

# Safety Data Sheet

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# **SECTION 1: Identification**

### 1.1. Product identifier

3M<sup>TM</sup> Marine Adhesive Sealant Fast Cure 5200, White; PN 06520, 05220, 06534, 06535

### **Product Identification Numbers**

ID Number UPC ID Number UPC

LA-D100-3132-5 60-9800-4557-3 00051135065204

60-9800-4558-1 00051135052204 60-9800-4562-3 62-5239-0330-0 62-5239-5236-4

7000000629, 7000120490, 7000120491, 7010367674, 7010309906

#### 1.2. Recommended use and restrictions on use

### Recommended use

Adhesive Sealant, Sealant

This chemical/product is not and cannot be distributed in commerce (as defined in TSCA section 3(13)) for consumer paint or coating removal

### 1.3. Supplier's details

MANUFACTURER: 3M

**DIVISION:** Industrial Adhesives and Tapes Division **ADDRESS:** 3M Center, St. Paul, MN 55144-1000, USA

**Telephone:** 1-888-3M HELPS (1-888-364-3577)

## 1.4. Emergency telephone number

1-800-364-3577 or (651) 737-6501 (24 hours)

# **SECTION 2: Hazard identification**

## 2.1. Hazard classification

Respiratory Sensitizer: Category 1. Skin Sensitizer: Category 1.

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 dust/fume/gas/mist/vapors/spray.

In case of inadequate ventilation wear respiratory protection.

Wear protective gloves.

Do not eat, drink or smoke when using this product.

Wash thoroughly after handling.

Contaminated work clothing must not be allowed out of the workplace.

## Response:

IF INHALED: If breathing is difficult, remove person to fresh air and keep comfortable for breathing.

If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

IF ON SKIN: Wash with plenty of soap and water.

If skin irritation or rash occurs: Get medical advice/attention.

Wash contaminated clothing before reuse.

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.

### **Supplemental Information:**

Persons previously sensitized to isocyanates may develop a cross-sensitization reaction to other isocyanates.

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

# **SECTION 3: Composition/information on ingredients**

| Ingredient                             | C.A.S. No.  | % by Wt                  |
|--|-------------|--------------------------|
| Urethane Polymer                       | 51447-37-1  | 40 - 70 Trade Secret *   |
| Titanium Dioxide                       | 13463-67-7  | 10 - 30 Trade Secret *   |
| Fumed Silica                           | 112945-52-5 | 1 - 5 Trade Secret *     |
| P,P'-Methylenebis(Phenyl Isocyanate)   | 101-68-8    | < 2.4 Trade Secret *     |
| Zinc Oxide                             | 1314-13-2   | < 2.3 Trade Secret *     |
| Alkyl Isocynate Silane                 | 85702-90-5  | < 2 Trade Secret *       |
| Alumina Trihydrate                     | 21645-51-2  | < 2 Trade Secret *       |
| Carbitol Acetate                       | 112-15-2    | < 2 Trade Secret *       |
| Fumed Silica                           | 7631-86-9   | 0.5 - 1.5 Trade Secret * |
| Toluene                                | 108-88-3    | <= 0.75 Trade Secret *   |
| Heptane                                | 142-82-5    | < 0.3 Trade Secret *     |
| (Gamma-mercaptopropyl)trimethoxysilane | 4420-74-0   | < 0.2 Trade Secret *     |
| Methylene Chloride                     | 75-09-2     | < 0.01 Trade Secret *    |

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

## **SECTION 4: First aid measures**

### 4.1. Description of first aid measures

#### Inhalation:

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

#### Skin Contact:

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

### **Eye Contact:**

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. Special hazards arising from the substance or mixture

None inherent in this product.

