# Safety Data Sheet



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| **Document group:** | 31-9758-9 | **Version number:** | 3.12 |
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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(TM) Scotch-Weld(TM) Structural Plastic Adhesive 8010 Blue, Part B

**Product Identification Numbers**
62-2863-8530-7 62-2863-9530-6 62-2863-9532-2

### 1.2. Recommended use and restrictions on use

**Intended Use**
Industrial use

**Specific 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
Respiratory Sensitizer: Category 1.
Skin Sensitizer: Category 1A.
Reproductive Toxicity: Category 1B.
Carcinogenicity: Category 2.

**2.2. Label elements**
**Signal word**
Danger

**Symbols**
Exclamation mark | Health Hazard |

**Pictograms**

**Hazard statements**

May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. May damage fertility or the unborn child. 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 dust/fume/gas/mist/vapours/spray. In case of inadequate ventilation wear respiratory protection. Wear protective gloves. 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 experiencing respiratory symptoms: Call a POISON CENTRE or doctor/physician. 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 locked up.

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

**2.3. Other hazards**
None known.

4% of the mixture consists of ingredients of unknown acute oral toxicity.
4% of the mixture consists of ingredients of unknown acute dermal toxicity.

## SECTION 3: Composition/information on ingredients

This material is a mixture.

| Ingredient | C.A.S. No. | % by Wt | Common Name |
|---|---|---|---|
| Tetrahydrofurfuryl Methacrylate | 2455-24-5 | 30 - 60 Trade Secret * | 2-Propenoic acid, 2-methyl-, (tetrahydro-2-furanyl)methyl ester |
| 2-Ethylhexyl Methacrylate | 688-84-6 | 10 - 30 Trade Secret * | 2-Propenoic acid, 2-methyl-, 2-ethylhexyl ester |
| Acrylate Polymer | Trade Secret | 10 - 30 | Not Applicable |
| Impact Modifier | 20882-04-6 | 5 - 10 Trade Secret * | Butanedioic acid, mono[2-[(2-methyl-1- |

| | | | |
|---|---|---|---|
| | | | oxo-2-propenyl)oxy]ethyl] ester |
| Dibutyl Itaconate | 2155-60-4 | 0.1 - 5 | Butanedioic acid, methylene-, dibutyl ester |
| Glass Microspheres | Trade Secret | 0.1 - 5 | Not Applicable |
| Succinic Anhydride | 108-30-5 | 0.1 - 1 Trade Secret * | 2,5-Furandione, dihydro- |
| Methyl Methacrylate | 80-62-6 | 0 - 0.2 | 2-Propenoic acid, 2-methyl-, methyl ester |
| Tetrahydrofurfuryl Alcohol | 97-99-4 | 0 - 0.2 | 2-Furanmethanol, tetrahydro- |
| Styrene Monomer | 100-42-5 | 0 - 0.1 | Benzene, ethenyl- |
| Maleic Anhydride | 108-31-6 | 0 - 0.001 | 2,5-Furandione |

Acrylate Polymer is a non-hazardous Trade Secret material according to WHMIS criteria.
Glass Microspheres is a non-hazardous Trade Secret material according to WHMIS criteria.

*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 respiratory reaction (difficulty breathing, wheezing, cough, and tightness of chest). 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 |
|---|---|
| Hydrocarbons | During Combustion |
| Carbon monoxide | During Combustion |
| Carbon dioxide | During Combustion |
| Hydrogen Cyanide | During Combustion |
| Oxides of Nitrogen | During Combustion |

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

Wear full protective equipment (Bunker Gear) and a self-contained breathing apparatus (SCBA).

## 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**
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. Store away from heat. Store away from acids.

