

# SAFETY DATA SHEET

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Regulation (EU) No. 2015/830

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

Product name: RTV5249

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Silicone Elastomer

Uses advised against: Not known.

### 1.3 Details of the supplier of the safety data sheet

**Manufacturer/Importer/Distributor Information** : Momentive Performance Materials GmbH  
Chempark Leverkusen Gebaeude V7  
DE - 51368 Leverkusen  
Germany

Supplied by:  
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## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

The product has not been classified as hazardous according to the legislation in force.

**Classification according to Regulation (EC) No 1272/2008 as amended.**

Not classified

The product is not classified for chronic aquatic toxicity, for further details see section 16

**2.2 Label Elements** : Not applicable  
**Additional Information:** No data available.

**2.3 Other hazards** : No data available.

## SECTION 3: Composition/information on ingredients

**Chemical nature:** Mixture of polydimethylsiloxanes, fillers and cross-linkers.

### 3.2 Mixtures

**General information:** No data available.

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Chemical name	Concentration	CAS-No.	EC No.	REACH Registration No.	M-Factor:	Notes
Octamethylcyclotetrasiloxane	0,01 - <0,1%	556-67-2	209-136-7	01-2119529238-36-XXXX	Aquatic Toxicity (Chronic): 10	PBT, vPvB

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

# # This substance has workplace exposure limit(s).

PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.

**Classification**

Chemical name	Classification	Notes
Octamethylcyclotetrasiloxane	Flam. Liq.: 3: H226; Repr.: 2: H361f; Aquatic Chronic: 1: H410;	No data available.

CLP: Regulation No. 1272/2008.

**SECTION 4: First aid measures**

**4.1 Description of first aid measures**

<b>Inhalation:</b>	Move into fresh air and keep at rest.
<b>Eye contact:</b>	Rinse the eye with water immediately. If eye irritation persists: Get medical advice/attention.
<b>Skin Contact:</b>	After contact with skin, remove product mechanically. Wash area with soap and water. Get medical attention.
<b>Ingestion:</b>	Rinse mouth. Do NOT induce vomiting. Consult a physician for specific advice.

**4.2 Most important symptoms and effects, both acute and delayed:** No data available.

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

<b>Hazards:</b>	No data available.
<b>Treatment:</b>	No data available.

**SECTION 5: Firefighting 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.

**5.1 Extinguishing media**  
**Suitable extinguishing media:**

All standard extinguishing agents are suitable.

**Unsuitable extinguishing media:**

Avoid water in straight hose stream; will scatter and spread fire.

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**5.2 Special hazards arising from the substance or mixture:** In case of fire, carbon monoxide and carbon dioxide may be formed. Reacts with water liberating small amounts of methanol.

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

**SECTION 6: Accidental release measures**

**6.1 Personal precautions, protective equipment and emergency procedures:** Provide adequate ventilation. Use personal protective equipment.

**6.2 Environmental Precautions:** Do not allow runoff to sewer, waterway or ground.

**6.3 Methods and material for containment and cleaning up:** Use mechanical handling equipment. Shovel up and place in a container for salvage or disposal.

**6.4 Reference to other sections:** No data available.

**SECTION 7: Handling and storage:**

**7.1 Precautions for safe handling:** Methanol is formed during processing. Wear appropriate personal protective equipment.

**Storage conditions:** Keep away from heat, sparks and open flame. Keep container tightly closed in a cool, well-ventilated place.

**7.2 Conditions for safe storage, including any incompatibilities:** Keep container tightly closed in a cool, well-ventilated place.