# **Hazardous Decomposition or By-Products**

Substance
Isocyanates
Carbon monoxide

## Condition

During Combustion
During Combustion

Carbon dioxide Hydrogen Cyanide Oxides of Nitrogen Oxides of Sulfur Toxic Vapor, Gas, Particulate **During Combustion During Combustion During Combustion During Combustion During Combustion** 

### 5.3. Special protective 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 vapors, in accordance with good industrial hygiene practice. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

### 6.2. Environmental precautions

Avoid release to the environment. For larger spills, cover drains and build dikes to prevent entry into sewer systems or bodies of water.

## 6.3. Methods and material for containment and cleaning up

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/vapors/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wash contaminated clothing before reuse. 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.

# **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 |
|--------------------------|------------|--------|---------------|---------------------|
| P,P'-Methylenebis(Phenyl | 101-68-8   | ACGIH  | TWA:0.005 ppm |                     |
| Isocyanate)              |            |        |               |                     |

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| P,P'-Methylenebis(Phenyl Isocyanate) | 101-68-8   | OSHA  | CEIL:0.2 mg/m3(0.02 ppm)                         |   |
|--------------------------------------|------------|-------|--|---|
| Toluene                              | 108-88-3   | ACGIH | TWA:20 ppm                                       | A4: Not class. as human carcin, Ototoxicant |
| Toluene                              | 108-88-3   | OSHA  | TWA:200 ppm;CEIL:300 ppm                         |   |
| SILICA, AMORPHOUS                    | 112945-52- | OSHA  | TWA:20 millions of                               |   |
|                                      | 5          |       | particles/cu. ft.;TWA                            |   |
|                                      |            |       | concentration:0.8 mg/m3                          |   |
| Zinc Oxide                           | 1314-13-2  | ACGIH | TWA(respirable fraction):2                       |   |
|                                      |            |       | mg/m3;STEL(respirable                            |   |
|                                      |            |       | fraction):10 mg/m3                               |   |
| Zinc Oxide                           | 1314-13-2  | OSHA  | TWA(as total dust):15                            |   |
|                                      |            |       | mg/m3;TWA(respirable                             |   |
|                                      |            |       | fraction):5 mg/m3;TWA(as                         |   |
|                                      |            |       | fume):5 mg/m3                                    |   |
| Titanium Dioxide                     | 13463-67-7 | ACGIH | TWA:10 mg/m3                                     | A4: Not class. as human                     |
|                                      |            |       |  | carcin                                      |
| Titanium Dioxide                     | 13463-67-7 | OSHA  | TWA(as total dust):15 mg/m3                      |   |
| Heptane                              | 142-82-5   | ACGIH | TWA:400 ppm;STEL:500 ppm                         |   |
| Heptane                              | 142-82-5   | OSHA  | TWA:2000 mg/m3(500 ppm)                          |   |
| Aluminum, insoluble compounds        | 21645-51-2 | ACGIH | TWA(respirable fraction):1                       | A4: Not class. as human                     |
| _                                    |            |       | mg/m3  | carcin                                      |
| DUST, INERT OR NUISANCE              | 21645-51-2 | OSHA  | TWA(as total dust):15                            |   |
|                                      |            |       | mg/m3;TWA(as total dust):50                      |   |
|                                      |            |       | millions of particles/cu. ft.(15                 |   |
|                                      |            |       | mg/m3);TWA(respirable                            |   |
|                                      |            |       | fraction):5                                      |   |
|                                      |            |       | mg/m3;TWA(respirable                             |   |
|                                      |            |       | fraction):15 millions of                         |   |
|                                      |            |       | particles/cu. ft.(5 mg/m3)                       |   |
| Methylene Chloride                   | 75-09-2    | ACGIH | TWA:50 ppm A3: Confirme carcin.                  |   |
| Methylene Chloride                   | 75-09-2    | OSHA  | TWA:25 ppm;STEL:125 ppm 29 CFR 1910.105:<br>SKIN |   |
| SILICA, AMORPHOUS                    | 7631-86-9  | OSHA  | TWA:20 millions of                               |   |
|                                      |            |       | particles/cu. ft.;TWA                            |   |
|                                      |            |       | concentration:0.8 mg/m3                          |   |