## 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 |
|---|---|---|---|---|
| Styrene Monomer | 100-42-5 | ACGIH | TWA:10 ppm;STEL:20 ppm | |
| Maleic Anhydride | 108-31-6 | ACGIH | TWA(inhalable fraction and vapor): 0.01 mg/m3 | Dermal/Respiratory Sensitizer |
| Methyl Methacrylate | 80-62-6 | ACGIH | TWA:50 ppm;STEL:100 ppm | Dermal Sensitizer |
| Tetrahydrofurfuryl Alcohol | 97-99-4 | AIHA | TWA:2 mg/m3(0.5 ppm) | SKIN |

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

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

**Eye/face protection**

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

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

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

**Respiratory protection**

An exposure assessment may be needed to decide if a respirator is required. If a respirator is needed, use respirators as part of a full respiratory protection program. Based on the results of the exposure assessment, select from the following respirator type(s) to reduce inhalation exposure:
Half 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** | Liquid |
| **Specific Physical Form:** | Paste |
| **Colour** | Blue-Green |
| **Odour** | Mild Acrylic |
| **Odour threshold** | *No Data Available* |
| **pH** | *Not Applicable* |
| **Melting point/Freezing point** | *Not Applicable* |
| **Boiling point** | *No Data Available* |
| **Flash Point** | 106.1 ºC [*Test Method:*Closed Cup] |
| **Evaporation rate** | *No Data Available* |
| **Flammability (solid, gas)** | Not Applicable |
| **Flammable Limits(LEL)** | *No Data Available* |
| **Flammable Limits(UEL)** | *No Data Available* |
| **Vapour Pressure** | *No Data Available* |
| **Vapour Density and/or Relative Vapour Density** | *No Data Available* |
| **Density** | 0.95 - 1.05 g/ml |

| | |
|---|---|
| **Relative density** | 0.95 - 1.05 [*Ref Std:*WATER=1] |
| **Water solubility** | Slight (less than 10%) |
| **Solubility- non-water** | *No Data Available* |
| **Partition coefficient: n-octanol/ water** | *No Data Available* |
| **Autoignition temperature** | *No Data Available* |
| **Decomposition temperature** | *No Data Available* |
| **Viscosity/Kinematic Viscosity** | *No Data Available* |
| **Volatile Organic Compounds** | 0.6 % weight [*Details:*when used as intended with Part A] |
| **Percent volatile** | *No Data Available* |
| **VOC Less H2O & Exempt Solvents** | 5.5 g/l [*Details:*when used as intended with Part A] |
| **Molecular weight** | *No Data Available* |

**Nanoparticles**
This material contains nanoparticles.

## SECTION 10: Stability and reactivity

**10.1. Reactivity**
This material is considered to be non reactive under normal use conditions.

**10.2. Chemical stability**
Stable.

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

**10.4. Conditions to avoid**
Heat
Sparks and/or flames

**10.5. Incompatible materials**
Strong acids

**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. Allergic Respiratory Reaction: Signs/symptoms may include difficulty breathing, wheezing, cough, and tightness of chest. May cause additional health effects (see below).

**Skin Contact:**
May be harmful in contact with skin. 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. May cause additional health effects (see below).

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

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

**Additional Health Effects:**

**Reproductive/Developmental Toxicity:**
Contains a chemical or chemicals which can cause birth defects or other reproductive harm.

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

| Ingredient | CAS No. | Class Description | Regulation |
|---|---|---|---|
| Styrene | 100-42-5 | Grp. 2A: Probable human carc. | International Agency for Research on Cancer |
| Styrene | 100-42-5 | Anticipated human carcinogen | National Toxicology Program Carcinogens |

