



## Safety Data Sheet

Copyright, 2016, 3M Company.

All rights reserved. Copying and/or downloading of this information for the purpose of properly utilizing 3M products is allowed provided that: (1) the information is copied in full with no changes unless prior written agreement is obtained from 3M, and (2) neither the copy nor the original is resold or otherwise distributed with the intention of earning a profit thereon.

**Document Group:** 34-6746-1

**Issue Date:** 11/29/16

**Version Number:** 2.00

**Supersedes Date:** 07/15/16

### SECTION 1: Identification

#### 1.1. Product identifier

3M™ Cavilon™ Advanced Skin Protectant 5050, 5050G

#### Product Identification Numbers

70-2007-8927-2, 70-2007-8930-6

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

##### Recommended use

Skin Protectant

#### 1.3. Supplier's details

**MANUFACTURER:** 3M

**DIVISION:** Critical & Chronic Care Solutions 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

Flammable Liquid: Category 2.

#### 2.2. Label elements

##### Signal word

Danger

##### Symbols

Flame |

##### Pictograms

**Hazard Statements**

Highly flammable liquid and vapor.

**Precautionary Statements****Prevention:**

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
Use only non-sparking tools.

**Response:**

In case of fire: Use a fire fighting agent suitable for flammable liquids such as dry chemical or carbon dioxide to extinguish.

**Storage:**

Store in a well-ventilated place. Keep cool.

**Disposal:**

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

**2.3. Hazards not otherwise classified**

None.

15% of the mixture consists of ingredients of unknown acute oral toxicity.

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

| Ingredient            | C.A.S. No.    | % by Wt                |
|-----------------------|---------------|------------------------|
| HEXAMETHYLDISILOXANE  | 107-46-0      | 80 - 90 Trade Secret * |
| 2-Octyl Cyanoacrylate | 133978-15-1   | 5 - 10 Trade Secret *  |
| Acrylic Polymer       | Trade Secret* | 5 - 10 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:**

No need for first aid is anticipated.

**Skin Contact:**

No need for first aid is anticipated. If signs/symptoms persist, get medical attention.

**Eye Contact:**

No need for first aid is anticipated.

**If Swallowed:**

No need for first aid is anticipated.

**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 flammable liquids such as dry chemical or carbon dioxide to extinguish.

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

Closed containers exposed to heat from fire may build pressure and explode.

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

Carbon monoxide

Carbon dioxide

**Condition**

During Combustion

During Combustion

**5.3. Special protective actions for fire-fighters**

Water may not effectively extinguish fire; however, it should be used to keep fire-exposed containers and surfaces cool and prevent explosive rupture.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools. 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. Warning! A motor could be an ignition source and could cause flammable gases or vapors in the spill area to burn or explode. 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**

Not applicable.

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

Contain spill. 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. Collect as much of the spilled material as possible using non-sparking tools. Place in a metal container approved for transportation by appropriate authorities. Seal the container. Dispose of collected material as soon as possible.

**SECTION 7: Handling and storage****7.1. Precautions for safe handling**

Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools. Take precautionary measures against static discharge. Do not eat, drink or smoke when using this product. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.) Wear low static or properly grounded shoes. To minimize the risk of ignition, determine applicable electrical classifications for the process using this product and select specific local exhaust ventilation equipment to avoid flammable vapor accumulation. Ground/bond container and receiving equipment if there is potential for static electricity accumulation during transfer.

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

Store in a well-ventilated place. Keep cool. Store away from acids. Store away from oxidizing agents.

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

No occupational exposure limit values exist for any of the components listed in Section 3 of this SDS.

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

Use explosion-proof ventilation equipment.

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

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

Safety Glasses with side shields

**Skin/hand protection**

No chemical protective gloves are required.