ACGIH: American Conference of Governmental Industrial Hygienists

AIHA: American Industrial Hygiene Association

CMRG: Chemical Manufacturer's Recommended Guidelines

OSHA: United States Department of Labor - Occupational Safety and Health Administration

TWA: Time-Weighted-Average STEL: Short Term Exposure Limit

CEIL: Ceiling

## 8.2. Exposure controls

## 8.2.1. Engineering controls

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

## 8.2.2. Personal protective equipment (PPE)

## Eye/face protection

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 (eg. spraying, high splash potential etc.), then use of protective coveralls may be necessary. Select and use body protection to prevent contact based on the results of an exposure assessment. The following protective clothing material(s) are recommended: Apron - polymer laminate

## Respiratory protection

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

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

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

# **SECTION 9: Physical and chemical properties**

## 9.1. Information on basic physical and chemical properties

**Appearance** 

Physical state Liquid White Color

**Specific Physical Form:** Paste

Odor Slight Urethane **Odor threshold** No Data Available Not Applicable рH **Melting point** Not Applicable

**Boiling Point** Not Applicable **Flash Point** No flash point No Data Available **Evaporation rate** Not Applicable Flammability (solid, gas) Not Applicable Flammable Limits(LEL) Not Applicable Flammable Limits(UEL) No Data Available Vapor Pressure **Vapor Density** No Data Available

**Density** 1.3 g/ml

**Specific Gravity** 1.3 [Ref Std:WATER=1]

Solubility in Water

Solubility- non-water No Data Available Partition coefficient: n-octanol/ water No Data Available **Autoignition temperature** No Data Available **Decomposition temperature** No Data Available

Viscosity 100,000 - 500,000 centipoise

**Hazardous Air Pollutants** 2.6 % weight [Test Method: Calculated]

Molecular weight No Data Available

**Volatile Organic Compounds** 38 g/l [Test Method: tested per EPA method 24] [Details: EU

VOC content1

2.83 % weight Percent volatile

38 g/l [Test Method:tested per EPA method 24] **VOC Less H2O & Exempt Solvents** 

# **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 colored 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                                  |
|--------------------|------------|-------------------------------|---|
| Methylene Chloride | 75-09-2    | Grp. 2A: Probable human carc. | International Agency for Research on Cancer |
| Methylene Chloride | 75-09-2    | Anticipated human carcinogen  | National Toxicology Program Carcinogens     |
| Methylene Chloride | 75-09-2    | Cancer hazard                 | OSHA Carcinogens                            |
| 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-<br>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-<br>Dust/Mist<br>(4 hours) | Rat     | LC50 > 6.82 mg/l                               |
| Titanium Dioxide                     | Ingestion                             | Rat     | LD50 > 10,000 mg/kg                            |
| Fumed Silica                         | Dermal                                | Rabbit  | LD50 > 5,000 mg/kg                             |
| Fumed Silica                         | Inhalation-<br>Dust/Mist<br>(4 hours) | Rat     | LC50 > 0.691 mg/l                              |
| Fumed 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-<br>Dust/Mist<br>(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-<br>Dust/Mist<br>(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                             |