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

**Acute Toxicity**

| Name | Route | Species | Value |
|---|---|---|---|
| Overall product | Dermal | | No data available; calculated ATE >2,000 - ≤5,000 mg/kg |
| Overall product | Ingestion | | No data available; calculated ATE >5,000 mg/kg |
| Tetrahydrofurfuryl Methacrylate | Ingestion | Rat | LD50 4,000 mg/kg |
| Tetrahydrofurfuryl Methacrylate | Dermal | similar health hazards | LD50 estimated to be 2,000 - 5,000 mg/kg |
| 2-Ethylhexyl Methacrylate | Dermal | | LD50 estimated to be > 5,000 mg/kg |
| 2-Ethylhexyl Methacrylate | Ingestion | Rat | LD50 > 2,000 mg/kg |
| Impact Modifier | Dermal | | LD50 estimated to be 2,000 - 5,000 mg/kg |
| Impact Modifier | Ingestion | | LD50 estimated to be 2,000 - 5,000 mg/kg |
| Succinic Anhydride | Dermal | Rat | LD50 > 2,000 mg/kg |
| Succinic Anhydride | Ingestion | Rat | LD50 1,510 mg/kg |
| Tetrahydrofurfuryl Alcohol | Dermal | Professional judgement | LD50 estimated to be 2,000 - 5,000 mg/kg |
| Tetrahydrofurfuryl Alcohol | Inhalation-Vapor (4 hours) | Rat | LC50 > 3.1 mg/l |
| Tetrahydrofurfuryl Alcohol | Ingestion | Rat | LD50 > 2,000 mg/kg |
| Methyl Methacrylate | Dermal | Rabbit | LD50 > 5,000 mg/kg |
| Methyl Methacrylate | Inhalation-Vapor (4 hours) | Rat | LC50 29 mg/l |
| Methyl Methacrylate | Ingestion | Rat | LD50 7,900 mg/kg |

| | | | |
|---|---|---|---|
| Styrene Monomer | Dermal | Rat | LD50 > 2,000 mg/kg |
| Styrene Monomer | Inhalation-Vapor (4 hours) | Rat | LC50 11.8 mg/l |
| Styrene Monomer | Ingestion | Rat | LD50 5,000 mg/kg |
| Maleic Anhydride | Dermal | Rabbit | LD50 2,620 mg/kg |
| Maleic Anhydride | Ingestion | Rat | LD50 1,030 mg/kg |

ATE = acute toxicity estimate

**Skin Corrosion/Irritation**

| Name | Species | Value |
|---|---|---|
| Tetrahydrofurfuryl Methacrylate | Rabbit | No significant irritation |
| 2-Ethylhexyl Methacrylate | Rabbit | Minimal irritation |
| Impact Modifier | Not applicable | Irritant |
| Succinic Anhydride | In vitro data | Corrosive |
| Tetrahydrofurfuryl Alcohol | Rabbit | No significant irritation |
| Methyl Methacrylate | Human and animal | Mild irritant |
| Styrene Monomer | Professional judgement | Mild irritant |
| Maleic Anhydride | Human and animal | Corrosive |

**Serious Eye Damage/Irritation**

| Name | Species | Value |
|---|---|---|
| Tetrahydrofurfuryl Methacrylate | Rabbit | No significant irritation |
| 2-Ethylhexyl Methacrylate | Rabbit | No significant irritation |
| Impact Modifier | Not available | Severe irritant |
| Succinic Anhydride | similar health hazards | Corrosive |
| Tetrahydrofurfuryl Alcohol | Rabbit | Severe irritant |
| Methyl Methacrylate | Rabbit | Moderate irritant |
| Styrene Monomer | Professional judgement | Moderate irritant |
| Maleic Anhydride | Rabbit | Corrosive |

**Skin Sensitization**

| Name | Species | Value |
|---|---|---|
| Tetrahydrofurfuryl Methacrylate | In vitro data | Sensitizing |
| 2-Ethylhexyl Methacrylate | Guinea pig | Sensitizing |
| Impact Modifier | similar compounds | Sensitizing |
| Succinic Anhydride | Mouse | Sensitizing |
| Tetrahydrofurfuryl Alcohol | Mouse | Not classified |
| Methyl Methacrylate | Human and animal | Sensitizing |
| Styrene Monomer | Guinea pig | Not classified |

| | | |
|---|---|---|
| Maleic Anhydride | Multiple animal species | Sensitizing |

### Respiratory Sensitization

| Name | Species | Value |
|---|---|---|
| Succinic Anhydride | similar compounds | Sensitizing |
| Methyl Methacrylate | Human | Not classified |
| Maleic Anhydride | Human | Sensitizing |