**Storage Stability:** Material is stable under normal conditions.

**7.3 Specific end use(s):** No data available.

**SECTION 8: Exposure controls/personal protection**

**8.1 Control Parameters  
Occupational Exposure Limits**

Chemical name	Type	Exposure Limit Values	Source
CALCIUM CARBONATE - Inhalable dust.	TWA	10 mg/m3	UK. EH40 Workplace Exposure Limits (WELs), as amended (12 2011)
CALCIUM CARBONATE - Respirable dust.	TWA	4 mg/m3	UK. EH40 Workplace Exposure Limits (WELs), as amended (12 2011)
CALCIUM CARBONATE - Respirable.	TWA	4 mg/m3	UK. EH40 Workplace Exposure Limits (WELs), as amended (12 2011)
CALCIUM CARBONATE - Inhalable	TWA	10 mg/m3	UK. EH40 Workplace Exposure Limits (WELs), as amended (12 2011)

**Biological Limit Values**

None.

**8.2 Exposure controls  
Appropriate Engineering Controls:** No data available.

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

<b>General information:</b>	Wear suitable gloves and eye/face protection.
<b>Eye/face protection:</b>	Safety glasses with side-shields conforming to EN166
<b>Skin protection</b>	
<b>Hand Protection:</b>	Advice: There is no risk to health due to contact with the chemical. Use hand protection to prevent mechanically injuries.
<b>Other:</b>	Chemical resistant clothing Wear rubber boots.
<b>Respiratory Protection:</b>	In case of inadequate ventilation use suitable respirator.
<b>Hygiene measures:</b>	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.
<b>Environmental exposure controls:</b>	No data available.

**SECTION 9: Physical and chemical properties**

**9.1 Information on basic physical and chemical properties**

**Appearance**

<b>Physical state:</b>	solid
<b>Form:</b>	Paste
<b>Color:</b>	Gray
<b>Odor:</b>	Sweet
<b>Odor Threshold:</b>	No data available.
<b>pH:</b>	No data available.
<b>Melting Point:</b>	No data available.
<b>Boiling Point:</b>	Not applicable
<b>Flash Point:</b>	> 93,3 °C (estimated)
<b>Evaporation Rate:</b>	< 1
<b>Flammability (solid, gas):</b>	No data available.
<b>Flammability Limit - Upper (%):</b>	No data available.
<b>Flammability Limit - Lower (%):</b>	No data available.
<b>Vapor pressure:</b>	No data available.
<b>Relative vapor density:</b>	Negligible
<b>Density:</b>	ca. 1,5 g/cm <sup>3</sup>
<b>Relative density:</b>	ca. 1,52
<b>Solubility(ies)</b>	
<b>Solubility in Water:</b>	Insoluble
<b>Solubility (other):</b>	No data available.
<b>Partition coefficient (n-octanol/water) Log Pow:</b>	No data available.

<b>Autoignition Temperature:</b>	No data available.
<b>Decomposition Temperature:</b>	No decomposition if stored and applied as directed.
<b>SADT:</b>	No data available.
<b>Viscosity, dynamic:</b>	No data available.
<b>Viscosity, kinematic:</b>	> 20,5 mm <sup>2</sup> /s (40 °C)

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**Explosive properties:**

No data available.

**Oxidizing properties:**

No data available.

**9.2 Other information**

No data available.

**SECTION 10: Stability and reactivity**

**10.1 Reactivity:**

Reacts with water liberating small amounts of methanol.

**10.2 Chemical Stability:**

Material is stable under normal conditions.

**10.3 Possibility of hazardous reactions:**

Under normal conditions of storage and use, hazardous polymerization will not occur.

**10.4 Conditions to avoid:**

Keep away from moisture. Keep away from heat, sparks and open flame.

**10.5 Incompatible Materials:**

Strong Acids, Strong Bases

**10.6 Hazardous Decomposition Products:**

Carbon oxides Oxides of silicon. Measurements at temperatures above 150°C in presence of air (oxygen) have shown that small amounts of formaldehyde are formed due to oxidative degradation.

**SECTION 11: Toxicological information**

**General information:**

Our Experience shows that our Silicone Elastomer products can be handled without risk to health if used properly and if the usual precautions for industrial hygiene are observed.

**Information on likely routes of exposure**

**Inhalation:**

No data available.

**Ingestion:**

No data available.

**Skin Contact:**

No data available.

**Eye contact:**

No data available.