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| Fumed Silica                           | Inhalation-<br>Dust/Mist<br>(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                     | Ingestion                             | Rat    | LD50 > 5,000 mg/kg                 |
| Toluene                                | Dermal                                | Rat    | LD50 12,000 mg/kg                  |
| Toluene                                | Inhalation-<br>Vapor (4               | Rat    | LC50 30 mg/l                       |
|  | hours)                                |        |                                    |
| Toluene                                | Ingestion                             | Rat    | LD50 5,550 mg/kg                   |
| Heptane                                | Dermal                                | Rabbit | LD50 3,000 mg/kg                   |
| Heptane                                | Inhalation-<br>Vapor (4<br>hours)     | Rat    | LC50 103 mg/l                      |
| Heptane                                | Ingestion                             | Rat    | LD50 > 15,000 mg/kg                |
| (Gamma-mercaptopropyl)trimethoxysilane | Dermal                                | Rabbit | LD50 2,270 mg/kg                   |
| (Gamma-mercaptopropyl)trimethoxysilane | Ingestion                             | Rat    | LD50 770 mg/kg                     |
| Methylene Chloride                     | Dermal                                | Rat    | LD50 > 2,000 mg/kg                 |
| Methylene Chloride                     | Inhalation-                           | Rat    | LC50 63.7 mg/l                     |
|  | Vapor (4 hours)                       |        |                                    |
| Methylene Chloride                     | Ingestion                             | Rat    | LD50 1,410 mg/kg                   |

ATE = acute toxicity estimate

# Skin Corrosion/Irritation

| Name                                   | Species    | Value                     |
|--|------------|---------------------------|
|  |            |                           |
| Titanium Dioxide                       | Rabbit     | No significant irritation |
| Fumed Silica                           | Rabbit     | No significant irritation |
| P,P'-Methylenebis(Phenyl Isocyanate)   | official   | Irritant                  |
|  | classifica |                           |
|  | tion       |                           |
| Zinc Oxide                             | Human      | No significant irritation |
|  | and        |                           |
|  | animal     |                           |
| Carbitol Acetate                       | Human      | Minimal irritation        |
|  | and        |                           |
|  | animal     |                           |
| Fumed Silica                           | Rabbit     | No significant irritation |
| Alumina Trihydrate                     | Rabbit     | No significant irritation |
| Toluene                                | Rabbit     | Irritant                  |
| Heptane                                | Human      | Mild irritant             |
| (Gamma-mercaptopropyl)trimethoxysilane | Rabbit     | No significant irritation |
| Methylene Chloride                     | Rabbit     | Irritant                  |

**Serious Eye Damage/Irritation** 

| Name                                   | Species    | Value                     |
|--|------------|---------------------------|
|  |            |                           |
| Titanium Dioxide                       | Rabbit     | No significant irritation |
| Fumed Silica                           | Rabbit     | No significant irritation |
| P,P'-Methylenebis(Phenyl Isocyanate)   | official   | Severe irritant           |
|  | classifica |                           |
|  | tion       |                           |
| Zinc Oxide                             | Rabbit     | Mild irritant             |
| Carbitol Acetate                       | Rabbit     | Severe irritant           |
| Fumed Silica                           | Rabbit     | No significant irritation |
| Alumina Trihydrate                     | Rabbit     | No significant irritation |
| Toluene                                | Rabbit     | Moderate irritant         |
| Heptane                                | Professio  | Moderate irritant         |
|  | nal        |                           |
|  | judgeme    |                           |
|  | nt         |                           |
| (Gamma-mercaptopropyl)trimethoxysilane | Rabbit     | No significant irritation |

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| Methylene Chloride | Rabbit | Severe irritant |
|--------------------|--------|-----------------|

# **Skin Sensitization**

| Name                                   | Species    | Value          |
|--|------------|----------------|
| Titanium Dioxide                       | Human      | Not classified |
|  | and        |                |
|  | animal     |                |
| Fumed Silica                           | Human      | Not classified |
|  | and        |                |
|  | animal     |                |
| P,P'-Methylenebis(Phenyl Isocyanate)   | official   | Sensitizing    |
|  | classifica |                |
|  | tion       |                |
| Zinc Oxide                             | Guinea     | Not classified |
|  | pig        |                |
| Carbitol Acetate                       | Human      | Not classified |
|  | and        |                |
|  | animal     |                |
| Fumed Silica                           | Human      | Not classified |
|  | and        |                |
|  | animal     |                |
| Alumina Trihydrate                     | Guinea     | Not classified |
|  | pig        |                |
| Toluene                                | Guinea     | Not classified |
|  | pig        |                |
| (Gamma-mercaptopropyl)trimethoxysilane | Guinea     | Sensitizing    |
|  | pig        |                |