### Germ Cell Mutagenicity

| Name | Route | Value |
|---|---|---|
| Tetrahydrofurfuryl Methacrylate | In Vitro | Not mutagenic |
| Impact Modifier | In Vitro | Not mutagenic |
| Succinic Anhydride | In Vitro | Not mutagenic |
| Tetrahydrofurfuryl Alcohol | In Vitro | Not mutagenic |
| Methyl Methacrylate | In vivo | Not mutagenic |
| Methyl Methacrylate | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Styrene Monomer | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Styrene Monomer | In vivo | Some positive data exist, but the data are not sufficient for classification |
| Maleic Anhydride | In vivo | Not mutagenic |
| Maleic Anhydride | In Vitro | Some positive data exist, but the data are not sufficient for classification |

### Carcinogenicity

| Name | Route | Species | Value |
|---|---|---|---|
| Succinic Anhydride | Ingestion | Multiple animal species | Not carcinogenic |
| Methyl Methacrylate | Ingestion | Rat | Not carcinogenic |
| Methyl Methacrylate | Inhalation | Human and animal | Not carcinogenic |
| Styrene Monomer | Ingestion | Mouse | Carcinogenic |
| Styrene Monomer | Inhalation | Human and animal | Carcinogenic |

### Reproductive Toxicity

### Reproductive and/or Developmental Effects

| Name | Route | Value | Species | Test result | Exposure Duration |
|---|---|---|---|---|---|
| Tetrahydrofurfuryl Methacrylate | Ingestion | Not classified for male reproduction | Rat | NOAEL 300 mg/kg/day | 29 days |
| Tetrahydrofurfuryl Methacrylate | Ingestion | Toxic to female reproduction | Rat | NOAEL 120 mg/kg/day | premating into lactation |
| Tetrahydrofurfuryl Methacrylate | Ingestion | Toxic to development | Rat | NOAEL 120 mg/kg/day | premating into lactation |
| Tetrahydrofurfuryl Alcohol | Ingestion | Toxic to female reproduction | Rat | NOAEL 50 mg/kg/day | premating into lactation |
| Tetrahydrofurfuryl Alcohol | Dermal | Toxic to male reproduction | Rat | NOAEL 100 mg/kg/day | 13 weeks |
| Tetrahydrofurfuryl Alcohol | Ingestion | Toxic to male reproduction | Rat | NOAEL 150 mg/kg/day | 47 days |
| Tetrahydrofurfuryl Alcohol | Inhalation | Toxic to male reproduction | Rat | NOAEL 0.6 mg/l | 90 days |