**11.1 Information on toxicological effects**

**Acute toxicity**

**Oral**

**Product:**

Not classified for acute toxicity based on available data.

**Specified substance(s)**

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): > 2.375 mg/kg

**Inhalation**

**Product:**

Not classified for acute toxicity based on available data.

**Specified substance(s)**

Octamethylcyclotetrasiloxane

LC50 (Rat, 4 h): 36 mg/l

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**Repeated dose toxicity**

**Product:** No data available.

**Specified substance(s)**  
Octamethylcyclotetrasiloxane No data available.

**Skin Corrosion/Irritation:**

**Product:** No data available.

**Specified substance(s)**  
Octamethylcyclotetrasiloxane OECD-Guideline 404 (Acute Dermal Irritation/Corrosion) (Rabbit): Slightly irritating.

**Serious Eye Damage/Eye Irritation:**

**Product:** No data available.

**Specified substance(s)**  
Octamethylcyclotetrasiloxane OECD-Guideline 405 (Acute Eye Irritation/Corrosion) (Rabbit): Non irritating

**Respiratory or Skin Sensitization:**

**Product:** No data available.

**Specified substance(s)**  
Octamethylcyclotetrasiloxane Maximisation Test, OECD-Guideline 406 (Skin Sensitisation) (Guinea Pig): Not sensitizing

**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)  
Mouse Lymphoma Assay (OECD Guideline 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  
Dominant lethal assay (OECD 478) Oral (Rat, male and female): negative

**Carcinogenicity**

**Product:** No data available.

**Specified substance(s)**  
Octamethylcyclotetrasiloxane No data available.

**Reproductive toxicity**

**Product:** No data available.

**Specified substance(s)**  
Octamethylcyclotetrasiloxane No data available.

**Specific Target Organ Toxicity - Single Exposure**

**RTV5249****Product:** No data available.**Specified substance(s)**

Octamethylcyclotetrasiloxane No data available.

**Specific Target Organ Toxicity - Repeated Exposure****Product:** No data available.**Specified substance(s)**

Octamethylcyclotetrasiloxane No data available.

**Aspiration Hazard****Product:** No data available.**Specified substance(s)**

Octamethylcyclotetrasiloxane No data available.

**Other effects:** No data available.**SECTION 12: Ecological information****12.1 Toxicity****Acute toxicity****Fish****Product:** No data available.**Specified substance(s)**

Octamethylcyclotetrasiloxane No data available.

**Aquatic Invertebrates****Product:** No data available.**Specified substance(s)**

Octamethylcyclotetrasiloxane No data available.

**Chronic Toxicity****Fish****Product:** No data available.**Specified substance(s)**

Octamethylcyclotetrasiloxane No data available.

**Aquatic Invertebrates****Product:** No data available.**Specified substance(s)**

Octamethylcyclotetrasiloxane No data available.

**Toxicity to Aquatic Plants****Product:** No data available.

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**Specified substance(s)**

Octamethylcyclotetrasiloxane No data available.

**12.2 Persistence and Degradability**

**Biodegradation**

**Product:** No data available.

**Specified substance(s)**

Octamethylcyclotetrasiloxane (29 d, 310 Ready Biodegradability - CO<sub>2</sub> in Sealed Vessels (Headspace Test)): 3,7 % Persistent Not readily biodegradable.

**BOD/COD Ratio**

**Product** No data available.

**Specified substance(s)**

Octamethylcyclotetrasiloxane No data available.

**12.3 Bioaccumulative potential**

**Product:** No data available.

**Specified substance(s)**

Octamethylcyclotetrasiloxane Fathead Minnow, Bioconcentration Factor (BCF): 12,40

**12.4 Mobility in soil:**

No data available.

**Known or predicted distribution to environmental compartments**

Octamethylcyclotetrasiloxane No data available.

**12.5 Results of PBT and vPvB assessment:**

No data available.