**Respiratory Sensitization** 

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

**Germ Cell Mutagenicity** 

| Name                                   | Route    | Value  |
|--|----------|--|
|  |          |  |
| Titanium Dioxide                       | In Vitro | Not mutagenic  |
| Titanium Dioxide                       | In vivo  | Not mutagenic  |
| Fumed 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  |
| Toluene                                | In Vitro | Not mutagenic  |
| Toluene                                | In vivo  | Not mutagenic  |
| Heptane                                | In Vitro | Not mutagenic  |
| (Gamma-mercaptopropyl)trimethoxysilane | In Vitro | Not mutagenic  |
| Methylene Chloride                     | In vivo  | Not mutagenic  |
| Methylene Chloride                     | In Vitro | Some positive data exist, but the data are not sufficient for classification |

Carcinogenicity

| Caremogenicity                       |            |          |  |
|--------------------------------------|------------|----------|--|
| Name                                 | Route      | Species  | Value  |
| Titanium Dioxide                     | Ingestion  | Multiple | Not carcinogenic                               |
|                                      |            | animal   | _  |
|                                      |            | species  |  |
| Titanium Dioxide                     | Inhalation | Rat      | Carcinogenic                                   |
| Fumed Silica                         | Not        | Mouse    | Some positive data exist, but the data are not |
|                                      | Specified  |          | sufficient for classification                  |
| P,P'-Methylenebis(Phenyl Isocyanate) | Inhalation | Rat      | Some positive data exist, but the data are not |

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|  |  | 12. |  |
|--|--|-----|--|
|  |  |     |  |
|  |  |     |  |
|  |  |     |  |

|                    |                  |                               | sufficient for classification  |
|--------------------|------------------|-------------------------------|--|
| Fumed Silica       | Not<br>Specified | Mouse                         | Some positive data exist, but the data are not sufficient for classification |
| Alumina Trihydrate | Not<br>Specified | Multiple<br>animal<br>species | Not 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 |
| Methylene Chloride | Inhalation       | Multiple<br>animal<br>species | Carcinogenic   |

# Reproductive Toxicity

Reproductive and/or Developmental Effects

| Name                                 | Route      | Value  | Species                       | Test Result              | Exposure<br>Duration         |
|--------------------------------------|------------|--|-------------------------------|--------------------------|------------------------------|
| Fumed Silica                         | Ingestion  | Not classified for female reproduction             | Rat                           | NOAEL 509<br>mg/kg/day   | 1 generation                 |
| Fumed Silica                         | Ingestion  | Not classified for male reproduction               | Rat                           | NOAEL 497<br>mg/kg/day   | 1 generation                 |
| Fumed Silica                         | Ingestion  | Not classified for development                     | Rat                           | NOAEL 1,350<br>mg/kg/day | during<br>organogenesi<br>s  |
| P,P'-Methylenebis(Phenyl Isocyanate) | Inhalation | Not classified for development                     | Rat                           | NOAEL 0.004<br>mg/l      | during<br>organogenesi<br>s  |
| Zinc Oxide                           | Ingestion  | Not classified for reproduction and/or development | Multiple<br>animal<br>species | NOAEL 125<br>mg/kg/day   | premating & during gestation |
| Fumed Silica                         | Ingestion  | Not classified for female reproduction             | Rat                           | NOAEL 509<br>mg/kg/day   | 1 generation                 |
| Fumed Silica                         | Ingestion  | Not classified for male reproduction               | Rat                           | NOAEL 497<br>mg/kg/day   | 1 generation                 |
| Fumed Silica                         | Ingestion  | Not classified for development                     | Rat                           | NOAEL 1,350<br>mg/kg/day | during<br>organogenesi<br>s  |
| Alumina Trihydrate                   | Ingestion  | Not classified for development                     | Rat                           | NOAEL 768<br>mg/kg/day   | during<br>organogenesi<br>s  |
| Toluene                              | Inhalation | Not classified for female reproduction             | Human                         | NOAEL Not available      | occupational exposure        |
| Toluene                              | Inhalation | Not classified for male reproduction               | Rat                           | NOAEL 2.3<br>mg/l        | 1 generation                 |
| Toluene                              | Ingestion  | Toxic to development                               | Rat                           | LOAEL 520<br>mg/kg/day   | during<br>gestation          |
| Toluene                              | Inhalation | Toxic to development                               | Human                         | NOAEL Not available      | poisoning and/or abuse       |
| Methylene Chloride                   | Inhalation | Not classified for female reproduction             | Rat                           | NOAEL 5.2<br>mg/l        | 2 generation                 |
| Methylene Chloride                   | Inhalation | Not classified for male reproduction               | Rat                           | NOAEL 5.2<br>mg/l        | 2 generation                 |
| Methylene Chloride                   | Inhalation | Not classified for development                     | Multiple<br>animal<br>species | NOAEL 4.3<br>mg/l        | during<br>gestation          |

