

RTV615

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: RTV615

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

Identified uses: Silicone Elastomer (B)

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

Contact person : MomentiveEMEA.productsteward@momentive.com

Telephone : General information
00800.4321.1000 (Customer Service Centre)

1.4

Emergency telephone number : Europe, Israel & All other: +44 (0) 1235239670; Middle East: +44 (0) 1235239671

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

Additional Information: EUH210: Safety data sheet available on request.
No data available.

2.3 Other hazards No data available.

SECTION 3: Composition/information on ingredients

Chemical nature: Mixture of polydimethylsiloxane terminated with vinyl and hydrogen groups.

3.2 Mixtures

General information: No data available.

RTV615

Chemical name	Concentration	CAS-No.	EC No.	REACH Registration No.	M-Factor:	Notes
Dodecamethyl cyclohexasiloxane	0,1 - <1%	540-97-6	208-762-8	01-2119517435-42-0001	No data available.	vPvB
Decamethyl cyclopentasiloxane	0,1 - <1%	541-02-6	208-764-9	01-2119511367-43-0002	No data available.	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
Dodecamethylcyclohexasiloxane	No data available.	
Decamethylcyclopentasiloxane	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 symptoms occur.

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

Skin Contact: After contact with skin, remove product mechanically. 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. Use water spray to keep fire-exposed containers cool.

5.1 Extinguishing media Suitable extinguishing media:

Extinguish with foam, carbon dioxide or dry powder.

RTV615

Unsuitable extinguishing media:	Water.
5.2 Special hazards arising from the substance or mixture:	In case of fire, carbon monoxide and carbon dioxide may be formed. Contact with water liberates flammable gas. Use water spray to keep fire-exposed containers cool.
5.3 Advice for firefighters Special fire fighting procedures:	Product may charge electrostatically during pouring or filling. Keep away from sources of ignition - No smoking. Use only in well-ventilated areas. Move container from fire area if it can be done without risk. Static electricity and formation of sparks must be prevented.
Special protective equipment for fire-fighters:	Wear self-contained breathing apparatus and protective clothing. Do not get water inside container or in contact with the material. Avoid water in straight hose stream; will scatter and spread fire.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:	Caution: Contaminated surfaces may be slippery. 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:	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:	Prevent runoff from entering drains, sewers, or streams.

SECTION 7: Handling and storage:

7.1 Precautions for safe handling:	Product may charge electrostatically during pouring or filling. Pack only into unbreakable packing materials (no glass containers !) to avoid contact with substances mentioned in Section 10. Wear appropriate personal protective equipment.
Storage conditions:	Keep away from sources of ignition - No smoking. Store in original container.
7.2 Conditions for safe storage, including any incompatibilities:	Keep container tightly closed and in a well-ventilated place. Keep away from water, acids, alkalis, amines and alcohols.
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	

RTV615

Appropriate Engineering Controls: Eyewash bottle with clean water.

Individual protection measures, such as personal protective equipment

- General information:** Eyewash bottle with clean water. 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**
- 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. 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/cm³
- 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.

RTV615

Decomposition Temperature:	No decomposition if stored and applied as directed.
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.
10.2 Chemical Stability:	No data available.
10.3 Possibility of hazardous reactions:	Product generates flammable gas on contact with acids, bases or oxidizing substances.
10.4 Conditions to avoid:	No data available.
10.5 Incompatible Materials:	Strong Acids, Strong Bases Oxidizing agents.
10.6 Hazardous Decomposition Products:	Evolves hydrogen on contact with acids, alkalis, alcohols, powdered metals or, as the case may be, metal oxides. Hydrogen; Danger of formation of explosive hydrogen/air mixtures. 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: 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)	
Dodecamethylcyclohexasiloxane	LD 50 (Rat): 2.000 mg/kg
Decamethylcyclopentasiloxane	No data available.

Dermal

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

RTV615

Decamethylcyclopenta siloxane LD 50 (Rabbit): > 2.000 mg/kg

Inhalation

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

Specified substance(s)

Dodecamethylcyclohexasiloxane No data available.

