# SAFETY DATA SHEET

## 1. Identification

**Product identifier:** RTV6708

**Other means of identification**
**Synonyms:** POLYSILOXANE SEALANT (translucent)

**Recommended use and restriction on use**
**Recommended use:** Silicone Elastomer
**Restrictions on use:** Not known.

| | | |
|---|---|---|
| **Manufacturer/Importer/Distributor Information** | : | Momentive Performance Materials - Daytona<br>703 South Street<br>New Smyrna Beach FL 32168 |
| **Contact person** | : | commercial.services@momentive.com |
| **Telephone** | : | General information<br>+1-800-295-2392 |
| **Emergency telephone number** | | |
| **Supplier** | : | CHEMTREC<br>1-800-424-9300 |

## 2. Hazard(s) identification

**Hazard Classification**

**Health Hazards**

| | |
|---|---|
| Skin sensitizer | Category 1 |
| Toxic to reproduction | Category 1B |

**Unknown toxicity - Health**

| | |
|---|---|
| Acute toxicity, oral | 0 % |
| Acute toxicity, dermal | 0 % |
| Acute toxicity, inhalation, vapor | 0 % |
| Acute toxicity, inhalation, dust or mist | 0 % |

**Label Elements**

**Hazard Symbol:**

**Signal Word:** Danger

**Hazard Statement:** H317; May cause an allergic skin reaction.
H360; May damage fertility or the unborn child.

**Precautionary Statements**

**Prevention:** Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing dust/fume/gas/mist. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves/protective clothing.

**Response:** IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. IF exposed or concerned: Get medical advice/attention. Specific treatment (see this label). Wash contaminated clothing before reuse.

**Storage:** Store locked up.

**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 |
|---|---|---|---|
| Hexamethyldisilazane | 999-97-3 | 1 - <5% | No data available. |
| Octamethylcyclotetrasiloxane | 556-67-2 | 1 - <3% | No data available. |
| DIBUTYL TIN BIS ACETYLACETONATE | 22673-19-4 | 0.1 - <0.3% | # This substance has workplace exposure limit(s). |

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

## 4. First-aid measures

**Ingestion:** If swallowed, do NOT induce vomiting. Give a glass of water. Do not give victim anything to drink if he is unconscious. Get medical attention if any discomfort continues.

**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.

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

**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.

## 5. Fire-fighting measures

**General Fire Hazards:** Use standard firefighting procedures and consider the hazards of other involved materials. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

**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. Oxides of silicon. Acute overexposure to the products of combustion may result in irritation of the respiratory tract. Measurements at temperatures above 150°C in presence of air (oxygen) have shown that small amounts of formaldehyde are formed due to oxidative degradation.

**Special protective equipment and precautions for firefighters**

**Special fire fighting procedures:** Move container from fire area if it can be done without risk. Cool fire-endangered containers with water.

**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.

## 6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures:** Avoid contact with skin and eyes. Use only in well-ventilated areas. Remove contact lenses before using sealant. Do not handle lenses until all sealant has been cleaned from the finger and hands. Keep out of reach of children. See Section 8 of the SDS for Personal Protective Equipment.

**Methods and material for containment and cleaning up:** Wipe, scrape or soak up in an inert material and put in a container for disposal. Wash walking surfaces with detergent and water to reduce slipping hazard. Wear proper protective equipment as specified in the protective equipment section.

## 7. Handling and storage

**Precautions for safe handling:** Methanol is formed during processing. Ammonia is formed during processing. Wear appropriate personal protective equipment. Sensitivity to static discharge is not expected.

**Conditions for safe storage, including any incompatibilities:** Keep container closed. Use original container or packaging of similar material of construction

## 8. Exposure controls/personal protection

**Control Parameters**

**Occupational Exposure Limits**

| Chemical Identity | Type | Exposure Limit Values | Source |
|---|---|---|---|
| DIBUTYL TIN BIS ACETYLACETONATE - as Sn | STEL | 0.2 mg/m3 | US. ACGIH Threshold Limit Values (03 2015) |
| | TWA | 0.1 mg/m3 | US. ACGIH Threshold Limit Values (03 2015) |
| | REL | 0.1 mg/m3 | US. NIOSH: Pocket Guide to Chemical Hazards (2010) |
| | PEL | 0.1 mg/m3 | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006) |
| | TWA | 0.1 mg/m3 | US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989) |
| Octamethylcyclotetrasiloxane | TWA | 5 ppm | |

**Appropriate Engineering Controls** Eye wash facilities and emergency shower must be available when handling this product.

**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:** Cloth gloves.

**Other:** Wear suitable protective clothing and eye/face protection.

**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:** Avoid contact with eyes, skin, and clothing. Wash hands after handling. When using do not eat or drink.

