



## Safety Data Sheet

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|                        |           |                         |          |
|------------------------|-----------|-------------------------|----------|
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| <b>Issue Date:</b>     | 05/21/18  | <b>Supersedes Date:</b> | 12/11/17 |

### SECTION 1: Identification

#### 1.1. Product identifier

3M(TM) Marine Silicone Sealant - White, P.N. 08017, 08027

#### Product Identification Numbers

60-9800-4281-0, 60-9800-4308-1, 62-8027-5235-2

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

##### Recommended use

Marine Mildew Resistant Silicone, Sealant

#### 1.3. Supplier's details

|                      |   |
|----------------------|---|
| <b>MANUFACTURER:</b> | 3M                                      |
| <b>DIVISION:</b>     | Industrial Adhesives and Tapes Division |
| <b>ADDRESS:</b>      | 3M Center, St. Paul, MN 55144-1000, USA |
| <b>Telephone:</b>    | 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

Serious Eye Damage/Irritation: Category 2A.

Skin Corrosion/Irritation: Category 2.

Reproductive Toxicity: Category 2.

#### 2.2. Label elements

##### Signal word

Warning

##### Symbols

Exclamation mark | Health Hazard |

##### Pictograms

**Hazard Statements**

Causes serious eye irritation.  
 Causes skin irritation.  
 Suspected of damaging fertility or the unborn child.

**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.  
 Wear protective gloves and eye/face protection.  
 Wash thoroughly after handling.

**Response:**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 If eye irritation persists: Get medical advice/attention.  
 IF ON SKIN: Wash with plenty of soap and water.  
 If skin irritation occurs: Get medical advice/attention.  
 Take off contaminated clothing and wash it before reuse.  
 IF exposed or concerned: Get medical advice/attention.

**Storage:**

Store locked up.

**Disposal:**

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

### SECTION 3: Composition/information on ingredients

| Ingredient   | C.A.S. No. | % by Wt                |
|--|------------|------------------------|
| Siloxanes And Silicones, DI-ME, Hydroxy-Terminated | 70131-67-8 | 60 - 80 Trade Secret * |
| Ethyltriacetoxysilane                              | 17689-77-9 | 5 - 10 Trade Secret *  |
| Methyltriacetoxysilane                             | 4253-34-3  | 5 - 10 Trade Secret *  |
| Silica   | 7631-86-9  | 5 - 10 Trade Secret *  |
| Titanium Dioxide                                   | 13463-67-7 | < 2 Trade Secret *     |
| Octamethylcyclotetrasiloxane                       | 556-67-2   | < 1 Trade Secret *     |
| Siloxanes and Silicones, di-Me                     | 63148-62-9 | < 1 Trade Secret *     |

\*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:**

Immediately flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. Get medical attention.

**If Swallowed:**

Rinse mouth. If you are concerned, get medical advice.

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

See Section 11.1. Information on toxicological effects.

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

Not applicable

**SECTION 5: Fire-fighting measures****5.1. Suitable extinguishing media**

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

**5.2. Special hazards arising from the substance or mixture**

None inherent in this product.

**Hazardous Decomposition or By-Products****Substance**

Acetic Acid  
Carbon monoxide  
Carbon dioxide  
Irritant Vapors or Gases  
Oxides of Sulfur

**Condition**

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.

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

Collect as much of the spilled material as possible. Place in a closed container approved for transportation by appropriate authorities. Clean up residue. Seal the container. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Keep out of reach of children. Do not handle until all safety precautions have been read and understood. Avoid breathing 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. Avoid release to the environment. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.) Use personal protective equipment (gloves, respirators, etc.) as required.

### 7.2. Conditions for safe storage including any incompatibilities

Store away from oxidizing agents.

## 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            |
|------------------------------|------------|--------|--|--------------------------------|
| Titanium Dioxide             | 13463-67-7 | ACGIH  | TWA: 10 mg/m <sup>3</sup>  | A4: Not class. as human carcin |
| Titanium Dioxide             | 13463-67-7 | OSHA   | TWA(as total dust): 15 mg/m <sup>3</sup>   |                                |
| Octamethylcyclotetrasiloxane | 556-67-2   | AIHA   | TWA: 10 ppm  |                                |
| SILICA, AMORPHOUS            | 7631-86-9  | OSHA   | TWA concentration: 0.8 mg/m <sup>3</sup> ; TWA: 20 millions of particles/cu. ft. |                                |

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

Provide ventilated enclosure for heat 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/vapors/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:

Indirect Vented Goggles

##### 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

### 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

|  |  |
|--|--|
| <b>General Physical Form:</b>                        | Solid  |
| <b>Specific Physical Form:</b>                       | Paste  |
| <b>Odor, Color, Grade:</b>                           | White paste; acetic acid odor                              |
| <b>Odor threshold</b>                                | <i>No Data Available</i>                                   |
| <b>pH</b>  | <i>Not Applicable</i>                                      |
| <b>Melting point</b>                                 | <i>No Data Available</i>                                   |
| <b>Boiling Point</b>                                 | <i>Not Applicable</i>                                      |
| <b>Flash Point</b>                                   | No flash point   |
| <b>Evaporation rate</b>                              | <i>Not Applicable</i>                                      |
| <b>Flammability (solid, gas)</b>                     | Not Classified   |
| <b>Flammable Limits(LEL)</b>                         | <i>Not Applicable</i>                                      |
| <b>Flammable Limits(UEL)</b>                         | <i>Not Applicable</i>                                      |
| <b>Vapor Pressure</b>                                | <i>Not Applicable</i>                                      |
| <b>Vapor Density</b>                                 | <i>Not Applicable</i>                                      |
| <b>Density</b>                                       | 1.02 g/cm <sup>3</sup>                                     |
| <b>Specific Gravity</b>                              | 1.02 [ <i>Ref Std:WATER=1</i> ]                            |
| <b>Solubility In Water</b>                           | <i>No Data Available</i>                                   |
| <b>Solubility- non-water</b>                         | <i>No Data Available</i>                                   |
| <b>Partition coefficient: n-octanol/ water</b>       | <i>No Data Available</i>                                   |
| <b>Autoignition temperature</b>                      | <i>No Data Available</i>                                   |
| <b>Decomposition temperature</b>                     | <i>No Data Available</i>                                   |
| <b>Viscosity</b>                                     | <i>Not Applicable</i>                                      |
| <b>Hazardous Air Pollutants</b>                      | 0 % weight [ <i>Test Method:Calculated</i> ]               |
| <b>Percent volatile</b>                              | 2 - 4 % weight   |
| <b>VOC Less H<sub>2</sub>O &amp; Exempt Solvents</b> | 22 g/l [ <i>Test Method:calculated SCAQMD rule 443.1</i> ] |
| <b>VOC Less H<sub>2</sub>O &amp; Exempt Solvents</b> | 2.2 % [ <i>Test Method:calculated per EPA method 24</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

Not determined

#### 10.5. Incompatible materials

Strong oxidizing agents

#### 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.

May cause additional health effects (see below).

##### **Skin Contact:**

Skin Irritation: Signs/symptoms may include localized redness, swelling, itching, dryness, cracking, blistering, and pain.

##### **Eye Contact:**

Severe Eye Irritation: Signs/symptoms may include significant redness, swelling, pain, tearing, cloudy appearance of the cornea, and impaired vision.

##### **Ingestion:**

May cause additional health effects (see below).

#### **Additional Health Effects:**

##### **Reproductive/Developmental Toxicity:**

Contains a chemical or chemicals which can cause birth defects or other reproductive harm.

##### **Carcinogenicity:**

| <u>Ingredient</u> | <u>CAS No.</u> | <u>Class Description</u>      | <u>Regulation</u>                           |
|-------------------|----------------|-------------------------------|---|
| Titanium Dioxide  | 13463-67-7     | Grp. 2B: Possible human carc. | International Agency for Research on Cancer |

#### **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                                    | Ingestion                      |         | No data available; calculated ATE >5,000 mg/kg |
| Siloxanes And Silicones, DI-ME, Hydroxy-Terminated | Dermal                         | Rabbit  | LD50 > 16,000 mg/kg                            |
| Siloxanes And Silicones, DI-ME, Hydroxy-Terminated | Ingestion                      | Rat     | LD50 > 64,000 mg/kg                            |
| Ethyltriacetoxysilane                              | Ingestion                      | Rat     | LD50 1,462 mg/kg                               |
| Methyltriacetoxysilane                             | Ingestion                      | Rat     | LD50 1,602 mg/kg                               |
| Silica   | Dermal                         | Rabbit  | LD50 > 5,000 mg/kg                             |
| Silica   | Inhalation-Dust/Mist (4 hours) | Rat     | LC50 > 0.691 mg/l                              |
| Silica   | Ingestion                      | Rat     | LD50 > 5,110 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                            |
| Siloxanes and Silicones, di-Me                     | Dermal                         | Rabbit  | LD50 > 19,400 mg/kg                            |
| Octamethylcyclotetrasiloxane                       | Dermal                         | Rat     | LD50 > 2,400 mg/kg                             |
| Octamethylcyclotetrasiloxane                       | Inhalation-Dust/Mist (4 hours) | Rat     | LC50 36 mg/l                                   |
| Octamethylcyclotetrasiloxane                       | Ingestion                      | Rat     | LD50 > 5,000 mg/kg                             |
| Siloxanes and Silicones, di-Me                     | Ingestion                      | Rat     | LD50 > 17,000 mg/kg                            |

ATE = acute toxicity estimate

**Skin Corrosion/Irritation**

| Name                           | Species | Value                     |
|--------------------------------|---------|---------------------------|
| Ethyltriacetoxysilane          | Rabbit  | Corrosive                 |
| Methyltriacetoxysilane         | Rabbit  | Corrosive                 |
| Silica                         | Rabbit  | No significant irritation |
| Titanium Dioxide               | Rabbit  | No significant irritation |
| Octamethylcyclotetrasiloxane   | Rabbit  | Minimal irritation        |
| Siloxanes and Silicones, di-Me | Rabbit  | No significant irritation |

