

# 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 133

### 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

**Contact person** : commercial.services@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 been classified according to the legislation in force.

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

#### Health Hazards

Specific Target Organ Toxicity -  
Repeated Exposure

#### Target Organs

1. Lung

Category 2<sup>1</sup>.

H373: May cause damage to organs through prolonged or repeated exposure.

### 2.2 Label Elements

**Contains:** QUARTZ



**Signal Words:** Warning

**RTV 133**

**Hazard Statement(s):** H373: May cause damage to organs through prolonged or repeated exposure.

**Precautionary Statements**

**Prevention:** P260: Do not breathe dust/fume/gas/mist/vapors/spray.

**Response:** P314: Get medical advice/attention if you feel unwell.

**Disposal:** P501: 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.

**Unknown toxicity - Health**

Acute toxicity, oral	0,18 %
Acute toxicity, dermal	0,14 %
Acute toxicity, inhalation, vapor	0,14 %
Acute toxicity, inhalation, dust or mist	0,14 %

**Additional Information:** This product is a mixture containing polymer compounds and hazardous substances as listed in section 3. The relevant hazardous classification according to CLP Directive 1272/2008 is stated in section 2 of this SDS. Although the preparation is classified as a hazardous preparation it does not present a danger to human health by inhalation, ingestion or contact with the skin or to aquatic environment in the form in which it is placed on the market. According to Annex I No. 1.3.4.1 of the Directive 1272/2008 such preparations do not require a label.

**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.

Chemical name	Concentration	CAS-No.	EC No.	REACH Registration No.	M-Factor:	Notes
QUARTZ	20 - <50%	14808-60-7	238-878-4	Exempt	No data available.	#
Vinyltrimethoxysilane	1 - <5%	2768-02-7	220-449-8	01-2119513215-52-0001	No data available.	
Titanium, Bis(ethyl acetoacetato)-diisopropoxy	1 - <5%	27858-32-8	248-697-2	No data available.	No data available.	

\* 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).

### RTV 133

PBT: persistent, bioaccumulative and toxic substance.  
vPvB: very persistent and very bioaccumulative substance.

#### Classification

Chemical name	Classification	Notes
QUARTZ	STOT RE: 2: H373;	
Vinyltrimethoxysilane	Flam. Liq.: 3: H226; Acute Tox.: 4: H332;	
Titanium, Bis(ethyl acetoacetato)-diisopropoxy	Flam. Liq.: 3: H226; Eye Dam.: 2: H319; STOT SE: 3: H336;	

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

<b>Suitable extinguishing media:</b>	All standard extinguishing agents are suitable.
<b>Unsuitable extinguishing media:</b>	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. Reacts with water liberating small amounts of methanol.

### 5.3 Advice for firefighters

<b>Special fire fighting procedures:</b>	Move container from fire area if it can be done without risk. Cool fire-endangered containers with water.
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## SECTION 6: Accidental release measures

### RTV 133

- 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
QUARTZ - Respirable.	TWA	0,1 mg/m3	UK. EH40 Workplace Exposure Limits (WELs), as amended (12 2011)
QUARTZ - Respirable fraction and dust	TWA	0,1 mg/m3	EU. OELs, Directive 2004/37/EC on carcinogen and mutagens from Annex III, Part A, as amended (12 2017)
Carbon Black	STEL	7 mg/m3	UK. EH40 Workplace Exposure Limits (WELs), as amended (12 2011)
	TWA	3,5 mg/m3	UK. EH40 Workplace Exposure Limits (WELs), as amended (12 2011)
	STEL	7 mg/m3	UK. EH40 Workplace Exposure Limits (WELs), as amended (12 2011)
	TWA	3,5 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.

#### 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 conforming to EN166

**Skin protection**

### RTV 133

<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>	Black
<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>	No data available.
<b>Flash Point:</b>	No data available.
<b>Evaporation Rate:</b>	No data available.
<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>	Not applicable
<b>Vapor density (air=1):</b>	No data available.
<b>Density:</b>	ca. 1.230 g/cm <sup>3</sup>
<b>Relative density:</b>	ca. 1,23
<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)
<b>Explosive properties:</b>	No data available.
<b>Oxidizing properties:</b>	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.

## RTV 133

<b>10.3 Possibility of hazardous reactions:</b>	Under normal conditions of storage and use, hazardous polymerization will not occur.
<b>10.4 Conditions to avoid:</b>	Keep away from moisture. Keep away from heat, sparks and open flame.
<b>10.5 Incompatible Materials:</b>	Strong Acids, Strong Bases
<b>10.6 Hazardous Decomposition Products:</b>	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

<b>Inhalation:</b>	No data available.
<b>Ingestion:</b>	No data available.
<b>Skin Contact:</b>	No data available.
<b>Eye contact:</b>	No data available.