## 9. Physical and chemical properties

**Appearance**

| | |
|---|---|
| **Physical state:** | solid |
| **Form:** | Paste |
| **Color:** | Colorless |
| **Odor:** | Ammonia. |
| **Odor threshold:** | No data available. |
| **pH:** | No data available. |
| **Melting point/freezing point:** | not applicable |
| **Initial boiling point and boiling range:** | not applicable |
| **Flash Point:** | ca. 110 °C (ASTM D 93) |
| **Evaporation rate:** | < 1 |
| **Flammability (solid, gas):** | No data available. |
| **Upper/lower limit on flammability or explosive limits** | |
| **Flammability limit - upper (%):** | No data available. |
| **Flammability limit - lower (%):** | No data available. |
| **Explosive limit - upper (%):** | No data available. |
| **Explosive limit - lower (%):** | No data available. |
| **Heat of combustion:** | No data available. |
| **Vapor pressure:** | No data available. |
| **Vapor density:** | No data available. |
| **Density:** | ca. 1.035 g/cm3 |
| **Relative density:** | ca. 1.035 |
| **Solubility(ies)** | |
| **Solubility in water:** | Insoluble |
| **Solubility (other):** | PARTIAL IN TOLUENE |

| | |
|---|---|
| **Partition coefficient (n-octanol/water) Log Pow:** | No data available. |
| **Auto-ignition temperature:** | No data available. |
| **Decomposition temperature:** | No data available. |
| **SADT:** | No data available. |
| **Viscosity, dynamic:** | No data available. |
| **Viscosity, kinematic:** | > 20.5 mm2/s (40 °C) |
| **VOC:** | 33 g/l ; |

## 10. Stability and reactivity

| | |
|---|---|
| **Reactivity:** | No dangerous reaction if used as recommended. |
| **Chemical Stability:** | Material is stable under normal conditions. |
| **Possibility of hazardous reactions:** | Under normal conditions of storage and use, hazardous polymerization will not occur. |
| **Conditions to avoid:** | Moisture. |
| **Incompatible Materials:** | None known. |
| **Hazardous Decomposition Products:** | Carbon dioxide Formaldehyde. Silicon dioxide. Nitrogen Oxides Ammonia. Measurements at temperatures above 150°C in presence of air (oxygen) have shown that small amounts of formaldehyde are formed due to oxidative degradation. |

## 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. |
| **Specified substance(s):** | |
| Hexamethyldisilazane | LD 50 (Rat): 870 mg/kg |
| Octamethylcyclotetrasiloxane | LD 50 (Rat): 4,800 mg/kg |

**Dermal**

| | |
|---|---|
| **Product:** | Not classified for acute toxicity based on available data. |
| **Specified substance(s):** | |
| Octamethylcyclotetrasiloxane | LD 50 (Rat): > 2,400 mg/kg |

**Inhalation**

| | |
|---|---|
| **Product:** | Not classified for acute toxicity based on available data. |
| **Specified substance(s):** | |
| Octamethylcyclotetrasiloxane | LC50 (Rat): 36 mg/l |

**Repeated dose toxicity**

| | |
|---|---|
| **Product:** | No data available. |

**Skin Corrosion/Irritation**

| | |
|---|---|
| **Product:** | No data available. |
| **Specified substance(s):** | |
| Octamethylcyclotetrasiloxane | OECD-Guideline 404 (Acute Dermal Irritation/Corrosion) (Rat): No skin irritation |

**Serious Eye Damage/Eye Irritation**

| | |
|---|---|
| **Product:** | No data available. |

**Respiratory or Skin Sensitization**

| | |
|---|---|
| **Product:** | Bühler-Patch-Test skin sensitisation on guinea pigs, OECD Test Guideline 406 (Guinea Pig): negative Test results are based on analogy with a similar material. |

**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. |
| **Specified substance(s):** | |
| Octamethylcyclotetrasiloxane | Ames-Test (OECD-Guideline 471 (Genetic Toxicology: Salmonella typhimurium, Reverse Mutation Assay)): negative (not mutagenic)<br>Mouse Lymphoma Assay (OECD Guidline 476): negative (not mutagenic) |

**In vivo**

| | |
|---|---|
| **Product:** | No data available. |
| **Specified substance(s):** | |
| Octamethylcyclotetrasiloxane | Chromosomal aberration (OECD-Guideline 474 (Genetic Toxicology: Micronucleus Test)) Inhalation (Rat, male and female): negative |

