



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™ Windo-Weld™ Super Fast Urethane, PN 08609

1.2. Recommended use and restrictions on use

Intended Use

Adhesive

Specific Use

Adhesive/Sealant for Windshields

Restrictions on use

Not applicable

1.3. Supplier's details

| | |
|-------------------|--|
| Company: | 3M Canada Company |
| Division: | Automotive Aftermarket |
| 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 1A.

Carcinogenicity: Category 1A.

Reproductive Toxicity: Category 1B.

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

2.2. Label elements

Signal word

Danger

Symbols

Health Hazard |

Pictograms**Hazard Statements**

May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. May cause cancer. May damage fertility or the unborn child.

Causes damage to organs through prolonged or repeated exposure: cardiovascular system | kidney/urinary tract | liver | nervous system | respiratory system | 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 vapours, dust, or spray. Wash exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves and if needed, respiratory protection (see SDS Section 8). In case of inadequate ventilation wear respiratory protection.

Response:

IF ON SKIN: Wash with plenty of soap and water. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF exposed or concerned: Get medical attention. Get medical attention if you feel unwell. If skin irritation or rash occurs: Get medical attention. If experiencing respiratory symptoms: Call a POISON CENTER or doctor. Take off contaminated clothing and wash it before reuse.

Storage:

Store locked up.

Disposal:

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

2.3. Other hazards

None known.

39% of the mixture consists of ingredients of unknown acute oral toxicity.

39% 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 |
|---|--------------|------------------------|--|
| Urethane Polymer | Trade Secret | 30 - 60 | Not Applicable |
| Carbon Black | 1333-86-4 | 10 - 30 Trade Secret * | Carbon black |
| Sulfonic Acids, C10-18-Alkane Ph Esters | 70775-94-9 | 10 - 30 | Sulfonic acids, C10-18-alkane, Ph esters |
| Kaolin, Calcined | 92704-41-1 | 10 - 20 | Kaolin, calcined |

| | | | |
|--|------------|------------------------|---|
| Hydrotreated Light Petroleum Distillates | 64742-47-8 | 1 - 5 Trade Secret * | No Data Available |
| Toluene | 108-88-3 | 1 - 5 Trade Secret * | No Data Available |
| P,P'-Methylenebis(phenyl isocyanate) | 101-68-8 | 0.1 - 1 Trade Secret * | Benzene, 1,1'-methylenebis[4-isocyanato- |
| p-Toluenesulfonamide | 70-55-3 | 0.1 - 1 | Benzenesulfonamide, 4-methyl- |
| 3-(Trimethoxysilyl)propyl Glycidyl Ether | 2530-83-8 | < 0.3 | Silane, trimethoxy[3-(oxiranymethoxy)propyl]- |
| Quartz Silica | 14808-60-7 | 0 - 0.1 Trade Secret * | Quartz (SiO ₂) |
| Dibutyltin Dichloride | 683-18-1 | < 0.05 | Stannane, dibutyldichloro- |
| TRIBUTYLTIN CHLORIDE | 1461-22-9 | < 0.001 | No Data Available |

Urethane Polymer is a non-hazardous material according to WHMIS criteria. Specific information has been withheld as a trade secret.

*The concentration (exact or range) of this component has been withheld as a trade secret.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation:

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

Skin Contact:

Immediately wash with soap and water. Remove contaminated clothing and wash before reuse. If signs/symptoms develop, get medical attention.

Eye Contact:

If exposed, flush eyes with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. If signs/symptoms develop, get medical attention.

If Swallowed:

Rinse mouth. If you feel unwell, get medical attention.

4.2. Most important symptoms and effects, both acute and delayed

Allergic respiratory reaction (difficulty breathing, wheezing, cough, and tightness of chest). Allergic skin reaction (redness, swelling, blistering, and itching). 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

No Information Available

5.2. Unsuitable extinguishing media

DO NOT USE WATER

5.3. Special hazards arising from the substance or mixture

None inherent in this product.

