

RTV 615

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: RTV 615

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

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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

Supplemental label information

EUH210: Safety data sheet available on request.

Additional Information: No data available.

2.3 Other hazards

No data available.

SECTION 3: Composition/information on ingredients

Chemical nature: Polydimethylsiloxane containing vinyl groups, with Platinum catalyst and fillers.

3.2 Mixtures

General information: No data available.

Chemical name	Concentration	CAS-No.	EC No.	REACH Registration No.	M-Factor:	Notes
Octamethylcyclotetrasiloxane	0,1 - <1%	556-67-2	209-136-7	01-2119529238-36-0001	No data available.	PBT, vPvB
Dodecamethylcyclohexasiloxane	0,1 - <1%	540-97-6	208-762-8	01-2119517435-42-0001	No data available.	vPvB

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

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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: 2: H411;	No data available.
Dodecamethylcyclohexasiloxane	No data available.	

CLP: Regulation No. 1272/2008.

SECTION 4: First aid measures

General: Get medical attention if symptoms occur.

4.1 Description of first aid measures

Inhalation: Move to fresh air. Get medical attention if any discomfort continues.

Eye contact: Rinse the eye with water immediately. If eye irritation persists: Get medical advice/attention.

Skin Contact: Important to remove the substance from the skin immediately. Wash area with soap and water.

Ingestion: If swallowed, do NOT induce vomiting. Give a glass of water. Get medical attention.

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

Hazards: No data available.

Treatment: 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.

5.2 Special hazards arising from the substance or mixture: In case of fire, carbon monoxide and carbon dioxide may be formed. Use water spray to keep fire-exposed containers cool.

5.3 Advice for firefighters

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Special fire fighting procedures:	Take precautionary measures against static discharges. All equipment used when handling the product must be grounded.
Special protective equipment for fire-fighters:	Wear self-contained breathing apparatus and protective clothing. Use standard firefighting procedures and consider the hazards of other involved materials.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:	Use personal protective equipment. Caution: Contaminated surfaces may be slippery.
6.2 Environmental Precautions:	Prevent runoff from entering drains, sewers, or streams.
6.3 Methods and material for containment and cleaning up:	Collect spillage with granulates, sawdust, rags or other absorbent. Shovel up and place in a container for salvage or disposal. Flush away spillage with plenty of water. Caution: Contaminated surfaces may be slippery.
6.4 Reference to other sections:	See Section 8 of the SDS for Personal Protective Equipment.

SECTION 7: Handling and storage:

7.1 Precautions for safe handling:	Wear appropriate personal protective equipment.
Storage conditions:	Keep away from sources of ignition - No smoking. Store in original container. Keep away from heat and flame.
7.2 Conditions for safe storage, including any incompatibilities:	Keep away from water, acids, alkalis, amines and alcohols. Keep away from food, drink and animal feeding stuffs. Keep container tightly closed and in a 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	None of the components have assigned exposure limits.
Biological Limit Values	None.
8.2 Exposure controls	
Appropriate Engineering Controls:	Eyewash bottle with clean water.
Individual protection measures, such as personal protective equipment	
General information:	Use only in well-ventilated areas. Do not eat, drink or smoke when using the product. Wash hands after handling. Avoid contact with skin and eyes.
Eye/face protection:	Safety glasses with side-shields conforming to EN166
Skin protection	

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Hand Protection:	Advice: There is no risk to health due to contact with the chemical. Use hand protection to prevent mechanically injuries.
Other:	No data available.
Respiratory Protection:	No protection is ordinarily required under normal conditions of use and with adequate ventilation.
Hygiene measures:	Avoid contact with eyes, skin, and clothing. Wear suitable gloves and eye/face protection. Observe good industrial hygiene practices. Wash hands after handling. When using do not eat, drink or smoke.
Environmental exposure controls:	No data available.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state:	liquid
Form:	liquid
Color:	Colorless
Odor:	Faint
Odor Threshold:	No data available.
pH:	No data available.
Freezing point:	No data available.
Boiling Point:	> 260 °C (1,013 hPa) (No data available.)
Flash Point:	> 121 °C
Evaporation Rate:	No data available.
Flammability (solid, gas):	No data available.
Flammability Limit - Upper (%):	No data available.
Flammability Limit - Lower (%):	No data available.
Vapor pressure:	Negligible
Vapor density (air=1):	1,0
Density:	ca. 0,99 g/cm ³
Relative density:	No data available.
Solubility(ies)	
Solubility in Water:	Insoluble
Solubility (other):	Soluble in toluene
Partition coefficient (n-octanol/water) Log Pow:	No data available.
Autoignition Temperature:	No data available.
Decomposition Temperature:	Material is stable under normal conditions.
SADT:	No data available.
Viscosity, dynamic:	No data available.
Viscosity, kinematic:	No data available.
Explosive properties:	No data available.
Oxidizing properties:	No data available.

