



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™ Polyurethane Adhesive Sealant 550 Fast Cure

Product Identification Numbers

| | | | | |
|----------------|----------------|----------------|----------------|----------------|
| 62-5265-3430-0 | 62-5265-3431-8 | 62-5265-3435-9 | 62-5265-3436-7 | 62-5265-3530-7 |
| 62-5265-3531-5 | 62-5265-3532-3 | 62-5265-3930-9 | 62-5265-3931-7 | 62-5265-3932-5 |
| 62-5265-3936-6 | 62-5265-3937-4 | 62-5265-3938-2 | 62-5265-5230-2 | 62-5265-5231-0 |
| 62-5265-5232-8 | 62-5265-5235-1 | 62-5265-5236-9 | 62-5265-5237-7 | 62-5265-5238-5 |
| 62-5265-5239-3 | 62-5265-8530-2 | 62-5265-8531-0 | 62-5265-9530-1 | 62-5266-3430-8 |
| 62-5266-3431-6 | 62-5266-3435-7 | 62-5266-3436-5 | 62-5266-3437-3 | 62-5266-3530-5 |
| 62-5266-3531-3 | 62-5266-3532-1 | 62-5266-3930-7 | 62-5266-3931-5 | 62-5266-3932-3 |
| 62-5266-3934-9 | 62-5266-5230-0 | 62-5266-5231-8 | 62-5266-5232-6 | 62-5266-5235-9 |
| 62-5266-5236-7 | 62-5266-5237-5 | 62-5266-5238-3 | 62-5266-8531-8 | 62-5266-8532-6 |
| 62-5266-8536-7 | 62-5266-9530-9 | 62-5266-9531-7 | 62-5266-9532-5 | 62-5267-3430-6 |
| 62-5267-3431-4 | 62-5267-3435-5 | 62-5267-3436-3 | 62-5267-3437-1 | 62-5267-3530-3 |
| 62-5267-3531-1 | 62-5267-3532-9 | 62-5267-3930-5 | 62-5267-3931-3 | 62-5267-3932-1 |
| 62-5267-3936-2 | 62-5267-3937-0 | 62-5267-3938-8 | 62-5267-5230-8 | 62-5267-5231-6 |
| 62-5267-5232-4 | 62-5267-5235-7 | 62-5267-5236-5 | 62-5267-5237-3 | 62-5267-5238-1 |
| 62-5267-5239-9 | 62-5267-8530-8 | 62-5267-8531-6 | 62-5267-9530-7 | 62-5267-9531-5 |
| 62-5267-9532-3 | 70-1239-3280-A | A7-0123-9328-0 | DE-2729-2792-7 | DE-2729-2937-8 |
| DE-2729-2938-6 | DE-2729-2939-4 | DE-2729-2940-2 | DE-2729-2941-0 | DE-2729-2942-8 |
| DE-2729-2943-6 | DE-2729-2944-4 | DE-2729-2945-1 | DE-2729-2946-9 | FI-3000-0002-8 |
| FI-3000-0064-8 | FI-3000-0065-5 | FI-3000-0066-3 | FI-3000-0086-1 | FI-3000-0087-9 |
| FI-3000-0158-8 | FI-3000-0159-6 | FI-3000-0160-4 | FI-3000-0161-2 | FI-3000-0162-0 |
| FI-3000-0163-8 | FI-3000-0164-6 | FI-3000-0165-3 | FI-3000-0166-1 | FI-3000-0167-9 |
| FI-3000-0188-5 | FI-3000-0302-2 | FI-3000-0350-1 | FI-3000-0377-4 | FI-3000-0380-8 |
| FI-3000-0421-0 | FI-3000-0427-7 | FI-3000-0428-5 | FI-3000-0435-0 | GT-5000-9028-4 |
| GT-5000-9029-2 | GT-5000-9030-0 | HB-0040-9063-3 | HB-0040-9064-1 | HB-0040-9986-5 |
| HB-0040-9987-3 | HB-0040-9988-1 | HB-0040-9989-9 | HB-0040-9990-7 | HB-0040-9991-5 |
| HB-0040-9992-3 | HB-0041-0110-9 | HB-0041-0111-7 | HB-0041-0112-5 | HB-0041-0113-3 |
| HB-0041-0114-1 | HB-0041-0115-8 | HB-0041-0116-6 | HB-0041-0117-4 | HB-0041-0118-2 |
| HB-0041-1375-7 | HB-0041-1813-7 | HB-0041-4885-2 | HB-0041-5179-9 | HB-0041-5450-4 |
| HB-0041-5465-2 | HB-0041-5467-8 | HB-0041-5468-6 | HB-0041-5602-0 | HB-0041-5603-8 |
| HB-0041-5606-1 | HB-0041-5632-7 | HB-0047-8041-5 | HB-0047-8042-3 | HB-0047-8043-1 |
| HB-0047-8044-9 | HB-0047-8053-0 | HB-0047-8054-8 | HB-0047-8055-5 | HB-0047-8058-9 |
| KS-9990-0653-3 | KS-9990-0654-1 | KS-9990-0655-8 | KS-9990-0656-6 | KS-9990-0657-4 |
| XA-0092-2017-0 | XF-6001-4070-1 | XF-6001-4071-9 | XF-6001-4196-4 | |

