|---|---|
| 4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROHYDRIN POLYMER | Dermal | Not classified for development | Rabbit | NOAEL 300 mg/kg/day | during organogenesis |
| 4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROHYDRIN POLYMER | Ingestion | Not classified for development | Rat | NOAEL 750 mg/kg/day | 2 generation |
| BISPHENOL A DIGLYCIDYL ETHER-BISPHENOL A COPOLYMER | Ingestion | Not classified for female reproduction | Rat | NOAEL 750 mg/kg/day | 2 generation |
| BISPHENOL A DIGLYCIDYL ETHER-BISPHENOL A COPOLYMER | Ingestion | Not classified for male reproduction | Rat | NOAEL 750 mg/kg/day | 2 generation |
| BISPHENOL A DIGLYCIDYL ETHER-BISPHENOL A COPOLYMER | Dermal | Not classified for development | Rabbit | NOAEL 300 mg/kg/day | during organogenesis |
| BISPHENOL A DIGLYCIDYL ETHER-BISPHENOL A COPOLYMER | Ingestion | Not classified for development | Rat | NOAEL 750 mg/kg/day | 2 generation |
| Dicyandiamide | Ingestion | Not classified for female reproduction | Rat | NOAEL 1,000 mg/kg/day | premating & during gestation |
| Dicyandiamide | Ingestion | Not classified for male reproduction | Rat | NOAEL 1,000 mg/kg/day | 44 days |
| Dicyandiamide | Ingestion | Not classified for development | Rat | NOAEL 1,000 mg/kg/day | premating & during gestation |
| Siloxanes and Silicones, di-Me, reaction products with silica | Ingestion | Not classified for female reproduction | Rat | NOAEL 509 mg/kg/day | 1 generation |
| Siloxanes and Silicones, di-Me, reaction products with silica | Ingestion | Not classified for male reproduction | Rat | NOAEL 497 mg/kg/day | 1 generation |
| Siloxanes and Silicones, di-Me, reaction products with silica | Ingestion | Not classified for development | Rat | NOAEL 1,350 mg/kg/day | during organogenesis |

## Target Organ(s)

### Specific Target Organ Toxicity - single exposure

| Name | Route | Target Organ(s) | Value | Species | Test Result | Exposure Duration |
|---|---|---|---|---|---|---|
| Phenol, 2-[(4-hydroxyphenyl)methyl]- | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | similar health hazards | NOAEL Not available | |
| Bis(hydroxyphenyl)methane | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | similar health hazards | NOAEL Not available | |
| Phenol, 2,2'-methylenebis- | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | similar health hazards | NOAEL Not available | |

### Specific Target Organ Toxicity - repeated exposure

| Name | Route | Target Organ(s) | Value | Species | Test Result | Exposure Duration |
|---|---|---|---|---|---|---|
| 4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROHYDRIN POLYMER | Dermal | liver | Not classified | Rat | NOAEL 1,000 mg/kg/day | 2 years |
| 4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROHYDRIN POLYMER | Dermal | nervous system | Not classified | Rat | NOAEL 1,000 mg/kg/day | 13 weeks |
| 4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROHYDRIN POLYMER | Ingestion | auditory system \| heart \| endocrine system \| hematopoietic system \| liver \| eyes \| kidney and/or bladder | Not classified | Rat | NOAEL 1,000 mg/kg/day | 28 days |
| BISPHENOL A | Dermal | liver | Not classified | Rat | NOAEL | 2 years |

| | | | | | | |
|---|---|---|---|---|---|---|
| DIGLYCIDYL ETHER-BISPHENOL A COPOLYMER | | | | | 1,000 mg/kg/day | |
| BISPHENOL A DIGLYCIDYL ETHER-BISPHENOL A COPOLYMER | Dermal | nervous system | Not classified | Rat | NOAEL 1,000 mg/kg/day | 13 weeks |
| BISPHENOL A DIGLYCIDYL ETHER-BISPHENOL A COPOLYMER | 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 |
| Dicyandiamide | Ingestion | kidney and/or bladder | Not classified | Rat | NOAEL 6,822 mg/kg/day | 13 weeks |
| Siloxanes and Silicones, di-Me, reaction products with silica | Inhalation | respiratory system \| silicosis | Not classified | Human | NOAEL Not available | occupational exposure |
| Phenol, 2-[(4-hydroxyphenyl)methyl]- | Ingestion | endocrine system | Not classified | Rat | LOEL 20 mg/kg/day | 28 days |
| Phenol, 2-[(4-hydroxyphenyl)methyl]- | Ingestion | liver \| kidney and/or bladder | Not classified | Rat | NOEL 20 mg/kg/day | 28 days |
| Phenol, 2-[(4-hydroxyphenyl)methyl]- | Ingestion | hematopoietic system \| nervous system | Not classified | Rat | NOEL 100 mg/kg/day | 28 days |
| Phenol, 2-[(4-hydroxyphenyl)methyl]- | Ingestion | heart \| gastrointestinal tract \| immune system | Not classified | Rat | NOEL 500 mg/kg/day | 28 days |
| Bis(hydroxyphenyl)methane | Ingestion | endocrine system | Not classified | Rat | LOEL 20 mg/kg/day | 28 days |
| Bis(hydroxyphenyl)methane | Ingestion | liver \| kidney and/or bladder | Not classified | Rat | NOEL 20 mg/kg/day | 28 days |
| Bis(hydroxyphenyl)methane | Ingestion | hematopoietic system \| nervous system | Not classified | Rat | NOEL 100 mg/kg/day | 28 days |
| Bis(hydroxyphenyl)methane | Ingestion | heart \| gastrointestinal tract \| immune system | Not classified | Rat | NOEL 500 mg/kg/day | 28 days |
| Phenol, 2,2'-methylenebis- | Ingestion | endocrine system | Not classified | Rat | LOEL 20 mg/kg/day | 28 days |
| Phenol, 2,2'-methylenebis- | Ingestion | liver \| kidney and/or bladder | Not classified | Rat | NOEL 20 mg/kg/day | 28 days |
| Phenol, 2,2'-methylenebis- | Ingestion | hematopoietic system \| nervous system | Not classified | Rat | NOEL 100 mg/kg/day | 28 days |
| Phenol, 2,2'-methylenebis- | Ingestion | heart \| gastrointestinal tract \| immune system | Not classified | Rat | NOEL 500 mg/kg/day | 28 days |

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

**Please contact the address or phone number listed on the first page of the SDS for additional toxicological information on this material and/or its components.**

# SECTION 12: Ecological information

## Ecotoxicological information

Please contact the address or phone number listed on the first page of the SDS for additional ecotoxicological information on this material and/or its components.

## Chemical fate information

Please contact the address or phone number listed on the first page of the SDS for additional chemical fate information on this material and/or its components.

## SECTION 13: Disposal considerations

**13.1. Disposal methods**
Dispose of contents/ container in accordance with the local/regional/national/international regulations.

Dispose of completely cured (or polymerized) material in a permitted industrial waste facility. As a disposal alternative, incinerate uncured product in a permitted waste incineration facility. Proper destruction may require the use of additional fuel during incineration processes. 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. US Federal Regulations
Contact 3M for more information.

**EPCRA 311/312 Hazard Classifications:**

| **Physical Hazards** |
|---|
| Not applicable |

| **Health Hazards** |
|---|
| Respiratory or Skin Sensitization |

### 15.2. State Regulations
Contact 3M for more information.

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

Contact 3M for more information.

### 15.4. International Regulations
Contact 3M for more information.

**This SDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.**

## SECTION 16: Other information

**NFPA Hazard Classification**
**Health:** 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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