### 11.1 Information on toxicological effects

#### Acute toxicity

##### Oral

<b>Product:</b>	Not classified for acute toxicity based on available data.
<b>Specified substance(s)</b>	
QUARTZ	No data available.
Vinyltrimethoxysilane	No data available.
Titanium, Bis(ethyl acetoacetato)-diisopropoxy	No data available.

##### Dermal

<b>Product:</b>	Not classified for acute toxicity based on available data.
<b>Specified substance(s)</b>	
QUARTZ	No data available.
Vinyltrimethoxysilane	LD 50 (Rabbit): > 3.400 mg/kg LD 50 (Rabbit): > 3.460 - 4.000 mg/kg
Titanium, Bis(ethyl acetoacetato)-diisopropoxy	No data available.

##### Inhalation

<b>Product:</b>	ATEmix273,97 mg/l Vapour
<b>Specified substance(s)</b>	
QUARTZ	No data available.
Vinyltrimethoxysilane	LC50 (Rat, 4 h): 16,79 mg/l
Titanium, Bis(ethyl acetoacetato)-diisopropoxy	No data available.

**RTV 133**

**Repeated dose toxicity**

**Product:** No data available.

**Specified substance(s)**

QUARTZ No data available.

Vinyltrimethoxysilane No data available.

Titanium, Bis(ethyl

acetoacetato)-

diispropoxy

**Skin Corrosion/Irritation:**

**Product:** No data available.

**Specified substance(s)**

QUARTZ No data available.

Vinyltrimethoxysilane No data available.

Titanium, Bis(ethyl

acetoacetato)-

diispropoxy

**Serious Eye Damage/Eye Irritation:**

**Product:** No data available.

**Specified substance(s)**

QUARTZ No data available.

Vinyltrimethoxysilane OECD-Guideline 405 (Acute Eye Irritation/Corrosion) (Rabbit): No eye irritation

Titanium, Bis(ethyl

acetoacetato)-

diispropoxy

**Respiratory or Skin Sensitization:**

**Product:** No data available.

**Specified substance(s)**

QUARTZ No data available.

Vinyltrimethoxysilane , OECD-Guideline 406 (Skin Sensitisation) (Guinea Pig) Did not cause sensitization on laboratory animals.

Titanium, Bis(ethyl

acetoacetato)-

diispropoxy

**Germ Cell Mutagenicity**

**In vitro**

**Product:** No data available.

**Specified substance(s)**

QUARTZ No data available.

Vinyltrimethoxysilane Chinese Hamster Ovary (CHO) (OECD 476): negative (not mutagenic)  
Ames-Test (OECD-Guideline 471 (Genetic Toxicology: Salmonella typhimurium, Reverse Mutation Assay)): negative (not mutagenic)  
Chromosomal aberration (OECD 473): positive

Titanium, Bis(ethyl

acetoacetato)-diispropoxy

**In vivo**

**Product:** No data available.

**Specified substance(s)**

QUARTZ No data available.

**RTV 133**

Vinyltrimethoxysilane Chromosomal aberration Intraperitoneal (Mouse): negative  
Titanium, Bis(ethyl  
acetoacetato)-diispropoxy No data available.

**Carcinogenicity**

**Product:** No data available.

**Specified substance(s)**

QUARTZ No data available.  
Vinyltrimethoxysilane No data available.  
Titanium, Bis(ethyl  
acetoacetato)-diispropoxy No data available.

**Reproductive toxicity**

**Product:** No data available.

**Specified substance(s)**

QUARTZ No data available.  
Vinyltrimethoxysilane No data available.  
Titanium, Bis(ethyl  
acetoacetato)-diispropoxy No data available.

**Specific Target Organ Toxicity - Single Exposure**

**Product:** No data available.

**Specified substance(s)**

QUARTZ No data available.  
Vinyltrimethoxysilane No data available.  
Titanium, Bis(ethyl  
acetoacetato)-diispropoxy No data available.

**Specific Target Organ Toxicity - Repeated Exposure**

**Product:** No data available.

**Specified substance(s)**

QUARTZ No data available.  
Vinyltrimethoxysilane No data available.  
Titanium, Bis(ethyl  
acetoacetato)-diispropoxy No data available.

