

RTV 160

# SAFETY DATA SHEET

## 1. Identification

**Product identifier:** RTV 160

**Other means of identification**

**Synonyms:** POLYDIMETHYLSILOXANE SEALANT

**Recommended use and restriction on use**

**Recommended use:** Silicone Elastomer

**Restrictions on use:** Not known.

**Manufacturer** : Momentive Performance Materials LLC  
260 Hudson River Road  
Waterford NY 12188

**Distributor Information** : DC Products Pty Limited  
Unit 117/45 Gilby Road  
Mount Waverley 3149  
Australia

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**Emergency telephone number** : +61 418 529 118

## 2. Hazard(s) identification

**Hazard Classification**

**Physical Hazards**

Flammable liquids Category 4

**Label Elements**

**Hazard Symbol:** No symbol

**Signal Word:** Warning

**Hazard Statement:** H227; Combustible liquid.

**Precautionary Statements**

**Prevention:** Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wear protective gloves/protective clothing/eye

**RTV 160**

protection/face protection.

**Response :** In case of fire: Use alcohol resistant foam for extinction.

**Storage:** Store in a well-ventilated place. Keep cool.

**Disposal:** Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

**Other hazards which do not result in GHS classification:** None.

**Substance(s) formed under the conditions of use:** Generates methanol during cure.

**3. Composition/information on ingredients**

**Mixtures**

| Chemical Identity                          | CAS number | Content in percent (%)* | Notes   |
|--|------------|-------------------------|---|
| (1) TITANIUM DIOXIDE                       | 13463-67-7 | 1 - <5%                 | # This substance has workplace exposure limit(s). |
| Tris(3(trimethoxysilyl)propyl)isocyanurate | 26115-70-8 | 1 - <5%                 | No data available.                                |

\* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

(1) The respirable particle(s) listed above are inextricably bound within the polymer matrix, and therefore does not present an inhalation hazard during normal use of this product. Tooling or machining of the cured product (sanding, cutting, milling) may release hazardous, respirable substances.

**4. First-aid measures**

**Ingestion:** If swallowed, do NOT induce vomiting. Give a glass of water.

**Inhalation:** If inhaled, remove to fresh air. If not breathing give artificial respiration using a barrier device. If breathing is difficult give oxygen. Get medical attention.

**Skin Contact:** To clean from skin, remove completely with a dry cloth or paper towel, before washing with detergent and water. If skin irritation occurs: Get medical advice/attention.

**Eye contact:** In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

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**RTV 160**

**Most important symptoms/effects, acute and delayed**

**Symptoms:** No data available.

**Hazards:** No data available.

**Indication of immediate medical attention and special treatment needed**

**Treatment:** Treatment is symptomatic and supportive.

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**5. Fire-fighting measures**

**General Fire Hazards:** Use standard firefighting procedures and consider the hazards of other involved materials. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply.

**Suitable (and unsuitable) extinguishing media**

**Suitable extinguishing media:** All standard extinguishing agents are suitable.

**Unsuitable extinguishing media:** Do not use water jet as an extinguisher, as this will spread the fire.

**Specific hazards arising from the chemical:** In case of fire, carbon monoxide and carbon dioxide may be formed. Acute overexposure to the products of combustion may result in irritation of the respiratory tract. Reacts with water liberating small amounts of methanol. This material is reactive with water, but the reaction will not significantly increase the fire severity.

**Special protective equipment and precautions for firefighters**

**Special fire fighting procedures:** No data available.

**Special protective equipment for fire-fighters:** Firefighters must wear NIOSH/MSHA approved positive pressure self-contained breathing apparatus with full face mask and full protective clothing.

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**6. Accidental release measures**

**Personal precautions, protective equipment and emergency procedures:** Keep container closed. Avoid contact with skin and eyes. Remove contact lenses before using sealant. Do not handle lenses until all sealant has been cleaned from the finger and hands. Product releases methanol during application and curing. Keep out of reach of children. May generate formaldehyde at temperatures greater than 150 C(300 F). See Section 8 of the SDS for Personal Protective Equipment.

**RTV 160**

**Methods and material for containment and cleaning up:** Wipe, scrape or soak up in an inert material and put in a container for disposal. Wear proper protective equipment as specified in the protective equipment section.