Hazardous Decomposition or By-Products

Substance

Carbon monoxide

Condition

During Combustion

Carbon dioxide

During Combustion

5.4. Special protection 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**

Use personal protective equipment based on the results of an exposure assessment. Refer to Section 8 for PPE recommendations. If anticipated exposure resulting from an accidental release exceeds the protective capabilities of the PPE listed in Section 8, or are unknown, select PPE that offers an appropriate level of protection. Consider the physical and chemical hazards of the material when doing so. Examples of PPE ensembles for emergency response could include wearing bunker gear for a release of flammable material; wearing chemical protective clothing if the spilled material is a corrosive, a sensitizer, a significant dermal irritant, or can be absorbed through the skin; or donning a positive pressure supplied-air respirator for chemicals with inhalation hazards. For information regarding physical and health hazards, refer to sections 2 and 11 of the SDS. 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.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Pour isocyanate decontaminant solution (90% water, 8% concentrated ammonia, 2% detergent) on spill and allow to react for 10 minutes. Or pour water on spill and allow to react for more than 30 minutes. Cover with absorbent material. Vacuum or sweep up. **WARNING !** A motor could be an ignition source and cause flammable gases or vapours or dust in the spill area to burn or explode. 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**

For industrial or professional use only. Not for consumer sale or use. Do not use in a confined area with minimal air exchange. Keep out of reach of children. 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. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.) Keep away from reactive metals (eg. Aluminum, zinc etc.) to avoid the formation of hydrogen gas that could create an explosion hazard. 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. Store away from heat. Store away from acids. Store away from strong bases. Store away from oxidizing agents. Store away from amines. Store locked up.

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****Occupational exposure limits**

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

| Ingredient | C.A.S. No. | Agency | Limit type | Additional Comments |
|------------|------------|--------|------------|---------------------|
|------------|------------|--------|------------|---------------------|

| | | | | |
|---|------------|-------|---|--------------------------------|
| Toluene | 108-88-3 | ACGIH | TWA:20 ppm | |
| Carbon Black | 1333-86-4 | ACGIH | TWA(inhalable fraction):3 mg/m ³ | |
| TIN, ORGANIC COMPOUNDS | 1461-22-9 | ACGIH | TWA(as Sn):0.1 mg/m ³ ;STEL(as Sn):0.2 mg/m ³ | Danger of cutaneous absorption |
| SILICA, CRYSTALLINE (AIRBORNE PARTICLES OF RESPIRABLE SIZE) | 14808-60-7 | ACGIH | TWA(respirable fraction):0.025 mg/m ³ | |
| TIN, ORGANIC COMPOUNDS | 683-18-1 | ACGIH | TWA(as Sn):0.1 mg/m ³ ;STEL(as Sn):0.2 mg/m ³ | Danger of cutaneous absorption |

ACGIH : American Conference of Governmental Industrial Hygienists

AIHA : American Industrial Hygiene Association

CMRG : Chemical Manufacturer's Recommended Guidelines

TWA: Time-Weighted-Average

STEL: Short Term Exposure Limit

CEIL: Ceiling

8.2. Exposure controls

8.2.1. Engineering controls

Provide ventilated enclosure for curing. Curing enclosures must be exhausted to outdoors or to a suitable emission control device. Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/vapours/spray. If ventilation is not adequate, use respiratory protection equipment.

8.2.2. Personal protective equipment (PPE)

Eye/face protection

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.

For prolonged or repeated contact, gloves made from the following material(s) are recommended (breakthrough times are >4 hours): Butyl Rubber, Neoprene, Nitrile Rubber

Any glove recommended for prolonged/repeated contact is also suitable for short-term/splash contact.

If this product is used in a manner that presents a higher potential for exposure (e.g., spraying, high splash potential, etc.), then use of a protective apron may be necessary. See recommended glove material(s) for determining appropriate apron material(s). If a glove material is not available as an apron, polymer laminate is a suitable option.