Octamethylcyclotetrasiloxane

Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB)

Octamethylcyclotetrasiloxane (D4) meets the current EU REACH Annex XIII criteria for PBT and vPvB and has been added to the candidate list for Substances of very high concern (SVHC)., However our understanding of the available science is that D4 does not behave similarly to known PBT/vPvB substances. The silicones industries interpretation of the available data is that the weight of scientific evidence from field studies shows that D4 is not biomagnifying in aquatic and terrestrial food webs. D4 in air will degrade by naturally occurring reactions in the atmosphere. Any D4 in air that does not degrade by these reactions is not expected to deposit from the air to water, to land, or to living organisms.

**12.6 Other adverse effects:**

No data available.

**SECTION 13: Disposal considerations**

**13.1 Waste treatment methods**

**General information:**

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

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**Disposal methods:** Can be incinerated when in compliance with local regulations.

**SECTION 14: Transport information**

**ADR**

Not regulated.

**ADN**

Not regulated.

**RID**

Not regulated.

**IMDG**

Not regulated.

**IATA**

Not regulated.

**14.6 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. Protect from moisture. Keep away from food, foodstuff, acids and bases. keep away from odour sensitive materials

**14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code :**

Not applicable

**SECTION 15: Regulatory information**

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:**

**EU Regulations**

**Regulation 1005/2009/EC on substances that deplete the ozone layer, Annex I, Controlled Substances:** none

**Regulation 1005/2009/EC on substances that deplete the ozone layer, Annex II, New Substances:** none

**EU. Regulation 2019/1021/EU on persistent organic pollutants (POPs) (recast), as amended:** none

**Regulation (EC) No. 649/2012 Import and export of dangerous chemicals:** none

**Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorisation, as amended:** none

**EU. REACH Candidate List of Substances of Very High Concern for Authorization (SVHC):** none

**Regulation (EC) No. 1907/2006 Annex XVII Substances subject to restriction on marketing and use:**

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Chemical name	CAS-No.	Concentration
TITANIUM DIOXIDE	13463-67-7	0,1 - 1,0%

**Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens and mutagens at work.:** none

**Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens and mutagens at work.:**

Chemical name	CAS-No.	Concentration
QUARTZ	14808-60-7	0,1 - 1,0%

**Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breast feeding.:** none

**Directive 2012/18/EU (Seveso III): on the control of major accident hazards involving dangerous substances:** none

**EU. Regulation No. 166/2006 PRTR (Pollutant Release and Transfer Registry), Annex II: Pollutants:** none

**Directive 98/24/EC on the protection of workers from the risks related to chemical agents at work:** none

**15.2 Chemical safety assessment:**

No Chemical Safety Assessment has been carried out.

**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 Chemical Substance Inventory:	y (positive listing)	Remarks: None.
New Zealand Inventory of Chemicals:	n (negative listing)	Remarks: None.
REACH:	If purchased from Momentive Performance Materials GmbH in Leverkusen, Germany, all substances in this product have been registered by Momentive Performance Materials GmbH or upstream in our supply chain or are exempt from registration under Regulation (EC) No 1907/2006 (REACH). For polymers, this includes the constituent monomers and other reactants.	Remarks: None.

**SECTION 16: Other information**

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**RTV5249**

**Revision Information:** Not relevant.

**Key literature references and sources for data:** The partition coefficient of D4 between PDMS and water has been determined as  $\log K_{PDMS-water} = 7.09$ . It follows that PDMS containing up to 3%w/w D4 will generate a thermodynamic limit concentration of 2.4 µg D4/L in the water phase. The critical 21d-NOEC for daphnia of 7.9 µg D4/L will not be reached. The product is therefore not classified for chronic aquatic toxicity

**Wording of the H-statements in section 2 and 3:** none

**Training information:** No data available.

**Issue Date:** 13.01.2022

**Disclaimer:**

**Notice to reader**

Unless otherwise specified in section 1.2, Momentive Products are intended for industrial application only.

They are not intended for specific medical applications, neither for long-lasting (> 30 days) implantation into the human body, injected or directly ingested, nor for the manufacture of multiple usable contraceptives.

**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 safehandling, 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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