# Safety Data Sheet



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|---|---|---|---|
| **Document group:** | 16-5850-9 | **Version number:** | 10.04 |
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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™ Marine Adhesive Sealant Fast Cure 5200, White; PN 06520 , 05220, 06534, 06535

**Product Identification Numbers**

| | | | | |
|---|---|---|---|---|
| 60-9800-4557-3 | 60-9800-4558-1 | 60-9800-4562-3 | 60-9800-4572-2 | 60-9801-0557-5 |
| 62-5239-0330-0 | 62-5239-0334-2 | 62-5239-5236-4 | FS-9100-3615-1 | FS-9100-3648-2 |
| H0-0022-8692-2 | HB-0041-0011-9 | HB-0041-0149-7 | LB-T000-0007-0 | UU-0042-1544-6 |
| XS-0414-1524-0 | | | | |

### 1.2. Recommended use and restrictions on use

**Intended Use**
Sealant

**Specific Use**
Adhesive Sealant

**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

The following product identification number(s) are sold in the consumer market place:
60980045623, XS041415240

### 2.1. Classification of the substance or mixture

Respiratory Sensitizer: Category 1.
Skin Sensitizer: 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 damage fertility or the unborn child.

Causes damage to organs through prolonged or repeated exposure: respiratory system.

**Precautionary statements**
**General:**
Keep out of reach of children.

**Prevention:**
Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe vapours. 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, eye protection, face protection, 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. 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.

2% of the mixture consists of ingredients of unknown acute inhalation toxicity.

## SECTION 3: Composition/information on ingredients

This material is a mixture.

| Ingredient | C.A.S. No. | % by Wt | Common Name |
|---|---|---|---|
| Urethane Polymer | 51447-37-1 | 40 - 70 | Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-hydro-.omega.-hydroxy-, polymer with 1,1'-methylenebis[4-isocyanatobenzene] and .alpha.,.alpha.',.alpha.''-(1,2,3-propanetriyl)tris [.omega.-hydroxypoly[oxy(methyl-1,2-ethanediyl)]] |
| Titanium Dioxide | 13463-67-7 | 10 - 30 Trade Secret * | Titanium oxide (TiO2) |
| Carbitol Acetate | 112-15-2 | 1 - 5 Trade Secret * | Ethanol, 2-(2-ethoxyethoxy)-, acetate |
| P,P'-Methylenebis(Phenyl Isocyanate) | 101-68-8 | 1 - 5 Trade Secret * | Benzene, 1,1'-methylenebis[4-isocyanato- |
| Synthetic Amorphous Silica | 112945-52-5 | 1 - 5 | Fumed amorphous silica, crystalline-free |
| Zinc Oxide | 1314-13-2 | < 2.3 | Zinc oxide (ZnO) |
| Alumina Trihydrate | 21645-51-2 | < 2 | Aluminum hydroxide (Al(OH)3) |
| Fumed Silica | 7631-86-9 | 1 - 2 | Silica |
| Alkyl Isocynate Silane | 85702-90-5 | 0.5 - 1.5 Trade Secret * | 2,9,11,13-Tetraazanonadecanethioic acid, 19-isocyanato-11-(6-isocyanatohexyl)-10,12-dioxo-, S-[3-(trimethoxysilyl)propyl] ester |
| Toluene | 108-88-3 | 0 - 0.75 | No Data Available |
| Heptane | 142-82-5 | < 0.3 | Heptane |
| (Gamma-mercaptopropyl)trimethoxysilane | 4420-74-0 | < 0.2 | 1-Propanethiol, 3-(trimethoxysilyl)- |

*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:**
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). 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**
Use a fire fighting agent suitable for the surrounding fire.

**5.2. Unsuitable extinguishing media**
None Determined

**5.3. Special hazards arising from the substance or mixture**
None inherent in this product.

**Hazardous Decomposition or By-Products**

| Substance | Condition |
|---|---|
| Isocyanates | During Combustion |
| Carbon monoxide | During Combustion |
| Carbon dioxide | During Combustion |
| Hydrogen Cyanide | During Combustion |
| Oxides of Nitrogen | During Combustion |
| Oxides of Sulfur | During Combustion |
| Toxic Vapor, Gas, Particulate | During Combustion |