**Respiratory protection**

None required.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

|                           |                                  |
|---------------------------|----------------------------------|
| General Physical Form:    | Liquid                           |
| Odor, Color, Grade:       | Colorless liquid                 |
| Odor threshold            | Not Applicable                   |
| pH                        | Not Applicable                   |
| Melting point             | -59 °C [Details: Lit]            |
| Boiling Point             | 101 °C                           |
| Boiling Point             | Not Applicable                   |
| Flash Point               | 0.6 °C [Test Method: Closed Cup] |
| Evaporation rate          | Not Applicable                   |
| Evaporation rate          | Not Applicable                   |
| Flammability (solid, gas) | Not Applicable                   |
| Flammable Limits(LEL)     | 0.5 %                            |
| Flammable Limits(LEL)     | Not Applicable                   |
| Flammable Limits(UEL)     | 21.8 %                           |
| Flammable Limits(UEL)     | Not Applicable                   |
| Vapor Pressure            | Not Applicable                   |
| Vapor Pressure            | Not Applicable                   |
| Vapor Density             | 5.61 [Ref Std: AIR=1]            |
| Vapor Density             | Not Applicable                   |
| Density                   | 0.77 g/ml                        |
| Specific Gravity          | 0.77                             |

|                                         |                |
|-----------------------------------------|----------------|
| Solubility In Water                     | Not Applicable |
| Solubility in Water                     | Not Applicable |
| Solubility- non-water                   | Not Applicable |
| Solubility- non-water                   | Not Applicable |
| Partition coefficient: n-octanol/ water | Not Applicable |
| Autoignition temperature                | Not Applicable |
| Decomposition temperature               | Not Applicable |
| Viscosity                               | 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

Sparks and/or flames

### 10.5. Incompatible materials

None known.

### 10.6. Hazardous decomposition products

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

Refer to section 5.2 for hazardous decomposition products during combustion.

## SECTION 11: Toxicological information

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

### 11.1. Information on Toxicological effects

#### Signs and Symptoms of Exposure

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

#### Inhalation:

No health effects are expected.

#### Skin Contact:

Contact with the skin during product use is not expected to result in significant irritation.

**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.

**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 |
| HEXAMETHYLDISILOXANE | Dermal                     | Rabbit  | LD50 > 2,000 mg/kg                              |
| HEXAMETHYLDISILOXANE | Inhalation-Vapor (4 hours) | Rat     | LC50 106 mg/l                                   |
| HEXAMETHYLDISILOXANE | Ingestion                  | Rat     | LD50 > 5,000 mg/kg                              |

ATE = acute toxicity estimate

**Skin Corrosion/Irritation**

| Name                 | Species | Value                     |
|----------------------|---------|---------------------------|
| Overall product      | Rabbit  | No significant irritation |
| HEXAMETHYLDISILOXANE | Rabbit  | No significant irritation |

**Serious Eye Damage/Irritation**

| Name                 | Species | Value         |
|----------------------|---------|---------------|
| HEXAMETHYLDISILOXANE | Rabbit  | Mild irritant |

**Skin Sensitization**

| Name                 | Species    | Value           |
|----------------------|------------|-----------------|
| Overall product      | Human      | Not sensitizing |
| HEXAMETHYLDISILOXANE | Guinea pig | Not sensitizing |

**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         |
|----------------------|----------|---------------|
| HEXAMETHYLDISILOXANE | In Vitro | Not mutagenic |
| HEXAMETHYLDISILOXANE | In vivo  | Not mutagenic |

**Carcinogenicity**

| Name                 | Route      | Species | Value                                                                        |
|----------------------|------------|---------|------------------------------------------------------------------------------|
| HEXAMETHYLDISILOXANE | Inhalation | Rat     | 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 |
|----------------------|------------|------------------------------------------------------------------------------------------------|---------|---------------|-------------------|
| HEXAMETHYLDISILOXANE | Inhalation | Some positive male reproductive data exist, but the data are not sufficient for classification | Rat     | NOAEL 33 mg/l | 13 weeks          |