Respiratory protection

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

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

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

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|---|---|
| Physical state | Liquid |
| Specific Physical Form: | Paste |
| Colour | Black |
| Odour | Mild Neutral |
| Odour threshold | <i>No Data Available</i> |
| pH | <i>Not Applicable</i> |
| Melting point/Freezing point | <i>No Data Available</i> |
| Boiling point | 110 °C |
| Flash Point | No flash point |
| Evaporation rate | <i>No Data Available</i> |
| Flammability | Not Applicable |
| Flammable Limits(LEL) | 1.2 % volume |
| Flammable Limits(UEL) | 7.1 % volume |
| Vapour Pressure | 2,900 Pa [<i>Ref Std: AIR=1</i>] |
| Relative Vapour Density | 3.14 [<i>Ref Std: AIR=1</i>] |
| Density | 1.205 g/cm ³ |
| Relative density | 1.2 [<i>Ref Std: WATER=1</i>] |
| Water solubility | Negligible |
| Solubility- non-water | <i>No Data Available</i> |
| Partition coefficient: n-octanol/ water | <i>No Data Available</i> |
| Autoignition temperature | 450 °C |
| Decomposition temperature | <i>No Data Available</i> |
| Kinematic Viscosity | <i>No Data Available</i> |
| Volatile Organic Compounds | 70 g/l [<i>Test Method: calculated SCAQMD rule 443.1</i>] |
| Percent volatile | 5.8 % weight |
| VOC Less H ₂ O & Exempt Solvents | 70 g/l [<i>Test Method: calculated SCAQMD rule 443.1</i>] |
| Molecular weight | <i>No Data Available</i> |

| | |
|-----------------------------|--|
| Particle Characteristics | |
| Primary particle dia-median | 18 - 61 nm (<i>Carbon Black</i>) |
| Shape of Primary particle | Other (see details) (<i>Carbon Black</i>) |
| Specific surface area | 21 - 1,200 m ² /g (<i>Carbon Black</i>) |

SECTION 10: Stability and reactivity

10.1. Reactivity

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

10.2. Chemical stability

Stable.

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4. Conditions to avoid

Heat
High shear and high temperature conditions
Sparks and/or flames
Temperatures above the boiling point

10.5. Incompatible materials

Amines
Alcohols
Water
Reaction with water, alcohols, and amines is not hazardous if container can vent to the atmosphere to prevent pressure buildup.
Accelerators
Al or Mg powder and high/shear temperature conditions
Alkali and alkaline earth metals
Reactive metals
Reducing agents
Strong acids
Strong bases
Strong oxidizing agents
Combustibles
Finely divided active metals
Reaction with water, alcohols, and amines is not hazardous if container can vent to the atmosphere to prevent pressure buildup.

10.6. Hazardous decomposition products

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

Refer to section 5.2 for hazardous decomposition products during combustion.

SECTION 11: Toxicological information

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

11.1. Information on Toxicological effects

Signs and Symptoms of Exposure

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

Inhalation:

Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain. 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:**Prolonged or repeated exposure may cause target organ effects:**

Ocular Effects: Signs/symptoms may include blurred or significantly impaired vision. Auditory Effects: Signs/symptoms may include hearing impairment, balance dysfunction and ringing in the ears. Olfactory Effects: Signs/symptoms may include decreased ability to detect odours and/or complete loss of smell. 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.

The Hazardous Substance Assessment for toluene published by Health Canada concludes that toluene also causes target organ toxicity through prolonged or repeated exposure to the cardiovascular system (heart), respiratory system (lung), kidney, and liver. Cardiac Effects: Signs/symptoms may include irregular heartbeat (arrhythmia), changes in heart rate, damage to heart muscle, heart attack, and may be fatal. Respiratory Effects: Signs/symptoms may include cough, shortness of breath, chest tightness, wheezing, increased heart rate, bluish coloured skin (cyanosis), sputum production, changes in lung function tests, and/or respiratory failure. Kidney/Bladder Effects: Signs/symptoms may include changes in urine production, abdominal or lower back pain, increased protein in urine, increased blood urea nitrogen (BUN), blood in urine, and painful urination. Liver Effects: Signs/symptoms may include loss of appetite, weight loss, fatigue, weakness, abdominal tenderness and jaundice.