1.2. Recommended use and restrictions on use

Intended Use

Sealant

Specific Use

Fast curing.

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 / 1800 364 3577

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

Respiratory Sensitizer: Category 1.

Skin Sensitizer: Category 1.

Carcinogenicity: Category 2.

Specific Target Organ Toxicity (single exposure): Category 1.

Specific Target Organ Toxicity (repeated exposure): Category 1.

2.2. Label elements

Signal word

Danger

Symbols

Exclamation mark | Health Hazard |

Pictograms



Hazard statements

May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. Suspected of causing cancer.

Causes damage to organs: sensory organs |

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

May cause damage to organs through prolonged or repeated exposure: sensory organs |

Precautionary statements

Prevention:

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume/gas/mist/vapours/spray. In case of inadequate ventilation wear respiratory protection. Wear protective gloves. Do not eat, drink or smoke when using this product. Wash exposed skin thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace.

Response:

IF INHALED: Remove person to fresh air and keep comfortable for breathing. If 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.

SECTION 3: Composition/information on ingredients

This material is a mixture.

| Ingredient | C.A.S. No. | % by Wt | Common Name |
|--|--------------|------------------------|---|
| Poly(Vinyl Chloride) | 9002-86-2 | 20 - 35 | Ethene, chloro-, homopolymer |
| Urethane Polymer | Trade Secret | 25 - 35 | Not Applicable |
| Plasticizer | 70775-94-9 | 10 - 30 | Sulfonic acids, C10-18-alkane, Ph esters |
| Xylene | 1330-20-7 | 3 - 7 Trade Secret * | Dimethylbenzene |
| Calcium Oxide | 1305-78-8 | < 5 | Calcium oxide (CaO) |
| Ethylbenzene | 100-41-4 | 1 - 5 Trade Secret * | Benzene, ethyl- |
| Titanium Dioxide | 13463-67-7 | 0 - 2.41 | Titanium oxide (TiO ₂) |
| Petroleum Distillate | 64742-47-8 | < 2 | No Data Available |
| p,p'-Methylenebis(Phenyl Isocyanate) | 101-68-8 | 0.1 - 1 Trade Secret * | Benzene, 1,1'-methylenebis[4-isocyanato- |
| Carbon Black | 1333-86-4 | 0 - 0.21 | Carbon black |
| Bis(1,2,2,6,6-pentamethyl-4-piperidiny) sebacate | 41556-26-7 | < 0.1 | Decanedioic acid, bis(1,2,2,6,6-pentamethyl-4-piperidiny) ester |

Urethane Polymer 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:

Immediately flush with large amounts of water for at least 15 minutes. Remove contact lenses if easy to do. Continue rinsing. Immediately 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). Target organ effects. See Section 11 for additional details. Target organ effects following prolonged or repeated exposure. See Section 11 for additional details.

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

Not applicable

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

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

5.2. Unsuitable extinguishing media

None Determined

5.3. Special hazards arising from the substance or mixture

None inherent in this product.