SECTION 10: Stability and reactivity

10.1 Reactivity:	No data available.
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10.2 Chemical Stability:	Material is stable under normal conditions.
10.3 Possibility of hazardous reactions:	Hazardous polymerisation does not occur.
10.4 Conditions to avoid:	Heat, sparks, flames.
10.5 Incompatible Materials:	Strong Acids, Strong Bases Oxidizing agents.
10.6 Hazardous Decomposition Products:	Oxides of silicon. Carbon oxides 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: Experience has shown, that the above mentioned product can be used without any danger to health, as long as the usual conditions of 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
Dodecamethylcyclohexasiloxane	LD 50 (Rat): 2.000 mg/kg

Dermal

Product:	Not classified for acute toxicity based on available data.
Specified substance(s)	
Octamethylcyclotetrasiloxane	LD 50 (Rat): > 2.400 mg/kg
Dodecamethylcyclohexasiloxane	LD 50 (Rat): 2.000 mg/kg

Inhalation

Product:	Not classified for acute toxicity based on available data.
Specified substance(s)	
Octamethylcyclotetrasiloxane	LC50 (Rat, 4 h): 36 mg/l
Dodecamethylcyclohexasiloxane	No data available.

Repeated dose toxicity

Product:	No data available.
Specified substance(s)	

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Octamethylcyclotetrasiloxane NOAEL (Rat(male and female), Inhalation - vapor(vapour)): 150 mg/kg
 NOAEL (Rabbit(male and female), Dermal): 950 mg/kg LOAEL
 (Rabbit(male and female), Dermal): 950 mg/kg
 Dodecamethylcyclohexasiloxane NOAEL (Rat(male and female), Oral): 1.000 mg/kg

Skin Corrosion/Irritation:

Product: No data available.

Specified substance(s)

Octamethylcyclotetrasiloxane OECD-Guideline 404 (Acute Dermal Irritation/Corrosion) (Rat): No skin irritation
 Dodecamethylcyclohexasiloxane OECD-Guideline 404 (Acute Dermal Irritation/Corrosion) (Rabbit, 72 h): No skin irritation

Serious Eye Damage/Eye Irritation:

Product: No data available.

Specified substance(s)

Octamethylcyclotetrasiloxane OECD-Guideline 405 (Acute Eye Irritation/Corrosion) (Rabbit): Not irritating
 Dodecamethylcyclohexasiloxane OECD-Guideline 405 (Acute Eye Irritation/Corrosion) (Rabbit, 72 h): No eye irritation Not irritating

Respiratory or Skin Sensitization:

Product: No data available.

Specified substance(s)

Octamethylcyclotetrasiloxane , OECD-Guideline 406 (Skin Sensitisation) (Guinea Pig)Not sensitizing
 Dodecamethylcyclohexasiloxane Maximisation Test, OECD-Guideline 406 (Skin Sensitisation) (Guinea Pig): negative

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 Guidline 476): negative (not mutagenic)
 Dodecamethylcyclohexasiloxane Ames-Test (OECD-Guideline 471 (Genetic Toxicology: Salmonella typhimurium, Reverse Mutation Assay)): negative

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
 Dodecamethylcyclohexasiloxane OECD-Guideline 474 (Genetic Toxicology: Micronucleus Test) (OECD-Guideline 474 (Genetic Toxicology: Micronucleus Test)) Intraperitoneal (Mouse, male and female): negative

Carcinogenicity

Product: No data available.

Specified substance(s)

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Octamethylcyclotetrasiloxane No data available.
 Dodecamethylcyclohexasiloxane No data available.

Reproductive toxicity

Product: No data available.

Specified substance(s)

Octamethylcyclotetrasiloxane No data available.
 Dodecamethylcyclohexasiloxane No data available.

Specific Target Organ Toxicity - Single Exposure

Product: No data available.

Specified substance(s)

Octamethylcyclotetrasiloxane No data available.
 Dodecamethylcyclohexasiloxane No data available.

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

Specified substance(s)

Octamethylcyclotetrasiloxane No data available.
 Dodecamethylcyclohexasiloxane No data available.

Aspiration Hazard

Product: No data available.

Specified substance(s)

Octamethylcyclotetrasiloxane No data available.
 Dodecamethylcyclohexasiloxane 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.
 Dodecamethylcyclohexasiloxane No data available.

Aquatic Invertebrates

Product: No data available.

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Specified substance(s)

Octamethylcyclotetrasiloxane No data available.
 Dodecamethylcyclohexasiloxane No data available.

Chronic Toxicity

Fish

Product: No data available.