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.

| <u>Ingredient</u> | <u>CAS No.</u> | <u>Class Description</u> | <u>Regulation</u> |
|---|-----------------------|---------------------------------|---|
| Silica, Crystalline (Respirable Size) | 14808-60-7 | Known To Be Human Carcinogen. | National Toxicology Program Carcinogens |
| Carbon black | 1333-86-4 | Grp. 2B: Possible human carc. | International Agency for Research on Cancer |
| Silica dust, crystalline, in the form of quartz or cristobalite | 14808-60-7 | Grp. 1: Carcinogenic to humans | 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

| <u>Name</u> | <u>Route</u> | <u>Species</u> | <u>Value</u> |
|---|--------------------------------|-----------------------|--|
| 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 |
| Sulfonic Acids, C10-18-Alkane Ph Esters | Dermal | Rat | LD50 > 1,000 mg/kg |
| Sulfonic Acids, C10-18-Alkane Ph Esters | Ingestion | Rat | LD50 > 5,000 mg/kg |
| Carbon Black | Dermal | Rabbit | LD50 > 3,000 mg/kg |
| Carbon Black | Ingestion | Rat | LD50 > 8,000 mg/kg |
| Kaolin, Calcined | Inhalation-Dust/Mist (4 hours) | Rat | LC50 > 2.07 mg/l |
| Kaolin, Calcined | Dermal | similar compounds | LD50 > 5,000 mg/kg |
| Kaolin, Calcined | Ingestion | similar compounds | LD50 > 5,000 mg/kg |

| | | | |
|--|--------------------------------|-------------------|------------------------------------|
| Toluene | Dermal | Rat | LD50 12,000 mg/kg |
| Toluene | Inhalation-Vapor (4 hours) | Rat | LC50 30 mg/l |
| Toluene | Ingestion | Rat | LD50 5,550 mg/kg |
| Hydrotreated Light Petroleum Distillates | Ingestion | Rat | LD50 > 15,000 mg/kg |
| Hydrotreated Light Petroleum Distillates | Dermal | similar compounds | LD50 > 5,000 mg/kg |
| p-Toluenesulfonamide | Dermal | Rat | LD50 > 2,000 mg/kg |
| p-Toluenesulfonamide | Ingestion | Rat | LD50 > 2,000 mg/kg |
| 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 |
| 3-(Trimethoxysilyl)propyl Glycidyl Ether | Dermal | Rabbit | LD50 4,000 mg/kg |
| 3-(Trimethoxysilyl)propyl Glycidyl Ether | Inhalation-Dust/Mist (4 hours) | Rat | LC50 > 5.3 mg/l |
| 3-(Trimethoxysilyl)propyl Glycidyl Ether | Ingestion | Rat | LD50 7,010 mg/kg |
| Quartz Silica | Dermal | | LD50 estimated to be > 5,000 mg/kg |
| Quartz Silica | Ingestion | | LD50 estimated to be > 5,000 mg/kg |
| Dibutyltin Dichloride | Inhalation-Dust/Mist (4 hours) | Rat | LC50 0.059 mg/l |
| Dibutyltin Dichloride | Ingestion | Rat | LD50 219 mg/kg |
| TRIBUTYLTIN CHLORIDE | Dermal | Rabbit | LD50 500 mg/kg |
| TRIBUTYLTIN CHLORIDE | Inhalation-Dust/Mist (4 hours) | Rat | LC50 Not Available |
| TRIBUTYLTIN CHLORIDE | Ingestion | Rat | LD50 101 mg/kg |

ATE = acute toxicity estimate

Skin Corrosion/Irritation

| Name | Species | Value |
|--|-------------------------|---------------------------|
| Carbon Black | Rabbit | No significant irritation |
| Kaolin, Calcined | Rabbit | No significant irritation |
| Toluene | Rabbit | Irritant |
| Hydrotreated Light Petroleum Distillates | similar compounds | Mild irritant |
| p-Toluenesulfonamide | Rabbit | No significant irritation |
| P,P'-Methylenebis(phenyl isocyanate) | official classification | Irritant |
| 3-(Trimethoxysilyl)propyl Glycidyl Ether | Rabbit | Mild irritant |
| Quartz Silica | Professional judgement | No significant irritation |
| Dibutyltin Dichloride | Multiple animal species | Corrosive |
| TRIBUTYLTIN CHLORIDE | Rabbit | Irritant |