Hazardous Decomposition or By-Products

Substance

Carbon monoxide
Carbon dioxide
Hydrogen Chloride
Hydrogen Cyanide
Oxides of Nitrogen
Oxides of Sulfur

Condition

During Combustion
During Combustion
During Combustion
During Combustion
During Combustion
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. 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 container approved for transportation by appropriate authorities, but do not seal the container for 48 hours to avoid pressure build-up. Clean up residue. 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. 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

Keep container tightly closed to prevent contamination with water or air. If contamination is suspected, do not reseal container. Protect from sunlight. Store away from heat. 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 |
|--------------------------------------|------------|--------|--|---------------------|
| Ethylbenzene | 100-41-4 | ACGIH | TWA:20 ppm | |
| p,p'-Methylenebis(Phenyl Isocyanate) | 101-68-8 | ACGIH | TWA:0.005 ppm | |
| Calcium Oxide | 1305-78-8 | ACGIH | TWA:2 mg/m ³ | |
| Xylene | 1330-20-7 | ACGIH | TWA:20 ppm | |
| Carbon Black | 1333-86-4 | ACGIH | TWA(inhalable fraction):3 mg/m ³ | |
| Titanium Dioxide | 13463-67-7 | ACGIH | TWA(Respirable nanoscale particles):0.2 mg/m ³ ;TWA(Respirable finescale particles):2.5 mg/m ³ | |
| Kerosine (petroleum) | 64742-47-8 | ACGIH | TWA(as total hydrocarbon vapor, non-aerosol):200 mg/m ³ | SKIN |
| Poly(Vinyl Chloride) | 9002-86-2 | ACGIH | TWA(respirable fraction):1 mg/m ³ | |

ACGIH : American Conference of Governmental Industrial Hygienists

AIHA : American Industrial Hygiene Association

CMRG : Chemical Manufacturer's Recommended Guidelines

TWA: Time-Weighted-Average

STEL: Short Term Exposure Limit

CEIL: Ceiling

8.2. Exposure controls**8.2.1. Engineering controls**

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

8.2.2. Personal protective equipment (PPE)**Eye/face protection**

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

Safety Glasses with side shields

Skin/hand protection

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

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

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 | Solid |
| Specific Physical Form: | Paste |
| Colour | Multicolour |
| Odour | Mild Xylene |
| Odour threshold | <i>No Data Available</i> |
| pH | <i>Not Applicable</i> |
| Melting point/Freezing point | <i>No Data Available</i> |
| Boiling point | ≥ 137 °C |
| Flash Point | No flash point |
| Evaporation rate | <i>No Data Available</i> |
| Flammability | Not Applicable |
| Flammable Limits(LEL) | <i>Not Applicable</i> |
| Flammable Limits(UEL) | <i>Not Applicable</i> |
| Vapour Pressure | <i>Not Applicable</i> |
| Vapour Density and/or Relative Vapour Density | <i>Not Applicable</i> |
| Density | 1.2 g/ml |
| Relative density | 1.2 [Ref Std: WATER=1] |
| Water solubility | Nil |
| Solubility- non-water | <i>No Data Available</i> |
| Partition coefficient: n-octanol/ water | <i>No Data Available</i> |
| Autoignition temperature | ≥ 200 °C |
| Decomposition temperature | <i>No Data Available</i> |
| Kinematic Viscosity | 250,000 mm ² /sec |
| Volatile Organic Compounds | <i>No Data Available</i> |
| Percent volatile | <i>No Data Available</i> |
| VOC Less H₂O & Exempt Solvents | 55 g/l [Test Method: tested per EPA method 24] |
| Molecular weight | <i>No Data Available</i> |
| Solids Content | 91 - 95.4 % weight |

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
Alcohols
Water

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:

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:

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

May cause additional health effects (see below).

Additional Health Effects:

Single exposure may cause target organ effects:

Auditory Effects: Signs/symptoms may include hearing impairment, balance dysfunction and ringing in the ears.

Prolonged or repeated exposure may cause target organ effects:

Auditory Effects: Signs/symptoms may include hearing impairment, balance dysfunction and ringing in the ears.

Neurological Effects: Signs/symptoms may include personality changes, lack of coordination, sensory loss, tingling or numbness of the extremities, weakness, tremors, and/or changes in blood pressure and heart rate.