**5.4. Special protection actions for fire-fighters**
No special protective actions for fire-fighters are anticipated.

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

**6.2. Environmental precautions**
Avoid release to the environment. 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**
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. 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 container approved for transportation by appropriate authorities, but do not seal the container for 48 hours to avoid pressure build-up. 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. 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**

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. 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 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 | |
| Zinc Oxide | 1314-13-2 | ACGIH | TWA(respirable fraction):2 mg/m3;STEL(respirable fraction):10 mg/m3 | |
| Titanium Dioxide | 13463-67-7 | ACGIH | TWA(Respirable nanoscale particles):0.2 mg/m3;TWA(Respirable finescale particles):2.5 mg/m3 | |
| Heptane, straight and branched isomers | 142-82-5 | ACGIH | TWA:200 ppm;STEL:400 ppm | |
| Aluminum metal and insoluble compounds, respirable fraction | 21645-51-2 | ACGIH | TWA(respirable fraction):1 mg/m3 | |

ACGIH : American Conference of Governmental Industrial Hygienists
AIHA : American Industrial Hygiene Association
CMRG : Chemical Manufacturer's Recommended Guidelines
TWA: Time-Weighted-Average
STEL: Short Term Exposure Limit
CEIL: Ceiling

**8.2. Exposure controls**

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

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

**Eye/face protection**
None required.

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

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

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

**Respiratory protection**

An exposure assessment may be needed to decide if a respirator is required. If a respirator is needed, use respirators as part of a full respiratory protection program. Based on the results of the exposure assessment, select from the following respirator type(s) to reduce inhalation exposure:
Half facepiece or full facepiece air-purifying respirator suitable for organic vapours and particulates

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

## SECTION 9: Physical and chemical properties

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

| | |
|---|---|
| **Physical state** | Liquid |
| **Specific Physical Form:** | Paste |
| **Colour** | White |
| **Odour** | Slight Urethane |
| **Odour threshold** | *No Data Available* |
| **pH** | *Not Applicable* |
| **Melting point/Freezing point** | *Not Applicable* |
| **Boiling point** | *Not Applicable* |
| **Flash Point** | No flash point |
| **Evaporation rate** | *No Data Available* |
| **Flammability** | Not Applicable |
| **Flammable Limits(LEL)** | *Not Applicable* |
| **Flammable Limits(UEL)** | *Not Applicable* |
| **Vapour Pressure** | *No Data Available* |
| **Relative Vapour Density** | *No Data Available* |
| **Density** | 1.3 g/ml |
| **Relative density** | 1.3 [*Ref Std:*WATER=1] |
| **Water solubility** | Nil |
| **Solubility- non-water** | *No Data Available* |
| **Partition coefficient: n-octanol/ water** | *No Data Available* |
| **Autoignition temperature** | *No Data Available* |
| **Decomposition temperature** | *No Data Available* |
| **Kinematic Viscosity** | 230,769 mm2/sec |
| **Volatile Organic Compounds** | 38 g/l [*Test Method:*tested per EPA method 24] [*Details:*EU VOC content] |
| **Percent volatile** | 2.83 % weight |
| **VOC Less H2O & Exempt Solvents** | 38 g/l [*Test Method:*tested per EPA method 24] |
| **Molecular weight** | *No Data Available* |

| | |
|---|---|
| **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**
None known.

**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:**

**Prolonged or repeated exposure may cause target organ effects:**
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.