| | | | | | |
|---|---|---|---|---|---|
| Tetrahydrofurfuryl Alcohol | Ingestion | Toxic to development | Rat | NOAEL 50 mg/kg/day | premating into lactation |
| Methyl Methacrylate | Inhalation | Not classified for male reproduction | Mouse | NOAEL 36.9 mg/l | |
| Methyl Methacrylate | Inhalation | Not classified for development | Rat | NOAEL 8.3 mg/l | during organogenesis |
| Styrene Monomer | Ingestion | Not classified for female reproduction | Rat | NOAEL 21 mg/kg/day | 3 generation |
| Styrene Monomer | Inhalation | Not classified for female reproduction | Rat | NOAEL 2.1 mg/l | 2 generation |
| Styrene Monomer | Inhalation | Not classified for male reproduction | Rat | NOAEL 2.1 mg/l | 2 generation |
| Styrene Monomer | Ingestion | Not classified for male reproduction | Rat | NOAEL 400 mg/kg/day | 60 days |
| Styrene Monomer | Ingestion | Not classified for development | Rat | NOAEL 400 mg/kg/day | during gestation |
| Styrene Monomer | Inhalation | Not classified for development | Multiple animal species | NOAEL 2.1 mg/l | during gestation |
| Maleic Anhydride | Ingestion | Not classified for female reproduction | Rat | NOAEL 55 mg/kg/day | 2 generation |
| Maleic Anhydride | Ingestion | Not classified for male reproduction | Rat | NOAEL 55 mg/kg/day | 2 generation |
| Maleic Anhydride | Ingestion | Not classified for development | Rat | NOAEL 140 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 |
|---|---|---|---|---|---|---|
| Impact Modifier | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | | NOAEL Not available | |
| Succinic Anhydride | Inhalation | respiratory irritation | May cause respiratory irritation | similar health hazards | NOAEL Not available | |
| Tetrahydrofurfuryl Alcohol | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | similar health hazards | NOAEL Not available | |
| Methyl Methacrylate | Inhalation | respiratory irritation | May cause respiratory irritation | Human | NOAEL Not available | occupational exposure |
| Styrene Monomer | Inhalation | auditory system | Causes damage to organs | Multiple animal species | LOAEL 4.3 mg/l | not available |
| Styrene Monomer | Inhalation | liver | Causes damage to organs | Mouse | LOAEL 2.1 mg/l | not available |
| Styrene Monomer | Inhalation | central nervous system depression | May cause drowsiness or dizziness | Human | NOAEL Not available | occupational exposure |
| Styrene Monomer | Inhalation | respiratory irritation | May cause respiratory irritation | Human and animal | NOAEL Not available | |
| Styrene Monomer | Inhalation | endocrine system | Not classified | Rat | NOAEL Not available | not available |
| Styrene Monomer | Inhalation | kidney and/or bladder | Not classified | Multiple animal species | NOAEL 2.1 mg/l | not available |
| Maleic Anhydride | Inhalation | respiratory irritation | May cause respiratory irritation | Human | NOAEL Not available | |

### Specific Target Organ Toxicity - repeated exposure

| Name | Route | Target Organ(s) | Value | Species | Test result | Exposure Duration |
|---|---|---|---|---|---|---|
| Tetrahydrofurfuryl | Ingestion | hematopoietic | Not classified | Rat | NOAEL 300 | 29 days |