**Serious Eye Damage/Irritation**

| Name                           | Species                | Value                     |
|--------------------------------|------------------------|---------------------------|
| Ethyltriacetoxysilane          | similar health hazards | Corrosive                 |
| Methyltriacetoxysilane         | Rabbit                 | Corrosive                 |
| Silica                         | Rabbit                 | No significant irritation |
| Titanium Dioxide               | Rabbit                 | No significant irritation |
| Octamethylcyclotetrasiloxane   | Rabbit                 | No significant irritation |
| Siloxanes and Silicones, di-Me | Rabbit                 | No significant irritation |

**Skin Sensitization**

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

**Respiratory Sensitization**

For the component/components, either no data are currently available or the data are not sufficient for classification.

### Germ Cell Mutagenicity

| Name   | Route    | Value  |
|--|----------|--|
| Siloxanes And Silicones, DI-ME, Hydroxy-Terminated | In Vitro | Not mutagenic  |
| Silica   | In Vitro | Not mutagenic  |
| Titanium Dioxide                                   | In Vitro | Not mutagenic  |
| Titanium Dioxide                                   | In vivo  | Not mutagenic  |
| Octamethylcyclotetrasiloxane                       | In Vitro | Some positive data exist, but the data are not sufficient for classification |

### Carcinogenicity

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

### Reproductive Toxicity

#### Reproductive and/or Developmental Effects

| Name                         | Route      | Value                                  | Species | Test Result           | Exposure Duration    |
|------------------------------|------------|--|---------|-----------------------|----------------------|
| Silica                       | Ingestion  | Not classified for female reproduction | Rat     | NOAEL 509 mg/kg/day   | 1 generation         |
| Silica                       | Ingestion  | Not classified for male reproduction   | Rat     | NOAEL 497 mg/kg/day   | 1 generation         |
| Silica                       | Ingestion  | Not classified for development         | Rat     | NOAEL 1,350 mg/kg/day | during organogenesis |
| Octamethylcyclotetrasiloxane | Inhalation | Not classified for male reproduction   | Rat     | NOAEL 8.5 mg/l        | 2 generation         |
| Octamethylcyclotetrasiloxane | Ingestion  | Toxic to female reproduction           | Rabbit  | NOAEL 50 mg/kg/day    | during organogenesis |
| Octamethylcyclotetrasiloxane | Inhalation | Toxic to female reproduction           | Rat     | NOAEL 3.6 mg/l        | 2 generation         |

### Target Organ(s)

#### Specific Target Organ Toxicity - single exposure

| Name                   | Route      | Target Organ(s)        | Value  | Species                | Test Result         | Exposure Duration |
|------------------------|------------|------------------------|--|------------------------|---------------------|-------------------|
| Ethyltriacetoxysilane  | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | similar health hazards | NOAEL Not available |                   |
| Methyltriacetoxysilane | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | similar health hazards | NOAEL Not available |                   |

#### Specific Target Organ Toxicity - repeated exposure

| Name             | Route      | Target Organ(s)                | Value  | Species | Test Result         | Exposure Duration     |
|------------------|------------|--------------------------------|--|---------|---------------------|-----------------------|
| Silica           | Inhalation | respiratory system   silicosis | Not classified   | Human   | NOAEL Not available | occupational exposure |
| 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 |



|                              |            |  |                |        |                       |              |
|------------------------------|------------|--|----------------|--------|-----------------------|--------------|
| Octamethylcyclotetrasiloxane | Dermal     | hematopoietic system                                     | Not classified | Rabbit | NOAEL 960 mg/kg/day   | 3 weeks      |
| Octamethylcyclotetrasiloxane | Inhalation | liver  | Not classified | Rat    | NOAEL 8.5 mg/l        | 13 weeks     |
| Octamethylcyclotetrasiloxane | Inhalation | endocrine system   immune system   kidney and/or bladder | Not classified | Rat    | NOAEL 8.5 mg/l        | 2 generation |
| Octamethylcyclotetrasiloxane | Inhalation | hematopoietic system                                     | Not classified | Rat    | NOAEL 8.5 mg/l        | 13 weeks     |
| Octamethylcyclotetrasiloxane | Ingestion  | liver  | Not classified | Rat    | NOAEL 1,600 mg/kg/day | 2 weeks      |

**Aspiration Hazard**

For the component/components, either no data are currently available or the data are not sufficient for classification.

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****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.

Incinerate in a permitted waste incineration facility. Proper destruction may require the use of additional fuel during incineration processes. As a disposal alternative, utilize an acceptable permitted waste disposal facility. 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):** Not regulated

**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

Serious eye damage or eye irritation

Skin Corrosion or Irritation

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

**Ingredient (Category if applicable)**  
Octamethylcyclotetrasiloxane

**C.A.S. No**  
556-67-2

**Regulation**  
Toxic Substances Control Act (TSCA) 4  
Test Rule Chemicals

**Status**  
Applicable

**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: 0 Special Hazards: None**

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

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