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

**Carcinogenicity:**

| Ingredient | CAS No. | Class Description | Regulation |
|---|---|---|---|
| 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 | Inhalation-Vapor(4 hr) | | No data available; calculated ATE >50 mg/l |
| Overall product | Ingestion | | No data available; calculated ATE >5,000 mg/kg |
| Urethane Polymer | Dermal | | LD50 estimated to be > 5,000 mg/kg |
| Urethane Polymer | Ingestion | Rat | LD50 > 5,000 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 |
| Synthetic Amorphous Silica | Dermal | Rabbit | LD50 > 5,000 mg/kg |
| Synthetic Amorphous Silica | Inhalation-Dust/Mist (4 hours) | Rat | LC50 > 0.691 mg/l |
| Synthetic Amorphous Silica | Ingestion | Rat | LD50 > 5,110 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 |
| Zinc Oxide | Dermal | | LD50 estimated to be > 5,000 mg/kg |
| Zinc Oxide | Inhalation-Dust/Mist (4 hours) | Rat | LC50 > 5.7 mg/l |
| Zinc Oxide | Ingestion | Rat | LD50 > 5,000 mg/kg |
| Carbitol Acetate | Dermal | Rabbit | LD50 15,000 mg/kg |
| Carbitol Acetate | Ingestion | Rat | LD50 11,000 mg/kg |
| Fumed Silica | Dermal | Rabbit | LD50 > 5,000 mg/kg |
| Fumed Silica | Inhalation-Dust/Mist (4 hours) | Rat | LC50 > 0.691 mg/l |
| Fumed Silica | Ingestion | Rat | LD50 > 5,110 mg/kg |
| Alumina Trihydrate | Dermal | | LD50 estimated to be > 5,000 mg/kg |
| Alumina Trihydrate | Inhalation-Dust/Mist (4 hours) | Rat | LC50 > 2.3 mg/l |
| Alumina Trihydrate | Ingestion | Rat | LD50 > 5,000 mg/kg |
| Alkyl Isocynate Silane | Dermal | Rabbit | LD50 > 2,000 mg/kg |
| Alkyl Isocynate Silane | Ingestion | Rat | 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 |
| Heptane | Dermal | similar compounds | LD50 > 2,000 mg/kg |
| Heptane | Inhalation-Vapor (4 hours) | similar compounds | LC50 > 33.5 mg/l |
| Heptane | Ingestion | similar compounds | LD50 > 5,000 mg/kg |
| (Gamma-mercaptopropyl)trimethoxysilane | Dermal | Rabbit | LD50 2,270 mg/kg |
| (Gamma-mercaptopropyl)trimethoxysilane | Ingestion | Rat | LD50 770 mg/kg |

ATE = acute toxicity estimate

**Skin Corrosion/Irritation**

| Name | Species | Value |
|---|---|---|
| Titanium Dioxide | Rabbit | No significant irritation |
| Synthetic Amorphous Silica | Rabbit | No significant irritation |
| P,P'-Methylenebis(Phenyl Isocyanate) | official classification | Irritant |
| Zinc Oxide | Human and animal | No significant irritation |
| Carbitol Acetate | Human and animal | Minimal irritation |
| Fumed Silica | Rabbit | No significant irritation |
| Alumina Trihydrate | Rabbit | No significant irritation |
| Alkyl Isocynate Silane | Rabbit | Minimal irritation |
| Toluene | Rabbit | Irritant |
| Heptane | Professional judgement | Mild irritant |
| (Gamma-mercaptopropyl)trimethoxysilane | Rabbit | No significant irritation |

**Serious Eye Damage/Irritation**

| Name | Species | Value |
|---|---|---|
| Titanium Dioxide | Rabbit | No significant irritation |
| Synthetic Amorphous Silica | Rabbit | No significant irritation |
| P,P'-Methylenebis(Phenyl Isocyanate) | official classification | Severe irritant |
| Zinc Oxide | Rabbit | Mild irritant |
| Carbitol Acetate | Rabbit | Severe irritant |
| Fumed Silica | Rabbit | No significant irritation |
| Alumina Trihydrate | Rabbit | No significant irritation |
| Alkyl Isocynate Silane | Rabbit | No significant irritation |
| Toluene | Rabbit | Moderate irritant |
| Heptane | similar compounds | Mild irritant |
| (Gamma-mercaptopropyl)trimethoxysilane | Rabbit | No significant irritation |

**Skin Sensitization**

| Name | Species | Value |
|---|---|---|
| Titanium Dioxide | Human and animal | Not classified |
| Synthetic Amorphous Silica | Human and | Not classified |

| | | |
|---|---|---|
| | animal | |
| P,P'-Methylenebis(Phenyl Isocyanate) | Mouse | Sensitizing |
| Zinc Oxide | Guinea pig | Not classified |
| Carbitol Acetate | Human and animal | Not classified |
| Fumed Silica | Human and animal | Not classified |
| Alumina Trihydrate | Guinea pig | Not classified |
| Alkyl Isocynate Silane | Guinea pig | Sensitizing |
| Toluene | Guinea pig | Not classified |
| Heptane | similar compounds | Not classified |
| (Gamma-mercaptopropyl)trimethoxysilane | Guinea pig | Sensitizing |

## Respiratory Sensitization

| Name | Species | Value |
|---|---|---|
| P,P'-Methylenebis(Phenyl Isocyanate) | Human | Sensitizing |
| Alkyl Isocynate Silane | official classification | Sensitizing |