Decamethylcyclopentasiloxane LC50 (Rat, 4 h): 8,67 mg/l

Repeated dose toxicity

Product: No data available.

Specified substance(s)

Dodecamethylcyclohexasiloxane NOAEL (Rat(male and female), Oral): 1.000 mg/kg

Decamethylcyclopentasiloxane NOAEL (Rat(male and female), Oral, 90 d): 1.000 mg/kg
 NOAEL (Rat(male and female), Dermal, 28 d): 1.600 mg/kg
 NOAEC (Rat(male and female), Inhalation - vapor, 2 y): 160 ppm

Skin Corrosion/Irritation:

Product: No data available.

Specified substance(s)

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

Decamethylcyclopentasiloxane OECD Test Guideline 404 (Rabbit, 72 h): Non irritating

Serious Eye Damage/Eye Irritation:

Product: (Rabbit): No eye irritation

Specified substance(s)

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

Decamethylcyclopentasiloxane OECD Test Guideline 405 (Rabbit, 72 h): Non irritating

Respiratory or Skin Sensitization:

Product: Magnusson-Kligmann (Guinea Pig): In tests with guinea-pigs, the product did not show a sensitising effect (OECD 406; GPMT according to Magnusson-Kligman).

Specified substance(s)

Dodecamethylcyclohexasiloxane Maximisation Test, OECD-Guideline 406 (Skin Sensitisation) (Guinea Pig): negative

Decamethylcyclopentasiloxane LLNA (Local Lymph Node Assay), OECD Guideline 429 (LLNA) (Mouse): Non sensitizing.

Germ Cell Mutagenicity

In vitro

Product: No data available.

Specified substance(s)

Dodecamethylcyclohexasiloxane Ames-Test (OECD-Guideline 471 (Genetic Toxicology: Salmonella typhimurium, Reverse Mutation Assay)): negative

RTV615

Decamethylcyclopentasil oxane Ames-Test (OECD-Guideline 471 (Genetic Toxicology: Salmonella typhimurium, Reverse Mutation Assay)): negative (not mutagenic)
 Mammalian cytogenicity test (Mouse Lymphoma Assay (OECD Guideline 476)): negative (not mutagenic)
 Chromosomal aberration (OECD 473): negative (not mutagenic)

In vivo

Product: No data available.

Specified substance(s)

Dodecamethylcyclohexasiloxane OECD-Guideline 474 (Genetic Toxicology: Micronucleus Test) (OECD-Guideline 474 (Genetic Toxicology: Micronucleus Test)) Intraperitoneal (Mouse, male and female): negative
 Decamethylcyclopentasil oxane (OECD-Guideline 474 (Genetic Toxicology: Micronucleus Test)) Inhalation (Rat, male and female)negative (not mutagenic) Vapor.

Carcinogenicity

Product: No data available.

Specified substance(s)

Dodecamethylcyclohexasiloxane No data available.
 Decamethylcyclopentasil oxane No data available.

Reproductive toxicity

Product: No data available.

Specified substance(s)

Dodecamethylcyclohexasiloxane No data available.
 Decamethylcyclopentasil oxane No data available.

Specific Target Organ Toxicity - Single Exposure

Product: No data available.

Specified substance(s)

Dodecamethylcyclohexasiloxane No data available.
 Decamethylcyclopentasil oxane No data available.

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

Specified substance(s)

Dodecamethylcyclohexasiloxane No data available.
 Decamethylcyclopentasil oxane No data available.

Aspiration Hazard

Product: No data available.

Specified substance(s)

Dodecamethylcyclohexasiloxane No data available.
 Decamethylcyclopentasil oxane No data available.

Other effects: No data available.

SECTION 12: Ecological information

12.1 Toxicity

Acute toxicity

Fish

Product: LC0 (Leuciscus idus, 96 h): 200 mg/l

Specified substance(s)

Dodecamethylcyclohexas
 iloxane No data available.

Decamethylcyclopentasil
 oxane LC50 (Oncorhynchus mykiss, 96 h): > 0,0016 mg/l (OECD-Guideline 204)

Aquatic Invertebrates

Product: No data available.