# Target Organ(s)

**Specific Target Organ Toxicity - single exposure** 

| Name | Route | Target Organ(s) | Value | Species | Test Result | Exposure |
|------|-------|-----------------|-------|---------|-------------|----------|
|      |       |                 |       |         |             | Duration |

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| P,P'-Methylenebis(Phenyl Isocyanate) | Inhalation | respiratory irritation               | May cause respiratory irritation   | official<br>classifica<br>tion | NOAEL Not available    |                           |
|--------------------------------------|------------|--------------------------------------|--|--------------------------------|------------------------|---------------------------|
| Carbitol Acetate                     | Inhalation | central nervous<br>system depression | May cause drowsiness or dizziness  | Human<br>and<br>animal         | NOAEL Not<br>available | not applicable            |
| Carbitol Acetate                     | Ingestion  | central nervous<br>system depression | May cause drowsiness or dizziness  | Multiple<br>animal<br>species  | NOAEL Not<br>available | not applicable            |
| Toluene                              | Inhalation | central nervous<br>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<br>available |                           |
| Toluene                              | Inhalation | immune system                        | Not classified   | Mouse                          | NOAEL<br>0.004 mg/l    | 3 hours                   |
| Toluene                              | Ingestion  | central nervous<br>system depression | May cause drowsiness or dizziness  | Human                          | NOAEL Not available    | poisoning<br>and/or abuse |
| Heptane                              | Inhalation | central nervous<br>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 | Human                          | NOAEL Not<br>available |                           |
| Heptane                              | Ingestion  | central nervous<br>system depression | May cause drowsiness or dizziness  | Human                          | NOAEL Not available    |                           |
| Methylene Chloride                   | Dermal     | blood                                | Some positive data exist, but the data are not sufficient for classification | Rat                            | NOAEL Not<br>available | 4 hours                   |
| Methylene Chloride                   | Inhalation | central nervous<br>system depression | May cause drowsiness or dizziness  | Human                          | NOAEL Not available    | occupational exposure     |
| Methylene Chloride                   | Inhalation | blood                                | Some positive data exist, but the data are not sufficient for classification | Human                          | NOAEL Not<br>available |                           |
| Methylene Chloride                   | Inhalation | respiratory irritation               | Some positive data exist, but the data are not sufficient for classification |                                | NOAEL Not<br>available |                           |