Serious Eye Damage/Irritation

| Name | Species | Value |
|--|---------|---------------------------|
| Carbon Black | Rabbit | No significant irritation |
| Kaolin, Calcined | Rabbit | No significant irritation |
| Toluene | Rabbit | Moderate irritant |
| Hydrotreated Light Petroleum Distillates | similar | No significant irritation |

| | | |
|--|-------------------------|---------------------------|
| | compounds | |
| p-Toluenesulfonamide | Rabbit | No significant irritation |
| P,P'-Methylenebis(phenyl isocyanate) | official classification | Severe irritant |
| 3-(Trimethoxysilyl)propyl Glycidyl Ether | Rabbit | Corrosive |
| Dibutyltin Dichloride | Rabbit | Corrosive |
| TRIBUTYLtin CHLORIDE | Rabbit | Corrosive |

Skin Sensitization

| Name | Species | Value |
|--|-------------------|----------------|
| Toluene | Guinea pig | Not classified |
| Hydrotreated Light Petroleum Distillates | similar compounds | Not classified |
| P,P'-Methylenebis(phenyl isocyanate) | Mouse | Sensitizing |
| 3-(Trimethoxysilyl)propyl Glycidyl Ether | Guinea pig | Not classified |
| Dibutyltin Dichloride | similar compounds | Sensitizing |
| TRIBUTYLtin CHLORIDE | Mouse | Sensitizing |

Respiratory Sensitization

| Name | Species | Value |
|--------------------------------------|---------|-------------|
| P,P'-Methylenebis(phenyl isocyanate) | Human | Sensitizing |

Germ Cell Mutagenicity

| Name | Route | Value |
|--|----------|--|
| Carbon Black | In Vitro | Not mutagenic |
| Carbon Black | In vivo | Some positive data exist, but the data are not sufficient for classification |
| Toluene | In Vitro | Not mutagenic |
| Toluene | In vivo | Not mutagenic |
| Hydrotreated Light Petroleum Distillates | In Vitro | Not mutagenic |
| P,P'-Methylenebis(phenyl isocyanate) | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| 3-(Trimethoxysilyl)propyl Glycidyl Ether | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| 3-(Trimethoxysilyl)propyl Glycidyl Ether | In vivo | Some positive data exist, but the data are not sufficient for classification |
| Quartz Silica | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Quartz Silica | In vivo | Some positive data exist, but the data are not sufficient for classification |
| Dibutyltin Dichloride | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Dibutyltin Dichloride | In vivo | Mutagenic |
| TRIBUTYLtin CHLORIDE | In Vitro | Not mutagenic |
| TRIBUTYLtin CHLORIDE | In vivo | Some positive data exist, but the data are not sufficient for classification |

Carcinogenicity

| Name | Route | Species | Value |
|--------------|------------|---------|--|
| Carbon Black | Dermal | Mouse | Not carcinogenic |
| Carbon Black | Ingestion | Mouse | Not carcinogenic |
| Carbon Black | Inhalation | Rat | Carcinogenic |
| Toluene | Dermal | Mouse | Some positive data exist, but the data are not sufficient for classification |
| Toluene | Ingestion | Rat | Some positive data exist, but the data are not |

| | | | |
|--|------------|------------------|--|
| | | | sufficient for classification |
| Toluene | Inhalation | Mouse | Some positive data exist, but the data are not sufficient for classification |
| P,P'-Methylenebis(phenyl isocyanate) | Inhalation | Rat | Some positive data exist, but the data are not sufficient for classification |
| 3-(Trimethoxysilyl)propyl Glycidyl Ether | Dermal | Mouse | Not carcinogenic |
| Quartz Silica | Inhalation | Human and animal | Carcinogenic |