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

| Name                 | Route      | Target Organ(s)                   | Value                                                                        | Species    | Test Result        | Exposure Duration |
|----------------------|------------|-----------------------------------|------------------------------------------------------------------------------|------------|--------------------|-------------------|
| HEXAMETHYLDISILOXANE | Inhalation | respiratory irritation            | Some positive data exist, but the data are not sufficient for classification | Rat        | NOAEL 33 mg/l      | 6 hours           |
| HEXAMETHYLDISILOXANE | Ingestion  | central nervous system depression | Some positive data exist, but the data are not sufficient for classification | Guinea pig | LOAEL 22,900 mg/kg | not applicable    |

**Specific Target Organ Toxicity - repeated exposure**

| Name                 | Route      | Target Organ(s)                                                                                                                                                                                            | Value                                                                        | Species                 | Test Result                      | Exposure Duration |
|----------------------|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|-------------------------|----------------------------------|-------------------|
| Overall product      | Dermal     | heart   skin   endocrine system   bone, teeth, nails, and/or hair   hematopoietic system   liver   immune system   muscles   nervous system   kidney and/or bladder   respiratory system   vascular system | All data are negative                                                        | Rat                     | NOAEL 63 mg/cm <sup>2</sup> /day | 90 days           |
| HEXAMETHYLDISILOXANE | Dermal     | liver   kidney and/or bladder                                                                                                                                                                              | Some positive data exist, but the data are not sufficient for classification | Rat                     | NOAEL 1,000 mg/kg/day            | 28 days           |
| HEXAMETHYLDISILOXANE | Inhalation | kidney and/or bladder                                                                                                                                                                                      | Some positive data exist, but the data are not sufficient for classification | Rat                     | NOAEL 4 mg/l                     | 13 weeks          |
| HEXAMETHYLDISILOXANE | Inhalation | hematopoietic system                                                                                                                                                                                       | Some positive data exist, but the data are not sufficient for classification | Rat                     | NOAEL 33 mg/l                    | 13 weeks          |
| HEXAMETHYLDISILOXANE | Inhalation | liver                                                                                                                                                                                                      | Some positive data exist, but the data are not sufficient for classification | Multiple animal species | NOAEL 29 mg/l                    | 15 days           |
| HEXAMETHYLDISILOXANE | Inhalation | heart   endocrine system   immune system   nervous system   respiratory system                                                                                                                             | All data are negative                                                        | Rat                     | NOAEL 33 mg/l                    | 13 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. Dispose of waste product in a permitted industrial waste 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):** D001 (Ignitable)

## 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.

### 311/312 Hazard Categories:

Fire Hazard - Yes      Pressure Hazard - No      Reactivity Hazard - No      Immediate Hazard - No      Delayed Hazard - No

### 15.2. State Regulations

Contact 3M for more information.

### 15.3. Chemical Inventories

This material contains one or more substances not listed on the TSCA Inventory. Commercial use of this material is regulated by the FDA.

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:** 1   **Flammability:** 3   **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.

**Document Group:** 34-6746-1  
**Issue Date:** 11/29/16

**Version Number:** 2.00  
**Supersedes Date:** 07/15/16

DISCLAIMER: The information in this Safety Data Sheet (SDS) is believed to be correct as of the date issued. 3M MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR COURSE OF PERFORMANCE OR USAGE OF TRADE. User is responsible for determining whether the 3M product is fit for a particular purpose and suitable for user's method of use or application. Given the variety of factors that can affect the use and application of a 3M product, some of which are uniquely within the user's knowledge and control, it is essential that the user evaluate the 3M product to determine whether it is fit for a particular purpose and suitable for user's method of use or application.

3M provides information in electronic form as a service to its customers. Due to the remote possibility that electronic transfer may have resulted in errors, omissions or alterations in this information, 3M makes no representations as to its completeness or accuracy. In addition, information obtained from a database may not be as current as the information in the SDS available directly from 3M

**3M USA SDSs are available at [www.3M.com](http://www.3M.com)**