**7. Handling and storage**

**Precautions for safe handling:** Sensitivity to static discharge is not expected.  
**Conditions for safe storage, including any incompatibilities:** Keep away from heat, sparks and open flame. Keep container tightly closed.

**8. Exposure controls/personal protection**

**Control Parameters**

**Occupational Exposure Limits**

| Chemical Identity                  | Type | Exposure Limit Values | Source  |
|------------------------------------|------|-----------------------|---|
| (1) TITANIUM DIOXIDE               | TWA  | 10 mg/m3              | US. ACGIH Threshold Limit Values (03 2015)                                  |
| (1) TITANIUM DIOXIDE - Total dust. | PEL  | 15 mg/m3              | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006) |
|                                    | TWA  | 10 mg/m3              | US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)                              |

This product contains one or more substances with an occupational exposure limit. However, the respirable particle(s) of this/these substance(s) are inextricably bound within the polymer matrix. Therefore, we do not expect an exposure to this/these substance(s) during normal use of this product. Tooling or machining of the cured product (sanding, cutting, milling) may release hazardous, respirable substances.

**Appropriate Engineering Controls** Eye wash facilities and emergency shower must be available when handling this product. Ventilation and other forms of engineering controls are preferred for controlling exposures. Respiratory protection may be needed for non-routine or emergency situations.

**Individual protection measures, such as personal protective equipment**

- General information:** Wear suitable gloves and eye/face protection.
- Eye/face protection:** Safety glasses with side shields
- Skin Protection**
- Hand Protection:** Rubber gloves are recommended.
- Other:** Wear suitable protective clothing and eye/face protection.

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**RTV 160**

**Respiratory Protection:** If exposure limits are exceeded or respiratory irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Supplied air respirators may be required for non-routine or emergency situations. Respiratory protection must be provided in accordance with OSHA regulations (see 29CFR 1910.134).

**Hygiene measures:** Provide adequate ventilation. Observe good industrial hygiene practices. Avoid contact with eyes, skin, and clothing. Wash hands after handling. When using do not eat, drink or smoke.

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**9. Physical and chemical properties**

**Appearance**

|  |                             |
|--|-----------------------------|
| <b>Physical state:</b>                                       | liquid                      |
| <b>Form:</b>   | Paste                       |
| <b>Color:</b>  | White                       |
| <b>Odor:</b>   | Alcohol                     |
| <b>Odor threshold:</b>                                       | No data available.          |
| <b>pH:</b>   | Not applicable              |
| <b>Melting point/freezing point:</b>                         | No data available.          |
| <b>Initial boiling point and boiling range :</b>             | > 93 °C                     |
| <b>Flash Point:</b>  | ca. 75 °C (Closed Cup)      |
| <b>Evaporation rate:</b>                                     | No data available.          |
| <b>Flammability (solid, gas):</b>                            | No data available.          |
| <b>Upper/lower limit on flammability or explosive limits</b> |                             |
| <b>Flammability limit - upper (%):</b>                       | No data available.          |
| <b>Flammability limit - lower (%):</b>                       | No data available.          |
| <b>Explosive limit - upper (%):</b>                          | No data available.          |
| <b>Explosive limit - lower (%):</b>                          | No data available.          |
| <b>Heat of combustion:</b>                                   | No data available.          |
| <b>Vapor pressure:</b>                                       | No data available.          |
| <b>Vapor density:</b>  | No data available.          |
| <b>Density:</b>  | ca. 1.040 g/cm <sup>3</sup> |
| <b>Relative density:</b>                                     | 1.04                        |
| <b>Solubility(ies)</b>                                       |                             |
| <b>Solubility in water:</b>                                  | Insoluble                   |
| <b>Solubility (other):</b>                                   | Soluble in toluene          |
| <b>Partition coefficient (n-octanol/water) Log Pow:</b>      | Not determined.             |
| <b>Auto-ignition temperature :</b>                           | No data available.          |
| <b>Decomposition temperature:</b>                            | No data available.          |

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**RTV 160**

**SADT:** No data available.  
**Viscosity, dynamic:** No data available.  
**Viscosity, kinematic:** > 20.5 mm<sup>2</sup>/s (40 °C)  
**VOC:** 40 g/l ;