Reproductive Toxicity

Reproductive and/or Developmental Effects

| Name | Route | Value | Species | Test result | Exposure Duration |
|--|------------|--|---------|-----------------------|------------------------------|
| Toluene | Inhalation | Not classified for female reproduction | Human | NOAEL Not available | occupational exposure |
| Toluene | Inhalation | Not classified for male reproduction | Rat | NOAEL 2.3 mg/l | 1 generation |
| Toluene | Ingestion | Toxic to development | Rat | LOAEL 520 mg/kg/day | during gestation |
| Toluene | Inhalation | Toxic to development | Human | NOAEL Not available | poisoning and/or abuse |
| p-Toluenesulfonamide | Ingestion | Not classified for reproduction and/or development | Rat | NOAEL 300 mg/kg/day | premating & during gestation |
| P,P'-Methylenebis(phenyl isocyanate) | Inhalation | Not classified for development | Rat | NOAEL 0.004 mg/l | during organogenesis |
| 3-(Trimethoxysilyl)propyl Glycidyl Ether | Ingestion | Not classified for female reproduction | Rat | NOAEL 1,000 mg/kg/day | 1 generation |
| 3-(Trimethoxysilyl)propyl Glycidyl Ether | Ingestion | Not classified for male reproduction | Rat | NOAEL 1,000 mg/kg/day | 1 generation |
| 3-(Trimethoxysilyl)propyl Glycidyl Ether | Ingestion | Not classified for development | Rat | NOAEL 3,000 mg/kg/day | during organogenesis |
| Dibutyltin Dichloride | Ingestion | Not classified for male reproduction | Rat | NOAEL 12 mg/kg/day | 28 days |
| Dibutyltin Dichloride | Ingestion | Toxic to female reproduction | Rat | NOAEL 1.7 mg/kg/day | premating into lactation |
| Dibutyltin Dichloride | Ingestion | Toxic to development | Rat | NOAEL 1.7 mg/kg/day | premating into lactation |
| TRIBUTYLTIN CHLORIDE | Ingestion | Not classified for male reproduction | Rat | NOAEL 10 mg/kg/day | 2 generation |
| TRIBUTYLTIN CHLORIDE | Ingestion | Toxic to female reproduction | Rat | NOAEL 2 mg/kg/day | 2 generation |
| TRIBUTYLTIN CHLORIDE | Ingestion | Toxic to development | Rat | LOAEL 0.025 mg/kg/day | weeks |

Target Organ(s)

Specific Target Organ Toxicity - single exposure

| Name | Route | Target Organ(s) | Value | Species | Test result | Exposure Duration |
|--|------------|-----------------------------------|--|----------------|---------------------|------------------------|
| Toluene | Inhalation | central nervous system depression | May cause drowsiness or dizziness | Human | NOAEL Not available | |
| Toluene | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | Human | NOAEL Not available | |
| Toluene | Inhalation | immune system | Not classified | Mouse | NOAEL 0.004 mg/l | 3 hours |
| Toluene | Ingestion | central nervous system depression | May cause drowsiness or dizziness | Human | NOAEL Not available | poisoning and/or abuse |
| Hydrotreated Light Petroleum Distillates | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for | similar health | NOAEL Not available | |

| | | | classification | hazards | | |
|--------------------------------------|------------|------------------------|--|-------------------------|---------------------|--|
| P,P'-Methylenebis(phenyl isocyanate) | Inhalation | respiratory irritation | May cause respiratory irritation | official classification | NOAEL Not available | |
| Dibutyltin Dichloride | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | similar health hazards | NOAEL not available | |
| Dibutyltin Dichloride | Ingestion | immune system | Causes damage to organs | Rat | LOAEL 5 mg/kg | |
| TRIBUTYLTIN CHLORIDE | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | similar health hazards | NOAEL Not Available | |
| TRIBUTYLTIN CHLORIDE | Ingestion | immune system | Causes damage to organs | Rat | NOAEL 5 mg/kg | |