**Specific Target Organ Toxicity - repeated exposure** 

| Name                                 | Route      | Target Organ(s)   | Value  | Species | Test Result            | Exposure<br>Duration      |
|--------------------------------------|------------|---|--|---------|------------------------|---------------------------|
| Titanium Dioxide                     | Inhalation | respiratory system  | Some positive data exist, but the data are not sufficient for classification | Rat     | LOAEL 0.01<br>mg/l     | 2 years                   |
| Titanium Dioxide                     | Inhalation | pulmonary fibrosis  | Not classified   | Human   | NOAEL Not available    | occupational exposure     |
| Fumed Silica                         | Inhalation | respiratory system  <br>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<br>0.004 mg/l    | 13 weeks                  |
| Zinc Oxide                           | Ingestion  | nervous system  | Not classified   | Rat     | NOAEL 600<br>mg/kg/day | 10 days                   |
| Zinc Oxide                           | Ingestion  | endocrine system  <br>hematopoietic<br>system   kidney<br>and/or bladder    | Not classified   | Other   | NOAEL 500<br>mg/kg/day | 6 months                  |
| Carbitol Acetate                     | Inhalation | respiratory system  <br>liver   immune<br>system   kidney<br>and/or bladder | Not classified   | Rat     | NOAEL 0.48<br>mg/l     | 2 weeks                   |
| Fumed Silica                         | Inhalation | respiratory system  <br>silicosis   | Not classified   | Human   | NOAEL Not available    | occupational exposure     |
| Toluene                              | Inhalation | auditory system  <br>eyes   olfactory<br>system                             | Causes damage to organs through prolonged or repeated exposure               | Human   | NOAEL Not<br>available | poisoning<br>and/or abuse |
| Toluene                              | Inhalation | nervous system  | May cause damage to organs though prolonged or repeated exposure             | Human   | NOAEL Not<br>available | poisoning<br>and/or abuse |

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| Toluene            | Inhalation | respiratory system                                   | Some positive data exist, but the data are not sufficient for classification | Rat                           | LOAEL 2.3<br>mg/l           | 15 months             |
|--------------------|------------|--|--|-------------------------------|-----------------------------|-----------------------|
| Toluene            | Inhalation | heart   liver   kidney<br>and/or bladder             | Not classified   | Rat                           | NOAEL 11.3<br>mg/l          | 15 weeks              |
| Toluene            | Inhalation | endocrine system                                     | Not classified   | Rat                           | NOAEL 1.1<br>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<br>mg/l           | 8 weeks               |
| Toluene            | Inhalation | hematopoietic<br>system   vascular<br>system         | Not classified   | Human                         | NOAEL Not<br>available      | occupational exposure |
| Toluene            | Inhalation | gastrointestinal tract                               | Not classified   | Multiple<br>animal<br>species | NOAEL 11.3<br>mg/l          | 15 weeks              |
| Toluene            | Ingestion  | nervous system                                       | Some positive data exist, but the data are not sufficient for classification | Rat                           | NOAEL 625<br>mg/kg/day      | 13 weeks              |
| Toluene            | Ingestion  | heart  | Not classified   | Rat                           | NOAEL<br>2,500<br>mg/kg/day | 13 weeks              |
| Toluene            | Ingestion  | liver   kidney and/or<br>bladder                     | Not classified   | Multiple<br>animal<br>species | NOAEL<br>2,500<br>mg/kg/day | 13 weeks              |
| Toluene            | Ingestion  | hematopoietic<br>system                              | Not classified   | Mouse                         | NOAEL 600<br>mg/kg/day      | 14 days               |
| Toluene            | Ingestion  | endocrine system                                     | Not classified   | Mouse                         | NOAEL 105<br>mg/kg/day      | 28 days               |
| Toluene            | Ingestion  | immune system  | Not classified   | Mouse                         | NOAEL 105<br>mg/kg/day      | 4 weeks               |
| Heptane            | Inhalation | liver   nervous<br>system   kidney<br>and/or bladder | Not classified   | Rat                           | NOAEL 12<br>mg/l            | 26 weeks              |
| Methylene Chloride | Inhalation | kidney and/or<br>bladder                             | Some positive data exist, but the data are not sufficient for classification | Rat                           | LOAEL 6.95<br>mg/l          | 2 years               |
| Methylene Chloride | Inhalation | liver  | Some positive data exist, but the data are not sufficient for classification | Rat                           | NOAEL 0.17<br>mg/l          | 2 years               |
| Methylene Chloride | Inhalation | respiratory system                                   | Some positive data exist, but the data are not sufficient for classification | Multiple<br>animal<br>species | LOAEL 35<br>mg/l            | 8 weeks               |
| Methylene Chloride | Inhalation | heart  | Not classified   | Human                         | NOAEL Not available         |                       |
| Methylene Chloride | Inhalation | immune system  | Not classified   | Rat                           | NOAEL 18<br>mg/l            | 28 days               |
| Methylene Chloride | Ingestion  | liver  | Some positive data exist, but the data are not sufficient for classification | Rat                           | LOAEL<br>1,200<br>mg/kg/day | 3 months              |
| Methylene Chloride | Ingestion  | blood  | Not classified   | Rat                           | NOAEL 249<br>mg/kg/day      | 2 years               |
| Methylene Chloride | Ingestion  | kidney and/or<br>bladder                             | Not classified   | Rat                           | NOAEL<br>1,469<br>mg/kg/day | 3 months              |
| Methylene Chloride | Ingestion  | eyes   | Not classified   | Rat                           | NOAEL 249<br>mg/kg/day      | 104 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.