| | | | | | | |
|---|---|---|---|---|---|---|
| Methacrylate | | system \| nervous system | | | mg/kg/day | |
| Succinic Anhydride | Ingestion | heart \| skin \| endocrine system \| bone, teeth, nails, and/or hair \| hematopoietic system \| liver \| immune system \| nervous system \| kidney and/or bladder \| respiratory system | Not classified | Mouse | NOAEL 300 mg/kg/day | 13 weeks |
| Tetrahydrofurfuryl Alcohol | Inhalation | nervous system | Causes damage to organs through prolonged or repeated exposure | Rat | LOAEL 0.2 mg/l | 90 days |
| Tetrahydrofurfuryl Alcohol | Inhalation | hematopoietic system | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 0.6 mg/l | 90 days |
| Tetrahydrofurfuryl Alcohol | Inhalation | eyes | Not classified | Rat | NOAEL 2.1 mg/l | 90 days |
| Tetrahydrofurfuryl Alcohol | Ingestion | hematopoietic system | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 69 mg/kg/day | 91 days |
| Tetrahydrofurfuryl Alcohol | Ingestion | immune system | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 150 mg/kg/day | 28 days |
| Tetrahydrofurfuryl Alcohol | Ingestion | endocrine system \| kidney and/or bladder | Not classified | Rat | NOAEL 600 mg/kg/day | 28 days |
| Tetrahydrofurfuryl Alcohol | Ingestion | liver \| eyes | Not classified | Rat | NOAEL 781 mg/kg/day | 91 days |
| Tetrahydrofurfuryl Alcohol | Ingestion | heart \| nervous system | Not classified | Rat | NOAEL 600 mg/kg/day | 28 days |
| Methyl Methacrylate | Dermal | peripheral nervous system | Not classified | Human | NOAEL Not available | occupational exposure |
| Methyl Methacrylate | Inhalation | olfactory system | Causes damage to organs through prolonged or repeated exposure | Human | NOAEL Not available | occupational exposure |
| Methyl Methacrylate | Inhalation | kidney and/or bladder | Not classified | Multiple animal species | NOAEL Not available | 14 weeks |
| Methyl Methacrylate | Inhalation | liver | Not classified | Mouse | NOAEL 12.3 mg/l | 14 weeks |
| Methyl Methacrylate | Inhalation | respiratory system | Not classified | Human | NOAEL Not available | occupational exposure |
| Styrene Monomer | Inhalation | auditory system | Causes damage to organs through prolonged or repeated exposure | Human | NOAEL not available | occupational exposure |
| Styrene Monomer | Inhalation | eyes | Causes damage to organs through prolonged or repeated exposure | Human | NOAEL Not available | occupational exposure |
| Styrene Monomer | Inhalation | liver | May cause damage to organs though prolonged or repeated exposure | Mouse | LOAEL 0.85 mg/l | 13 weeks |
| Styrene Monomer | Inhalation | nervous system | Some positive data exist, but the data are not sufficient for classification | Multiple animal species | LOAEL 1.1 mg/l | not available |
| Styrene Monomer | Inhalation | hematopoietic system | Not classified | Rat | NOAEL 0.85 mg/l | 7 days |
| Styrene Monomer | Inhalation | endocrine system | Not classified | Rat | NOAEL 0.6 mg/l | 10 days |
| Styrene Monomer | Inhalation | respiratory system | Not classified | Multiple animal species | LOAEL 0.09 mg/l | not available |
| Styrene Monomer | Inhalation | heart \| gastrointestinal tract \| bone, teeth, nails, and/or hair \| muscles \| kidney and/or bladder | Not classified | Multiple animal species | NOAEL 4.3 mg/l | 2 years |
| Styrene Monomer | Ingestion | nervous system | Some positive data exist, but the | Rat | LOAEL 500 | 8 weeks |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | | data are not sufficient for classification | | mg/kg/day | |
| Styrene Monomer | Ingestion | immune system | Some positive data exist, but the data are not sufficient for classification | Multiple animal species | NOAEL Not available | not available |
| Styrene Monomer | Ingestion | liver \| kidney and/or bladder | Not classified | Rat | NOAEL 677 mg/kg/day | 6 months |
| Styrene Monomer | Ingestion | hematopoietic system | Not classified | Dog | NOAEL 600 mg/kg/day | 470 days |
| Styrene Monomer | Ingestion | heart \| respiratory system | Not classified | Rat | NOAEL 35 mg/kg/day | 105 weeks |
| Maleic Anhydride | Inhalation | respiratory system | Causes damage to organs through prolonged or repeated exposure | Rat | LOAEL 0.0011 mg/l | 6 months |
| Maleic Anhydride | Inhalation | endocrine system \| hematopoietic system \| nervous system \| kidney and/or bladder \| heart \| liver \| eyes | Not classified | Rat | NOAEL 0.0098 mg/l | 6 months |
| Maleic Anhydride | Ingestion | kidney and/or bladder | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 55 mg/kg/day | 80 days |
| Maleic Anhydride | Ingestion | liver | Some positive data exist, but the data are not sufficient for classification | Rat | LOAEL 250 mg/kg/day | 183 days |
| Maleic Anhydride | Ingestion | heart \| nervous system | Not classified | Rat | NOAEL 600 mg/kg/day | 183 days |
| Maleic Anhydride | Ingestion | gastrointestinal tract | Not classified | Rat | NOAEL 150 mg/kg/day | 80 days |
| Maleic Anhydride | Ingestion | hematopoietic system | Not classified | Dog | NOAEL 60 mg/kg/day | 90 days |
| Maleic Anhydride | Ingestion | skin \| endocrine system \| immune system \| eyes \| respiratory system | Not classified | Rat | NOAEL 150 mg/kg/day | 80 days |

**Aspiration Hazard**

| Name | Value |
|---|---|
| Styrene Monomer | 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 Japan Chemical Substance Control Law. Certain restrictions may apply. Contact the selling division for additional information. 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:** 0 **Special Hazards:** None

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

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**3M Canada SDSs are available at www.3M.ca**