**Target Organs:**

QUARTZ Lungs

**Aspiration Hazard**

**Product:** No data available.

**Specified substance(s)**

QUARTZ No data available.  
Vinyltrimethoxysilane No data available.  
Titanium, Bis(ethyl  
acetoacetato)-diispropoxy No data available.

**Other effects:** No data available.

**SECTION 12: Ecological information**

**12.1 Toxicity**

**Acute toxicity**



**RTV 133**

**Fish**

**Product:** No data available.

**Specified substance(s)**

QUARTZ No data available.  
Vinyltrimethoxysilane No data available.  
Titanium, Bis(ethyl acetoacetato)-diispropoxy No data available.

**Aquatic Invertebrates**

**Product:** No data available.

**Specified substance(s)**

QUARTZ No data available.  
Vinyltrimethoxysilane EC50 (Daphnia magna, 48 h): > 100 mg/l (OECD Test Guideline 202)  
EC50 (Daphnia magna, 24 h): 297,2 mg/l  
EC50 (Daphnia magna, 48 h): 168,7 mg/l  
NOEC (Daphnia magna, 21 d): 28 mg/l  
Titanium, Bis(ethyl acetoacetato)-diispropoxy No data available.

**Chronic Toxicity**

**Fish**

**Product:** No data available.

**Specified substance(s)**

QUARTZ No data available.  
Vinyltrimethoxysilane No data available.  
Titanium, Bis(ethyl acetoacetato)-diispropoxy No data available.

**Aquatic Invertebrates**

**Product:** No data available.

**Specified substance(s)**

QUARTZ No data available.  
Vinyltrimethoxysilane No data available.  
Titanium, Bis(ethyl acetoacetato)-diispropoxy No data available.

**Toxicity to Aquatic Plants**

**Product:** No data available.

**Specified substance(s)**

QUARTZ No data available.  
Vinyltrimethoxysilane EC50 (Desmodesmus subspicatus (green algae), 72 h): > 100 mg/l (OECD Test Guideline 201)  
EC50 (Selenastrum capricornutum, 7 d): 210 mg/l Fresh water  
EC10 (Selenastrum capricornutum, 7 d): 32 mg/l Fresh water  
NOEC (Selenastrum capricornutum, 7 d): Approximate 25 mg/l Fresh water  
Titanium, Bis(ethyl acetoacetato)-diispropoxy No data available.

**12.2 Persistence and Degradability**

**Biodegradation**

**RTV 133**

**Product:** No data available.

**Specified substance(s)**

QUARTZ No data available.  
Vinyltrimethoxysilane (28 d, OECD-Guideline 301 F (Manometric Respirometry Test)): The product is not readily biodegradable.  
Titanium, Bis(ethyl acetoacetato)-diispropoxy No data available.

**BOD/COD Ratio**

**Product** No data available.

**Specified substance(s)**

QUARTZ No data available.  
Vinyltrimethoxysilane No data available.  
Titanium, Bis(ethyl acetoacetato)-diispropoxy No data available.

**12.3 Bioaccumulative potential**

**Product:** No data available.

**Specified substance(s)**

QUARTZ No data available.  
Vinyltrimethoxysilane hydrolyses The product is not bioaccumulating.  
Titanium, Bis(ethyl acetoacetato)-diispropoxy No data available.

**12.4 Mobility in soil:**

No data available.

**Known or predicted distribution to environmental compartments**

QUARTZ No data available.  
Vinyltrimethoxysilane No data available.  
Titanium, Bis(ethyl acetoacetato)-diispropoxy No data available.

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

No data available.

QUARTZ No data available.  
Vinyltrimethoxysilane No data available.  
Titanium, Bis(ethyl acetoacetato)-diispropoxy No data available.

**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. Do not discharge into drains, water courses or onto the ground. See Section 8 for information on appropriate personal protective equipment.

**Disposal methods:**

Can be incinerated when in compliance with local regulations.

**SECTION 14: Transport information**

**ADR**

Not regulated.

**ADN**

SDS\_GB

**RTV 133**

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 (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):** none

**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.:**

Chemical name	CAS-No.	Concentration
QUARTZ	14808-60-7	20 - 30%

**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:**

**RTV 133**

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.
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 Chemical Substance Inventory:	y (positive 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**

**Revision Information:** Not relevant.

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

**Wording of the H-statements in section 2 and 3**

H226	Flammable liquid and vapor.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H336	May cause drowsiness or dizziness.
H373	May cause damage to organs through prolonged or repeated exposure.

**Training information:** No data available.

**Issue Date:** 09.12.2019

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**RTV 133**

**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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