Carcinogenicity:

Contains a chemical or chemicals which can cause cancer.

| Ingredient | CAS No. | Class Description | Regulation |
|-------------------|----------------|-------------------------------|---|
| Carbon black | 1333-86-4 | Grp. 2B: Possible human carc. | International Agency for Research on Cancer |
| Ethylbenzene | 100-41-4 | Grp. 2B: Possible human carc. | International Agency for Research on Cancer |
| Titanium dioxide | 13463-67-7 | Grp. 2B: Possible human carc. | International Agency for Research on Cancer |

Additional Information:

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 | Dermal | | No data available; calculated ATE >5,000 mg/kg |
| Overall product | Inhalation-Vapor(4 hr) | | No data available; calculated ATE >50 mg/l |
| Overall product | Ingestion | | No data available; calculated ATE >5,000 mg/kg |
| Poly(Vinyl Chloride) | Dermal | | LD50 estimated to be > 5,000 mg/kg |
| Poly(Vinyl Chloride) | Ingestion | | LD50 estimated to be > 5,000 mg/kg |
| Plasticizer | Dermal | Rat | LD50 > 1,000 mg/kg |
| Plasticizer | Ingestion | Rat | LD50 > 5,000 mg/kg |
| Xylene | Dermal | Rabbit | LD50 > 4,200 mg/kg |
| Xylene | Inhalation-Vapor (4 hours) | Rat | LC50 29 mg/l |
| Xylene | Ingestion | Rat | LD50 3,523 mg/kg |
| Titanium Dioxide | Dermal | Rabbit | LD50 > 10,000 mg/kg |
| Titanium Dioxide | Inhalation-Dust/Mist (4 hours) | Rat | LC50 > 6.82 mg/l |
| Titanium Dioxide | Ingestion | Rat | LD50 > 10,000 mg/kg |
| Calcium Oxide | Ingestion | Rat | LD50 > 2,500 mg/kg |
| Calcium Oxide | Dermal | similar compounds | LD50 > 2,500 mg/kg |
| Ethylbenzene | Dermal | Rabbit | LD50 15,433 mg/kg |
| Ethylbenzene | Inhalation-Vapor (4 hours) | Rat | LC50 17.4 mg/l |
| Ethylbenzene | Ingestion | Rat | LD50 4,769 mg/kg |
| Petroleum Distillate | Ingestion | Rat | LD50 > 15,000 mg/kg |
| Petroleum Distillate | Dermal | similar compounds | LD50 > 5,000 mg/kg |

3M™ Polyurethane Adhesive Sealant 550 Fast Cure

| | | | |
|--|--------------------------------|------------------------|--|
| p,p'-Methylenebis(Phenyl Isocyanate) | Dermal | Rabbit | LD50 > 5,000 mg/kg |
| p,p'-Methylenebis(Phenyl Isocyanate) | Inhalation-Dust/Mist (4 hours) | Rat | LC50 0.368 mg/l |
| p,p'-Methylenebis(Phenyl Isocyanate) | Ingestion | Rat | LD50 31,600 mg/kg |
| Carbon Black | Dermal | Rabbit | LD50 > 3,000 mg/kg |
| Carbon Black | Ingestion | Rat | LD50 > 8,000 mg/kg |
| Bis(1,2,2,6,6-pentamethyl-4-piperidiny) sebacate | Dermal | Professional judgement | LD50 estimated to be 2,000 - 5,000 mg/kg |
| Bis(1,2,2,6,6-pentamethyl-4-piperidiny) sebacate | Ingestion | Rat | LD50 3,125 mg/kg |

ATE = acute toxicity estimate

Skin Corrosion/Irritation

| Name | Species | Value |
|--|-------------------------|---------------------------|
| Poly(Vinyl Chloride) | Professional judgement | No significant irritation |
| Xylene | Rabbit | Mild irritant |
| Titanium Dioxide | Rabbit | No significant irritation |
| Calcium Oxide | Human | Corrosive |
| Ethylbenzene | Rabbit | Mild irritant |
| Petroleum Distillate | similar compounds | Mild irritant |
| p,p'-Methylenebis(Phenyl Isocyanate) | official classification | Irritant |
| Carbon Black | Rabbit | No significant irritation |
| Bis(1,2,2,6,6-pentamethyl-4-piperidiny) sebacate | Rabbit | Minimal irritation |