Specific Target Organ Toxicity - repeated exposure

| Name | Route | Target Organ(s) | Value | Species | Test result | Exposure Duration |
|--|------------|--|--|-------------------------|-----------------------|------------------------|
| Carbon Black | Inhalation | pneumoconiosis | Not classified | Human | NOAEL Not available | occupational exposure |
| Kaolin, Calcined | Inhalation | pneumoconiosis | Not classified | similar compounds | NOAEL not available | occupational exposure |
| Toluene | Inhalation | auditory system nervous system eyes olfactory system | Causes damage to organs through prolonged or repeated exposure | Human | NOAEL Not available | poisoning and/or abuse |
| Toluene | Inhalation | respiratory system | Some positive data exist, but the data are not sufficient for classification | Rat | LOAEL 2.3 mg/l | 15 months |
| Toluene | Inhalation | heart liver kidney and/or bladder | Not classified | Rat | NOAEL 11.3 mg/l | 15 weeks |
| Toluene | Inhalation | endocrine system | Not classified | Rat | NOAEL 1.1 mg/l | 4 weeks |
| Toluene | Inhalation | immune system | Not classified | Mouse | NOAEL Not available | 20 days |
| Toluene | Inhalation | bone, teeth, nails, and/or hair | Not classified | Mouse | NOAEL 1.1 mg/l | 8 weeks |
| Toluene | Inhalation | hematopoietic system vascular system | Not classified | Human | NOAEL Not available | occupational exposure |
| Toluene | Inhalation | gastrointestinal tract | Not classified | Multiple animal species | NOAEL 11.3 mg/l | 15 weeks |
| Toluene | Ingestion | nervous system | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 625 mg/kg/day | 13 weeks |
| Toluene | Ingestion | heart | Not classified | Rat | NOAEL 2,500 mg/kg/day | 13 weeks |
| Toluene | Ingestion | liver kidney and/or bladder | Not classified | Multiple animal species | NOAEL 2,500 mg/kg/day | 13 weeks |
| Toluene | Ingestion | hematopoietic system | Not classified | Mouse | NOAEL 600 mg/kg/day | 14 days |
| Toluene | Ingestion | endocrine system | Not classified | Mouse | NOAEL 105 mg/kg/day | 28 days |
| Toluene | Ingestion | immune system | Not classified | Mouse | NOAEL 105 mg/kg/day | 4 weeks |
| Hydrotreated Light Petroleum Distillates | Inhalation | liver | Not classified | Rat | NOAEL 6 mg/l | 13 weeks |
| Hydrotreated Light Petroleum Distillates | Inhalation | kidney and/or bladder | Not classified | Rat | LOAEL 1.5 mg/l | 13 weeks |
| Hydrotreated Light Petroleum Distillates | Inhalation | hematopoietic system | Not classified | Rat | NOAEL 6 mg/l | 13 weeks |
| Hydrotreated Light Petroleum Distillates | Ingestion | liver | Not classified | Rat | NOAEL 1,000 | 13 weeks |

| | | | | | mg/kg/day | |
|--|------------|---|--|-------|-----------------------|-----------------------|
| Hydrotreated Light Petroleum Distillates | Ingestion | kidney and/or bladder | Not classified | Rat | LOAEL 100 mg/kg/day | 13 weeks |
| Hydrotreated Light Petroleum Distillates | Ingestion | hematopoietic system eyes | Not classified | Rat | NOAEL 1,000 mg/kg/day | 13 weeks |
| 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 |
| 3-(Trimethoxysilyl)propyl Glycidyl Ether | Ingestion | heart endocrine system bone, teeth, nails, and/or hair hematopoietic system liver immune system nervous system kidney and/or bladder respiratory system | Not classified | Rat | NOAEL 1,000 mg/kg/day | 28 days |
| Quartz Silica | Inhalation | silicosis | Causes damage to organs through prolonged or repeated exposure | Human | NOAEL Not available | occupational exposure |
| Dibutyltin Dichloride | Ingestion | immune system | Causes damage to organs through prolonged or repeated exposure | Rat | NOAEL 0.3 mg/kg/day | 28 days |
| Dibutyltin Dichloride | Ingestion | hematopoietic system liver nervous system kidney and/or bladder | Not classified | Rat | NOAEL 12 mg/kg/day | 28 days |
| TRIBUTYLTIN CHLORIDE | Ingestion | liver immune system | Causes damage to organs through prolonged or repeated exposure | Rat | LOAEL 0.36 mg/kg/day | 28 days |
| TRIBUTYLTIN CHLORIDE | Ingestion | kidney and/or bladder hematopoietic system | Not classified | Rat | NOAEL 1.5 mg/kg/day | 28 days |

The Hazardous Substance Assessment for toluene published by Health Canada concludes that toluene also causes adverse effects to the cardiovascular system (heart), respiratory system (lung), kidney, and liver following repeated chronic inhalation exposure to humans.

Aspiration Hazard

| Name | Value |
|--|-------------------|
| Toluene | Aspiration hazard |
| Hydrotreated Light Petroleum Distillates | 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 product are in compliance with the new substance notification requirements of CEPA.

SECTION 16: Other information

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

Health: 2 Flammability: 1 Instability: 1 Special Hazards: None

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

| | | | |
|------------------------|------------|-------------------------|------------|
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3M Canada SDSs are available at www.3M.ca