Specified substance(s)

Octamethylcyclotetrasiloxane No data available.
 Dodecamethylcyclohexasiloxane NOEC (Pimephales promelas, 49 d): 0,0044 mg/l

Aquatic Invertebrates

Product: No data available.

Specified substance(s)

Octamethylcyclotetrasiloxane No data available.
 Dodecamethylcyclohexasiloxane NOEC (Daphnia magna, 21 d): 0,0046 mg/l
 EC50 (Sediment Invertebrate, 28 d): > 420 mg/l
 LOEC (Sediment Invertebrate, 28 d): >= 420 mg/l

Toxicity to Aquatic Plants

Product: No data available.

Specified substance(s)

Octamethylcyclotetrasiloxane No data available.
 Dodecamethylcyclohexasiloxane EC50 (Algae (Pseudokirchneriella subcapitata), 72 h): > 0,002 mg/l (OECD Test Guideline 201)
 NOEC (Algae (Pseudokirchneriella subcapitata), 72 h): >= 0,002 mg/l (OECD Test Guideline 201)

12.2 Persistence and Degradability

Biodegradation

Product: No data available.

Specified substance(s)

Octamethylcyclotetrasiloxane (29 d, 310 Ready Biodegradability - CO₂ in Sealed Vessels (Headspace Test)): 3,7 % Persistent Not readily biodegradable.
 Dodecamethylcyclohexasiloxane No data available.

BOD/COD Ratio

Product: No data available.

Specified substance(s)

Octamethylcyclotetrasiloxane No data available.
 Dodecamethylcyclohexasiloxane No data available.

12.3 Bioaccumulative potential

Product: No data available.

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Specified substance(s)

Octamethylcyclotetrasiloxane	Fathead Minnow, Bioconcentration Factor (BCF): 12,40
Dodecamethylcyclohexasiloxane	No data available.

12.4 Mobility in soil: No data available.

Known or predicted distribution to environmental compartments

Octamethylcyclotetrasiloxane	No data available.
Dodecamethylcyclohexasiloxane	No data available.

12.5 Results of PBT and vPvB assessment:

Octamethylcyclotetrasiloxane	Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) 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)., <i>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.</i>
Dodecamethylcyclohexasiloxane	vPvB: very persistent and very bioaccumulative substance.	Dodecamethylcyclohexasiloxane (D6) meets the current EU REACH Annex XIII criteria for vPvB and has been added to the candidate list for Substances of very high concern (SVHC)., <i>However our understanding of the available science is that D6 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 D6 is not biomagnifying in aquatic and terrestrial food webs. D6 in air will degrade by naturally occurring reactions in the atmosphere. Any D6 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</i>

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.

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

SECTION 14: Transport information

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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. Keep away from foodstuffs and animal feed.

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 (EC) No. 2037/2000 Substances that deplete the ozone layer: none

Regulation (EC) No. 850/2004 on persistent organic pollutants: 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):

Chemical name	CAS-No.	Concentration
Octamethylcyclotetrasiloxane	556-67-2	0 - <=0,5940%
Dodecamethylcyclohexasiloxane	540-97-6	0 - <=0,1020%

Regulation (EC) No. 1907/2006 Annex XVII Substances subject to restriction on marketing and use: none

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

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

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Directive 96/82/EC (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:

Chemical name	CAS-No.	Concentration
Octamethylcyclotetrasiloxane	556-67-2	0,1 - 1,0%

15.2 Chemical safety assessment:

No Chemical Safety Assessment has been carried out.

Inventory Status

Australia AICS:	On or in compliance with the inventory	Remarks: None.
Canada DSL Inventory List:	On or in compliance with the inventory	Remarks: None.
EINECS, ELINCS or NLP:	On or in compliance with the inventory	Remarks: None.
Japan (ENCS) List:	On or in compliance with the inventory	Remarks: None.
China Inv. Existing Chemical Substances:	On or in compliance with the inventory	Remarks: None.
Korea Existing Chemicals Inv. (KECI):	On or in compliance with the inventory	Remarks: None.
Canada NDSL Inventory:	Not in compliance with the inventory.	Remarks: None.
Philippines PICCS:	On or in compliance with the inventory	Remarks: None.
US TSCA Inventory:	On or in compliance with the inventory	Remarks: None.
New Zealand Inventory of Chemicals:	On or in compliance with the inventory	Remarks: None.
Taiwan Chemical Substance Inventory:	On or in compliance with the inventory	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

Revision Information: Not relevant.

Key literature references and sources for data: No data available.

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Wording of the H-statements in section 2 and 3

H226	Flammable liquid and vapor.
H361f	Suspected of damaging fertility.
H411	Toxic to aquatic life with long lasting effects.

Training information: No data available.

Issue Date: 12.08.2018

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