Serious Eye Damage/Irritation

| Name | Species | Value |
|--|-------------------------|---------------------------|
| Overall product | Rabbit | Mild irritant |
| Xylene | Rabbit | Mild irritant |
| Titanium Dioxide | Rabbit | No significant irritation |
| Calcium Oxide | Rabbit | Corrosive |
| Ethylbenzene | Rabbit | Moderate irritant |
| Petroleum Distillate | similar compounds | No significant irritation |
| p,p'-Methylenebis(Phenyl Isocyanate) | official classification | Severe irritant |
| Carbon Black | Rabbit | No significant irritation |
| Bis(1,2,2,6,6-pentamethyl-4-piperidiny) sebacate | Rabbit | Mild irritant |

Skin Sensitization

| Name | Species | Value |
|--|-------------------|----------------|
| Titanium Dioxide | Human and animal | Not classified |
| Ethylbenzene | Human | Not classified |
| Petroleum Distillate | similar compounds | Not classified |
| p,p'-Methylenebis(Phenyl Isocyanate) | Mouse | Sensitizing |
| Bis(1,2,2,6,6-pentamethyl-4-piperidiny) sebacate | Guinea pig | Sensitizing |

Respiratory Sensitization

| Name | Species | Value |
|--------------------------------------|---------|-------------|
| p,p'-Methylenebis(Phenyl Isocyanate) | Human | Sensitizing |

Germ Cell Mutagenicity

| Name | Route | Value |
|---|----------|--|
| Poly(Vinyl Chloride) | In Vitro | Not mutagenic |
| Xylene | In Vitro | Not mutagenic |
| Xylene | In vivo | Not mutagenic |
| Titanium Dioxide | In Vitro | Not mutagenic |
| Titanium Dioxide | In vivo | Not mutagenic |
| Calcium Oxide | In Vitro | Not mutagenic |
| Ethylbenzene | In vivo | Not mutagenic |
| Ethylbenzene | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Petroleum Distillate | In Vitro | Not mutagenic |
| p,p'-Methylenebis(Phenyl Isocyanate) | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Carbon Black | In Vitro | Not mutagenic |
| Carbon Black | In vivo | Some positive data exist, but the data are not sufficient for classification |
| Bis(1,2,2,6,6-pentamethyl-4-piperidinyl) sebacate | In vivo | Not mutagenic |
| Bis(1,2,2,6,6-pentamethyl-4-piperidinyl) sebacate | In Vitro | Some positive data exist, but the data are not sufficient for classification |

Carcinogenicity

| Name | Route | Species | Value |
|--------------------------------------|---------------|-------------------------|--|
| Poly(Vinyl Chloride) | Not Specified | Rat | Some positive data exist, but the data are not sufficient for classification |
| Xylene | Dermal | Rat | Not carcinogenic |
| Xylene | Ingestion | Multiple animal species | Not carcinogenic |
| Xylene | Inhalation | Human | Some positive data exist, but the data are not sufficient for classification |
| Titanium Dioxide | Ingestion | Multiple animal species | Not carcinogenic |
| Titanium Dioxide | Inhalation | Rat | Carcinogenic |
| Ethylbenzene | Inhalation | Multiple animal species | Carcinogenic |
| p,p'-Methylenebis(Phenyl Isocyanate) | Inhalation | Rat | Some positive data exist, but the data are not sufficient for classification |
| Carbon Black | Dermal | Mouse | Not carcinogenic |
| Carbon Black | Ingestion | Mouse | Not carcinogenic |
| Carbon Black | Inhalation | Rat | Carcinogenic |

Reproductive Toxicity

Reproductive and/or Developmental Effects

| Name | Route | Value | Species | Test result | Exposure Duration |
|----------------------|---------------|--|-----------------|---------------------|-----------------------|
| Poly(Vinyl Chloride) | Not Specified | Not classified for development | Mouse | NOAEL Not available | during gestation |
| Xylene | Inhalation | Not classified for female reproduction | Human | NOAEL Not available | occupational exposure |
| Xylene | Ingestion | Not classified for development | Mouse | NOAEL Not available | during organogenesis |
| Xylene | Inhalation | Not classified for development | Multiple animal | NOAEL Not available | during gestation |