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**10. Stability and reactivity**

**Reactivity:** No dangerous reaction if used as recommended.

**Chemical Stability:** Material is stable under normal conditions.  
**Possibility of hazardous reactions:** Hazardous polymerisation does not occur. Avoid exposure to: Water

**Conditions to avoid:** Reacts with water liberating small amounts of methanol.

**Incompatible Materials:** Water. Strong Acids, Strong Bases  
**Hazardous Decomposition Products:** Carbon dioxide Silicon dioxide. Formaldehyde. Measurements at temperatures above 150°C in presence of air (oxygen) have shown that small amounts of formaldehyde are formed due to oxidative degradation.

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**11. Toxicological information**

**Information on likely routes of exposure**

**Ingestion:** No data available.  
**Inhalation:** No data available.  
**Skin Contact:** No data available.  
**Eye contact:** No data available.

**Symptoms related to the physical, chemical and toxicological characteristics**

**Ingestion:** No data available.  
**Inhalation:** No data available.  
**Skin Contact:** No data available.  
**Eye contact:** No data available.

**Information on toxicological effects**

**Acute toxicity (list all possible routes of exposure)**

**Oral Product:** Not classified for acute toxicity based on available data.

**Dermal**

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**RTV 160**

**Product:** Not classified for acute toxicity based on available data.

**Inhalation Product:** Not classified for acute toxicity based on available data.

**Repeated dose toxicity Product:** No data available.

**Skin Corrosion/Irritation Product:** No data available.

**Serious Eye Damage/Eye Irritation Product:** No data available.

**Respiratory or Skin Sensitization Product:** No data available.

**Carcinogenicity Product:** No data available.

**IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:**

No carcinogenic components identified **US. National Toxicology Program (NTP) Report on Carcinogens:**  
No carcinogenic components identified

**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):**  
No carcinogenic components identified

**Germ Cell Mutagenicity**

**In vitro Product:** No data available.

**In vivo Product:** No data available.

**Reproductive toxicity Product:** No data available.

**Specific Target Organ Toxicity - Single Exposure Product:** No data available.

**Specific Target Organ Toxicity - Repeated Exposure Product:** No data available.

**Aspiration Hazard Product:** No data available.

**Other effects:** Methanol is formed during processing.

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RTV 160

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**12. Ecological information**

**Ecotoxicity:**

**Acute hazards to the aquatic environment:**

**Fish**

**Product:** No data available.

**Aquatic Invertebrates**

**Product:** No data available.

**Chronic hazards to the aquatic environment:**

**Fish**

**Product:** No data available.

**Aquatic Invertebrates**

**Product:** No data available.

**Toxicity to Aquatic Plants**

**Product:** No data available.

**Persistence and Degradability**

**Biodegradation**

**Product:** No data available.

**BOD/COD Ratio**

**Product:** No data available.

**Bioaccumulative potential**

**Bioconcentration Factor (BCF)**

**Product:** No data available.

**Partition Coefficient n-octanol / water (log Kow)**

**Product:** Log Kow: Not determined.

**Mobility in soil:** No data available.

**Known or predicted distribution to environmental compartments**

(1) TITANIUM DIOXIDE No data available.

Tris(3(trimethoxysilyl)propyl

)isocyanurate

**Other adverse effects:** No data available.



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**RTV 160**

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**13. Disposal considerations**

**General information:** The generation of waste should be avoided or minimized wherever possible. Do not discharge into drains, water courses or onto the ground. See Section 8 for information on appropriate personal protective equipment.

**Disposal instructions:** Disposal should be made in accordance with federal, state and local regulations.

**Contaminated Packaging:** Dispose of as unused product.

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**14. Transport information**

**DOT**

|                            |  |
|----------------------------|--|
| UN Number:                 | NA 1993  |
| UN Proper Shipping Name:   | Combustible liquid, n.o.s.(METHYLTRIME THOXYS ILANE) |
| Transport Hazard Class(es) |  |
| Class:                     | CBL  |
| Label(s):                  | NONE   |
| Packing Group:             | III  |
| Marine Pollutant:          | No   |

**IMDG**

Not regulated.

**IATA**

Not regulated.