Specified substance(s)

Dodecamethylcyclohexas
 iloxane No data available.

Decamethylcyclopentasil
 oxane EC50 (Daphnia magna, 48 h): > 0,0029 mg/l (OECD Test Guideline 202)

Chronic Toxicity

Fish

Product: No data available.

Specified substance(s)

Dodecamethylcyclohexas
 iloxane NOEC (Pimephales promelas, 49 d): 0,0044 mg/l

Decamethylcyclopentasil
 oxane NOEC (Oncorhynchus mykiss, 90 d): >= 0,0014 mg/l (OECD-Guideline 210)
 LOEC (Oncorhynchus mykiss, 90 d): > 0,0014 mg/l (OECD-Guideline 210)

Aquatic Invertebrates

Product: No data available.

Specified substance(s)

Dodecamethylcyclohexas
 iloxane 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

Decamethylcyclopentasil
 oxane NOEC (Daphnia magna, 21 d): >= 0,0015 mg/l (OECD-Guideline 211)
 LOEC (Daphnia magna, 21 d): > 0,0015 mg/l

Toxicity to Aquatic Plants

Product: No data available.

Specified substance(s)

Dodecamethylcyclohexas
 iloxane 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)

Decamethylcyclopentasil
 oxane EC50 (Algae (Pseudokirchneriella subcapitata), 96 h): > 0,0012 mg/l (OECD Test Guideline 201)
 NOEC : >= 0,0012 mg/l
 EC10 : > 0,0012 mg/l

12.2 Persistence and Degradability

RTV615

Biodegradation

Product: No data available.

Specified substance(s)

Dodecamethylcyclohexasiloxane No data available.

Decamethylcyclopentasiloxane activated sludge (adaptation not specified) (28 d, OECD Test Guideline 310): 0,14 % The product is not readily biodegradable.

BOD/COD Ratio

Product No data available.

Specified substance(s)

Dodecamethylcyclohexasiloxane No data available.

Decamethylcyclopentasiloxane No data available.

12.3 Bioaccumulative potential

Product: No data available.

Specified substance(s)

Dodecamethylcyclohexasiloxane No data available.

Decamethylcyclopentasiloxane Fathead Minnow, Bioconcentration Factor (BCF): 7.060 (OECD Test Guideline 305)

12.4 Mobility in soil:

No data available.

Known or predicted distribution to environmental compartments

Dodecamethylcyclohexasiloxane No data available.

Decamethylcyclopentasiloxane No data available.

12.5 Results of PBT and vPvB assessment:

vPvB: very persistent and very bioaccumulative substance.

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)., *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*

RTV615

Decamethylcyclpentasiloxane	vPvB: very persistent and very bioaccumulative substance.	Decamethylcyclpentasiloxane (D5) 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 D5 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 D5 is not biomagnifying in aquatic and terrestrial food webs. D5 in air will degrade by naturally occurring reactions in the atmosphere. Any D5 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>
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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

ADR

Not regulated.

ADN

Not regulated.

RID

Not regulated.

IMDG

Not regulated.

IATA

Not regulated.

14.6 Special precautions for user: Keep away from food, drink and animal feeding stuffs. This product is not prohibited for air shipment by national or international regulations on the transport of dangerous goods. However, as a result of the potential formation of hydrogen gas under certain conditions, Momentive Performance Materials recommends that this product should be shipped using a mode of transportation other than air (IATA-C, IATA-P).

RTV615

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
Dodecamethylcyclohexasiloxane	540-97-6	0 - <=0,1480%
Decamethylcyclopentasiloxane	541-02-6	0 - <=0,1030%

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

Chemical name	CAS-No.	Concentration
Toluene	108-88-3	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 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breast feeding.:

Chemical name	CAS-No.	Concentration
Toluene	108-88-3	0,1 - 1,0%

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
Toluene	108-88-3	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.

RTV615

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.

Wording of the H-statements in section 2 and 3

H225	Highly flammable liquid and vapor.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H336	May cause drowsiness or dizziness.
H361d	Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.

Training information: No data available.

Issue Date: 12.08.2018

RTV615

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 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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