3M™ Polyurethane Adhesive Sealant 550 Fast Cure

| | | | species | | |
|--|------------|--------------------------------------|---------|-----------------------|------------------------------|
| Ethylbenzene | Inhalation | Not classified for development | Rat | NOAEL 4.3 mg/l | premating & during gestation |
| p,p'-Methylenebis(Phenyl Isocyanate) | Inhalation | Not classified for development | Rat | NOAEL 0.004 mg/l | during organogenesis |
| Bis(1,2,2,6,6-pentamethyl-4-piperidiny) sebacate | Ingestion | Not classified for male reproduction | Rat | NOAEL 1,493 mg/kg/day | 29 days |
| Bis(1,2,2,6,6-pentamethyl-4-piperidiny) sebacate | Ingestion | Not classified for development | Rat | NOAEL 209 mg/kg/day | premating into lactation |
| Bis(1,2,2,6,6-pentamethyl-4-piperidiny) sebacate | Ingestion | Toxic to female reproduction | Rat | NOAEL 804 mg/kg/day | premating into lactation |

Lactation

| Name | Route | Species | Value |
|--------|-----------|---------|--|
| Xylene | Ingestion | Mouse | Not classified for effects on or via lactation |

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

| Name | Route | Target Organ(s) | Value | Species | Test result | Exposure Duration |
|--------------------------------------|------------|-----------------------------------|--|-------------------------|---------------------|-----------------------|
| Xylene | Inhalation | auditory system | Causes damage to organs | Rat | LOAEL 6.3 mg/l | 8 hours |
| Xylene | Inhalation | central nervous system depression | May cause drowsiness or dizziness | Human | NOAEL Not available | |
| Xylene | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | Human | NOAEL Not available | |
| Xylene | Inhalation | eyes | Not classified | Rat | NOAEL 3.5 mg/l | not available |
| Xylene | Inhalation | liver | Not classified | Multiple animal species | NOAEL Not available | |
| Xylene | Ingestion | central nervous system depression | May cause drowsiness or dizziness | Multiple animal species | NOAEL Not available | |
| Xylene | Ingestion | eyes | Not classified | Rat | NOAEL 250 mg/kg | not applicable |
| Calcium Oxide | Inhalation | respiratory irritation | May cause respiratory irritation | Not available | NOAEL Not available | occupational exposure |
| Ethylbenzene | Inhalation | central nervous system depression | May cause drowsiness or dizziness | Human | NOAEL Not available | |
| Ethylbenzene | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | Human and animal | NOAEL Not available | |
| Petroleum Distillate | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | similar health hazards | NOAEL Not available | |
| p,p'-Methylenebis(Phenyl Isocyanate) | Inhalation | respiratory irritation | May cause respiratory irritation | official classification | NOAEL Not available | |

Specific Target Organ Toxicity - repeated exposure

| Name | Route | Target Organ(s) | Value | Species | Test result | Exposure Duration |
|----------------------|------------|--------------------|--|-------------------------|------------------|-------------------|
| Poly(Vinyl Chloride) | Inhalation | respiratory system | Not classified | Multiple animal species | NOAEL 0.013 mg/l | 22 months |
| Xylene | Inhalation | nervous system | Causes damage to organs through prolonged or repeated exposure | Rat | LOAEL 0.4 mg/l | 4 weeks |
| Xylene | Inhalation | auditory system | May cause damage to organs though prolonged or repeated | Rat | LOAEL 7.8 mg/l | 5 days |