**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:** Ammonia released during curing. Contains dibutyltin compound(s) - May impair fertility. May cause harm to unborn child. Octamethylcyclotetrasiloxane (D4) Ingestion: Rodents given large doses via oral gavage of Octamethylcyclotetrasiloxane (1600mg/kg/day,14 days), developed increased liver weights relative to unexposed control animals due to hepatocellular hyperplasia (increased number of liver cells which appear normal) as well as hypertrophy (increased cell size). Inhalation: In inhalation studies, laboratory rodents exposed to Octamethylcyclotetrasiloxane (300 ppm five days/week, 90 days) developed increased liver weights in female animals relative to unexposed control animals. When the exposure was stopped, liver weights returned to normal. Microscopic examination of the liver cells did not show any evidence of pathology. This response in rats, which does not affect the animal's health, is well-documented and widely recognized. It is related to an increase of liver enzymes that metabolize and eliminate a material from the body. The increased liver weight reverses even while the D4 exposure continues. The finding is not adverse, but is considered a natural adaptive change in rats, and does not represent a hazard to humans. Inhalation studies utilizing laboratory rabbits and guinea pigs showed no effects on liver weights. Inhalation exposures typical of industrial usage (5-10 ppm) showed no toxic effects in rodents. Range finding reproductive studies were conducted (whole body inhalation, 70 days prior to mating, through mating, gestation and lactation), with D4. Rats were exposed to 70 and 700 ppm. In the 700 ppm group, there was a statistically significant reduction in mean litter size and in implantation sites. No D4 related clinical signs were observed in the pups and no exposure related pathological findings were found. A two-year, combined chronic/carcinogenicity study, during which rats were exposed to D4 by inhalation, data showed a statistically significant increase in a benign uterine tumor in female rats exposed at the highest level--a level much higher than the low levels that consumers or workers may encounter. An expert panel of independent scientists who have reviewed the results of this research concur that the finding seen in the two-year study occurred through a biological pathway that is specific to the rat and is not relevant to humans. Therefore, this observed effect does not indicate a potential health hazard to humans. In developmental toxicity studies, rats and rabbits were exposed to D4 at concentrations up to 700 ppm and 500 ppm, respectively. No teratogenic effects (birth defects) were observed in either study.

## 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.

**Specified substance(s):**

| | |
|---|---|
| Octamethylcyclotetrasiloxane | 3.7 % (29 d, 310 Ready Biodegradability - $CO_2$ in Sealed Vessels (Headspace Test)) Not readily biodegradable. |

**BOD/COD Ratio**
**Product:** No data available.

**Bioaccumulative potential**
**Bioconcentration Factor (BCF)**
**Product:** No data available.

**Specified substance(s):**

| | |
|---|---|
| Octamethylcyclotetrasiloxane | Fathead Minnow, Bioconcentration Factor (BCF): 12.40 |

**Partition Coefficient n-octanol / water (log Kow)**
**Product:** No data available.

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

**Known or predicted distribution to environmental compartments**

| | |
|---|---|
| Hexamethyldisilazane | No data available. |
| Octamethylcyclotetrasiloxane | No data available. |
| DIBUTYL TIN BIS ACETYLACETONATE | No data available. |

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

## 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.

## 14. Transport information

**DOT**
Not regulated.

**IMDG**
Not regulated.

**IATA**
Not regulated.

**Special precautions for user:** This product is not regarded as dangerous goods according to the national and international regulations on the transport of dangerous goods.

## 15. Regulatory information

**US Federal Regulations**

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

| Chemical Identity | Reportable quantity |
|---|---|
| Octamethylcyclotetrasiloxane | De minimis concentration: TSCA Section: 4: 1.0%<br>One-Time Export Notification only. |

**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**
Immediate (Acute) Health Hazards
Delayed (Chronic) Health Hazard

**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**

| Chemical Identity | Threshold Planning Quantity |
|---|---|
| Hexamethyldisilazane | 10000 lbs |
| Octamethylcyclotetrasiloxane | 10000 lbs |
| DIBUTYL TIN BIS ACETYLACETONATE | 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.

| | |
|---|---|
| Methanol | Maximum Allowable Dose Level (MADL): 47000 µg/day. Developmental toxin. |

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

**Chemical Identity**
METHYLPOLYSILOXANE
Silane, dichlorodimethyl-, reaction products with silica, 68611-44-9
SILOXANES AND SILICONES, DI-ME
Treated Fumed Silica
Siloxanes and Silicones, di-Me, polymers with Me silsesquioxanes, hydroxy-terminated
Octamethylcyclotetrasiloxane

**US. Massachusetts RTK - Substance List**
No ingredient regulated by MA Right-to-Know Law present.

**US. Pennsylvania RTK - Hazardous Substances**
No ingredient regulated by PA Right-to-Know Law present.

**US. Rhode Island RTK**
No ingredient regulated by RI Right-to-Know Law present.

**Inventory Status:**

| | | |
|---|---|---|
| Australia AICS: | y (positive listing) | Remarks: None. |
| EU EINECS List: | y (positive listing) | Remarks: None. |
| Japan (ENCS) List: | n (Negative 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 DSL Inventory List: | 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. |
| Taiwan. Taiwan inventory (CSNN): | y (positive listing) | Remarks: None. |

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

**HMIS Hazard ID**

| | | |
|---|---|---|
| **Health** | * | 2 |
| **Flammability** | | 1 |
| **Physical Hazards** | | 1 |
| **PERSONAL PROTECTION** | | |

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

**Issue Date:** 10/25/2017

**Revision Date:** No data available.

**Version #:** 2.0

**Further Information:** No data available.

**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.
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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