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# **SECTION 12: Ecological information**

## **Ecotoxicological information**

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

#### Chemical fate information

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

# **SECTION 13: Disposal considerations**

### 13.1. Disposal methods

Dispose of contents/ container in accordance with the local/regional/national/international regulations.

Dispose of completely cured (or polymerized) material in a permitted industrial waste facility. As a disposal alternative, incinerate uncured product in a permitted waste incineration facility. Proper destruction may require the use of additional fuel during incineration processes. 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.

EPA Hazardous Waste Number (RCRA): D018 (Benzene)

# **SECTION 14: Transport Information**

For Transport Information, please visit http://3M.com/Transportinfo or call 1-800-364-3577 or 651-737-6501.

# **SECTION 15: Regulatory information**

# 15.1. US Federal Regulations

Contact 3M for more information.

### **EPCRA 311/312 Hazard Classifications:**

| Physical Hazards |
|------------------|
|------------------|

Not applicable

#### Health Hazards

Reproductive toxicity

Respiratory or Skin Sensitization

Specific target organ toxicity (single or repeated exposure)

Section 313 Toxic Chemicals subject to the reporting requirements of that section and 40 CFR part 372 (EPCRA):

<u>Ingredient</u>

L.A.S. INU

<u>% by Wt</u>

P,P'-Methylenebis(Phenyl Isocyanate) 101-

101-68-8 Trade Secret < 2.4

This material contains a chemical which requires export notification under TSCA Section 12[b]:

**Ingredient (Category if applicable)** 

C.A.S. No

Regulation

Status

3M<sup>™</sup> Marine Adhesive Sealant Fast Cure 5200, White; PN 06520 , 05220, 06534, 06535

05/07/21

Methylene Chloride 75-09-2 Toxic Substances Control Act (TSCA) 6 Applicable

Banned or Restricted Use Chemicals

#### **Additional TSCA Information**

| Components         | CAS No  | Additional Information  |
|--------------------|---------|---|
| Methylene Chloride | 75-09-2 | This chemical/product is not and cannot be distributed in commerce (as defined in TSCA section 3(5)) or processed (as defined in TSCA section 3(13)) for consumer paint or coating removal. |

## 15.2. State Regulations

Contact 3M for more information.

### 15.3. Chemical Inventories

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.

Contact 3M for more information.

# 15.4. International Regulations

Contact 3M for more information.

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

## **SECTION 16: Other information**

### NFPA Hazard Classification

Health: 2 Flammability: 1 Instability: 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.

 Document Group:
 16-5850-9
 Version Number:
 14.02

 Issue Date:
 05/07/21
 Supercedes Date:
 04/27/21

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