3M™ Polyurethane Adhesive Sealant 550 Fast Cure

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| | | | exposure | | | |
| Xylene | Inhalation | liver | Not classified | Multiple animal species | NOAEL Not available | |
| Xylene | Inhalation | heart endocrine system gastrointestinal tract hematopoietic system muscles kidney and/or bladder respiratory system | Not classified | Multiple animal species | NOAEL 3.5 mg/l | 13 weeks |
| Xylene | Ingestion | auditory system | Not classified | Rat | NOAEL 900 mg/kg/day | 2 weeks |
| Xylene | Ingestion | kidney and/or bladder | Not classified | Rat | NOAEL 1,500 mg/kg/day | 90 days |
| Xylene | Ingestion | liver | Not classified | Multiple animal species | NOAEL Not available | |
| Xylene | Ingestion | heart skin endocrine system bone, teeth, nails, and/or hair hematopoietic system immune system nervous system respiratory system | Not classified | Mouse | NOAEL 1,000 mg/kg/day | 103 weeks |
| Titanium Dioxide | Inhalation | respiratory system | Some positive data exist, but the data are not sufficient for classification | Rat | LOAEL 0.01 mg/l | 2 years |
| Titanium Dioxide | Inhalation | pulmonary fibrosis | Not classified | Human | NOAEL Not available | occupational exposure |
| Ethylbenzene | Inhalation | kidney and/or bladder | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 1.1 mg/l | 2 years |
| Ethylbenzene | Inhalation | liver | Some positive data exist, but the data are not sufficient for classification | Mouse | NOAEL 1.1 mg/l | 103 weeks |
| Ethylbenzene | Inhalation | hematopoietic system | Not classified | Rat | NOAEL 3.4 mg/l | 28 days |
| Ethylbenzene | Inhalation | auditory system | Not classified | Rat | NOAEL 2.4 mg/l | 5 days |
| Ethylbenzene | Inhalation | endocrine system | Not classified | Mouse | NOAEL 3.3 mg/l | 103 weeks |
| Ethylbenzene | Inhalation | gastrointestinal tract | Not classified | Rat | NOAEL 3.3 mg/l | 2 years |
| Ethylbenzene | Inhalation | bone, teeth, nails, and/or hair muscles | Not classified | Multiple animal species | NOAEL 4.2 mg/l | 90 days |
| Ethylbenzene | Inhalation | heart immune system respiratory system | Not classified | Multiple animal species | NOAEL 3.3 mg/l | 2 years |
| Ethylbenzene | Ingestion | liver kidney and/or bladder | Not classified | Rat | NOAEL 680 mg/kg/day | 6 months |
| Petroleum Distillate | Inhalation | liver | Not classified | Rat | NOAEL 6 mg/l | 13 weeks |
| Petroleum Distillate | Inhalation | kidney and/or bladder | Not classified | Rat | LOAEL 1.5 mg/l | 13 weeks |
| Petroleum Distillate | Inhalation | hematopoietic system | Not classified | Rat | NOAEL 6 mg/l | 13 weeks |
| Petroleum Distillate | Ingestion | liver | Not classified | Rat | NOAEL 1,000 mg/kg/day | 13 weeks |
| Petroleum Distillate | Ingestion | kidney and/or bladder | Not classified | Rat | LOAEL 100 mg/kg/day | 13 weeks |
| Petroleum Distillate | Ingestion | hematopoietic | Not classified | Rat | NOAEL | 13 weeks |

3M™ Polyurethane Adhesive Sealant 550 Fast Cure

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| | | system eyes | | | 1,000 mg/kg/day | |
| p,p'-Methylenebis(Phenyl Isocyanate) | Inhalation | respiratory system | Causes damage to organs through prolonged or repeated exposure | Rat | LOAEL 0.004 mg/l | 13 weeks |
| Carbon Black | Inhalation | pneumoconiosis | Not classified | Human | NOAEL Not available | occupational exposure |
| Bis(1,2,2,6,6-pentamethyl-4-piperidinyl) sebacate | Ingestion | eyes | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 300 mg/kg/day | 28 days |
| Bis(1,2,2,6,6-pentamethyl-4-piperidinyl) sebacate | Ingestion | gastrointestinal tract liver immune system heart endocrine system hematopoietic system nervous system kidney and/or bladder | Not classified | Rat | NOAEL 1,493 mg/kg/day | 29 days |

Aspiration Hazard

| Name | Value |
|----------------------|-------------------|
| Xylene | Aspiration hazard |
| Ethylbenzene | Aspiration hazard |
| Petroleum Distillate | 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 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 manufacturer for more information. The components of this material are in compliance with the provisions of the Korea Chemical Control Act. Certain restrictions may apply. Contact the selling division for additional information. The

components of this material are in compliance with the provisions of Japan Chemical Substance Control Law. Certain restrictions may apply. Contact the selling division for additional information. The components of this material are in compliance with the provisions of Philippines RA 6969 requirements. Certain restrictions may apply. Contact the selling division for additional information. 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