**Special precautions for user:** This product is Combustible as defined by the US Department of Transportation (DOT). It is regulated for transport in the US in container > 119 gallons. The product is not regulated for transport by the IATA, ADR/RID, ADNR or the IMDG regulations.

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**15. Regulatory information**

**US Federal Regulations**

**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

None present or none present in regulated quantities.

**CERCLA Hazardous Substance List (40 CFR 302.4):**

None present or none present in regulated quantities.

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**Hazard categories**

No SARA Hazards

**RTV 160**

**SARA 302 Extremely Hazardous Substance**

None present or none present in regulated quantities.

**SARA 304 Emergency Release Notification**

None present or none present in regulated quantities.

**SARA 311/312 Hazardous Chemical**

| <u>Chemical Identity</u>                   | <u>Threshold Planning Quantity</u> |
|--|------------------------------------|
| (1) TITANIUM DIOXIDE                       | 10000 lbs                          |
| Tris(3(trimethoxysilyl)propyl)isocyanurate | 10000 lbs                          |

**SARA 313 (TRI Reporting)**

None present or none present in regulated quantities.

**Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)**

None present or none present in regulated quantities.

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):**

None present or none present in regulated quantities.

**US State Regulations**

**US. California Proposition 65**

This product contains chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm.

(1) TITANIUM DIOXIDE                      Carcinogenic.

**US. New Jersey Worker and Community Right-to-Know Act**

Chemical Identity

Siloxanes and Silicones, di-Me hydroxy terminated  
Dimethylpolysiloxane  
Silanamine, 1,1,1-trimethyl-N-(trimethylsilyl) -, reaction products with  
ammonia, octamethylcyclotetrasiloxane and silica  
SILOXANES AND SILICONES, DI-ME  
Methyltrimethoxysilane  
(1) TITANIUM DIOXIDE

**US. Massachusetts RTK - Substance List**

Chemical Identity

(1) TITANIUM DIOXIDE

**US. Pennsylvania RTK - Hazardous Substances**

Chemical Identity

(1) TITANIUM DIOXIDE

**US. Rhode Island RTK**

No ingredient regulated by RI Right-to-Know Law present.

**RTV 160**

**Inventory Status:**

|  |                      |                |
|--|----------------------|----------------|
| Australia AICS:                                  | y (positive listing) | Remarks: None. |
| Canada DSL Inventory List:                       | y (positive listing) | Remarks: None. |
| EU EINECS List:                                  | y (positive listing) | Remarks: None. |
| Japan (ENCS) List:                               | y (positive listing) | Remarks: None. |
| China Inventory of Existing Chemical Substances: | y (positive listing) | Remarks: None. |
| Korea Existing Chemicals Inv. (KECI):            | y (positive listing) | Remarks: None. |
| Canada NDSL Inventory:                           | n (Negative listing) | Remarks: None. |
| Philippines PICCS:                               | y (positive listing) | Remarks: None. |
| US TSCA Inventory:                               | y (positive listing) | Remarks: None. |
| New Zealand Inventory of Chemicals:              | y (positive listing) | Remarks: None. |
| Taiwan. Taiwan inventory (CSNN):                 | y (positive listing) | Remarks: None. |

**16. Other information, including date of preparation or last revision**

**HMIS Hazard ID**

|                            |  |          |
|----------------------------|--|----------|
| <b>Health</b>              |  | <b>0</b> |
| <b>Flammability</b>        |  | <b>2</b> |
| <b>Physical Hazards</b>    |  | <b>1</b> |
| <b>PERSONAL PROTECTION</b> |  |          |

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible; \*Chronic health effect

**Issue Date:** 04/23/2018

**Revision Date:** No data available.

**Version #:** 3.0

**Further Information:** Contains octamethylcyclotetrasiloxane which may cause reproductive effects based on animal data.

**RTV 160**

**Disclaimer:**

**Notice to reader**

Unless otherwise specified in section 1, Momentive products are intended for use in the manufacture and/or formulation of products and are not intended for direct consumer use. These products are not intended for long-lasting (> 30 days) implantation, injection or direct ingestion into the human body, nor for use in the manufacture of multiple use contraceptives.

Contains octamethylcyclotetrasiloxane which may cause reproductive effects based on animal data.

Keep out of the reach of children.

**Further Information**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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