## Germ Cell Mutagenicity

| Name | Route | Value |
|---|---|---|
| Titanium Dioxide | In Vitro | Not mutagenic |
| Titanium Dioxide | In vivo | Not mutagenic |
| Synthetic Amorphous Silica | In Vitro | Not mutagenic |
| P,P'-Methylenebis(Phenyl Isocyanate) | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Zinc Oxide | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Zinc Oxide | In vivo | Some positive data exist, but the data are not sufficient for classification |
| Carbitol Acetate | In Vitro | Not mutagenic |
| Fumed Silica | In Vitro | Not mutagenic |
| Alkyl Isocynate Silane | In Vitro | Not mutagenic |
| Alkyl Isocynate Silane | In vivo | Not mutagenic |
| Toluene | In Vitro | Not mutagenic |
| Toluene | In vivo | Not mutagenic |
| Heptane | In Vitro | Not mutagenic |
| (Gamma-mercaptopropyl)trimethoxysilane | In Vitro | Not mutagenic |

## Carcinogenicity

| Name | Route | Species | Value |
|---|---|---|---|
| Titanium Dioxide | Ingestion | Multiple animal species | Not carcinogenic |
| Titanium Dioxide | Inhalation | Rat | Carcinogenic |
| Synthetic Amorphous Silica | Not Specified | 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 |
| Fumed Silica | Not Specified | Mouse | Some positive data exist, but the data are not sufficient for classification |
| Alumina Trihydrate | Not Specified | Multiple animal | Not carcinogenic |

| | | | |
|---|---|---|---|
| | | species | |
| 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 |

## Reproductive Toxicity

### Reproductive and/or Developmental Effects

| Name | Route | Value | Species | Test result | Exposure Duration |
|---|---|---|---|---|---|
| Synthetic Amorphous Silica | Ingestion | Not classified for female reproduction | Rat | NOAEL 509 mg/kg/day | 1 generation |
| Synthetic Amorphous Silica | Ingestion | Not classified for male reproduction | Rat | NOAEL 497 mg/kg/day | 1 generation |
| Synthetic Amorphous Silica | Ingestion | Not classified for development | Rat | NOAEL 1,350 mg/kg/day | during organogenesis |
| P,P'-Methylenebis(Phenyl Isocyanate) | Inhalation | Not classified for development | Rat | NOAEL 0.004 mg/l | during organogenesis |
| Zinc Oxide | Ingestion | Not classified for reproduction and/or development | Multiple animal species | NOAEL 125 mg/kg/day | premating & during gestation |
| Fumed Silica | Ingestion | Not classified for female reproduction | Rat | NOAEL 509 mg/kg/day | 1 generation |
| Fumed Silica | Ingestion | Not classified for male reproduction | Rat | NOAEL 497 mg/kg/day | 1 generation |
| Fumed Silica | Ingestion | Not classified for development | Rat | NOAEL 1,350 mg/kg/day | during organogenesis |
| Alumina Trihydrate | Ingestion | Not classified for development | Rat | NOAEL 768 mg/kg/day | during organogenesis |
| 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 |

## Target Organ(s)

### Specific Target Organ Toxicity - single exposure

| Name | Route | Target Organ(s) | Value | Species | Test result | Exposure Duration |
|---|---|---|---|---|---|---|
| P,P'-Methylenebis(Phenyl Isocyanate) | Inhalation | respiratory irritation | May cause respiratory irritation | official classification | NOAEL Not available | |
| Carbitol Acetate | Inhalation | central nervous system depression | May cause drowsiness or dizziness | Human and animal | NOAEL Not available | not applicable |
| Carbitol Acetate | Ingestion | central nervous system depression | May cause drowsiness or dizziness | Multiple animal species | NOAEL Not available | not applicable |
| 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 | 3 hours |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | | | | 0.004 mg/l | |
| Toluene | Ingestion | central nervous system depression | May cause drowsiness or dizziness | Human | NOAEL Not available | poisoning and/or abuse |
| Heptane | Inhalation | central nervous system depression | May cause drowsiness or dizziness | Human | NOAEL Not available | |
| Heptane | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | similar health hazards | NOAEL Not available | |
| Heptane | Ingestion | central nervous system depression | May cause drowsiness or dizziness | Human | NOAEL Not available | |

**Specific Target Organ Toxicity - repeated exposure**

| Name | Route | Target Organ(s) | Value | Species | Test result | Exposure Duration |
|---|---|---|---|---|---|---|
| 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 |
| Synthetic Amorphous Silica | Inhalation | respiratory system | Not classified | Human | NOAEL Not available | occupational exposure |
| Synthetic Amorphous Silica | Inhalation | silicosis | Not classified | Human | NOAEL Not available | occupational exposure |
| 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 |
| Zinc Oxide | Ingestion | nervous system | Not classified | Rat | NOAEL 600 mg/kg/day | 10 days |
| Zinc Oxide | Ingestion | endocrine system | Not classified | Other | NOAEL 500 mg/kg/day | 6 months |
| Zinc Oxide | Ingestion | hematopoietic system | Not classified | Other | NOAEL 500 mg/kg/day | 6 months |
| Zinc Oxide | Ingestion | kidney and/or bladder | Not classified | Other | NOAEL 500 mg/kg/day | 6 months |
| Carbitol Acetate | Inhalation | respiratory system | Not classified | Rat | NOAEL 0.48 mg/l | 2 weeks |
| Carbitol Acetate | Inhalation | liver | Not classified | Rat | NOAEL 0.48 mg/l | 2 weeks |
| Carbitol Acetate | Inhalation | immune system | Not classified | Rat | NOAEL 0.48 mg/l | 2 weeks |
| Carbitol Acetate | Inhalation | kidney and/or bladder | Not classified | Rat | NOAEL 0.48 mg/l | 2 weeks |
| Fumed Silica | Inhalation | respiratory system | Not classified | Human | NOAEL Not available | occupational exposure |
| Fumed Silica | Inhalation | silicosis | Not classified | Human | NOAEL Not available | occupational exposure |
| Alkyl Isocynate Silane | Ingestion | liver | Not classified | Rat | NOAEL 1,000 mg/kg/day | 28 days |
| Alkyl Isocynate Silane | Ingestion | heart | Not classified | Rat | NOAEL 1,000 mg/kg/day | 28 days |
| Alkyl Isocynate Silane | Ingestion | endocrine system | Not classified | Rat | NOAEL 1,000 mg/kg/day | 28 days |
| Alkyl Isocynate Silane | Ingestion | hematopoietic system | Not classified | Rat | NOAEL 1,000 mg/kg/day | 28 days |
| Alkyl Isocynate Silane | Ingestion | kidney and/or bladder | Not classified | Rat | NOAEL 1,000 mg/kg/day | 28 days |
| Toluene | Inhalation | auditory system | Causes damage to organs through prolonged or repeated exposure | Human | NOAEL Not available | poisoning and/or abuse |
| Toluene | Inhalation | nervous system | Causes damage to organs through prolonged or repeated exposure | Human | NOAEL Not available | poisoning and/or abuse |
| Toluene | Inhalation | eyes | Causes damage to organs through prolonged or repeated exposure | Human | NOAEL Not available | poisoning and/or abuse |
| Toluene | Inhalation | olfactory system | Causes damage to organs through | Human | NOAEL Not | poisoning |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | | prolonged or repeated exposure | | available | 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 | Not classified | Rat | NOAEL 11.3 mg/l | 15 weeks |
| Toluene | Inhalation | liver | Not classified | Rat | NOAEL 11.3 mg/l | 15 weeks |
| Toluene | Inhalation | 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 | Not classified | Human | NOAEL Not available | occupational exposure |
| Toluene | Inhalation | 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 | Not classified | Multiple animal species | NOAEL 2,500 mg/kg/day | 13 weeks |
| Toluene | Ingestion | 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 |
| Heptane | Inhalation | nervous system | Not classified | Rat | NOAEL 6.15 mg/l | 30 weeks |
| Heptane | Inhalation | peripheral nervous system | Not classified | Rat | NOAEL 12.5 mg/l | 16 weeks |
| Heptane | Inhalation | hematopoietic system | Not classified | Rat | NOAEL 12.2 mg/l | 26 weeks |
| Heptane | Inhalation | kidney and/or bladder | Not classified | Rat | NOAEL 12.2 mg/l | 26 weeks |

**Aspiration Hazard**

| Name | Value |
|---|---|
| Toluene | Aspiration hazard |
| Heptane | 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 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:** 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**