

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: RTV511

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

Identified uses: Silicone Elastomer

Uses advised against: For industrial use only.

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

2.2 Label Elements

Not applicable

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 with filler and coloured pigment.

3.2 Mixtures

General information: No data available.

| Chemical name | Concentration | CAS-No. | EC No. | REACH Registration No. | M-Factor: | Notes |
|------------------------------|---------------|------------|-----------|------------------------------|-----------------------|-------|
| Silicic acid, ethyl ester | 1 - <5% | 11099-06-2 | 234-324-0 | No data available. | No data available. | |

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

RTV511

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 |
|---------------------------|--|-------|
| Silicic acid, ethyl ester | Flam. Liq.: 3: H226; STOT SE: 3: H335; Eye Dam.: 2: H319; Acute Tox.: 4: H302; | |

CLP: Regulation No. 1272/2008.

SECTION 4: First aid measures

General: Move into fresh air and keep at rest. Get medical attention if symptoms occur.

4.1 Description of first aid measures

Inhalation: Move the exposed person to fresh air at once.

Eye contact: Rinse the eye with water immediately. Get medical attention if symptoms occur.

Skin Contact: After contact with skin, remove product mechanically. Flush contaminated skin with plenty of water.

Ingestion: If swallowed, rinse mouth with water (only if the person is conscious). Do NOT induce vomiting. Consult a physician for specific advice.

4.2 Most important symptoms and effects, both acute and delayed: None known.

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.

5.1 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.

5.2 Special hazards arising from the substance or mixture:

In case of fire, carbon monoxide and carbon dioxide may be formed. Exposure to fire can generate toxic fumes. Acute overexposure to the products of combustion may result in irritation of the respiratory tract.

5.3 Advice for firefighters

Special fire fighting procedures: No data available.

RTV511

Special protective equipment for fire-fighters: Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply.

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures:** Use personal protective equipment. Use only in well-ventilated areas.
- 6.2 Environmental Precautions:** Do not allow runoff to sewer, waterway or ground.
- 6.3 Methods and material for containment and cleaning up:** Absorb spillage with suitable absorbent material. Sweep up and shovel into suitable containers for disposal. Clean thoroughly.
- 6.4 Reference to other sections:** See Section 8 of the SDS for Personal Protective Equipment. Collect and dispose of spillage as indicated in section 13 of the SDS.

SECTION 7: Handling and storage:

- 7.1 Precautions for safe handling:** Avoid contact with skin and eyes. Wear appropriate personal protective equipment. Use only in well-ventilated areas.
- Storage conditions:** No data available.
- 7.2 Conditions for safe storage, including any incompatibilities:** Keep container tightly closed in a cool, well-ventilated place. Keep away from water or moist air.
- Storage Stability:** No data available.
- 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 - Respirable. | TWA | 4 mg/m3 | UK. EH40 Workplace Exposure Limits (WELs) (12 2011) |
| Calcium Carbonate - Inhalable | TWA | 10 mg/m3 | UK. EH40 Workplace Exposure Limits (WELs) (12 2011) |
| Calcium Carbonate - Inhalable dust. | TWA | 10 mg/m3 | UK. EH40 Workplace Exposure Limits (WELs) (12 2011) |
| Calcium Carbonate - Respirable dust. | TWA | 4 mg/m3 | UK. EH40 Workplace Exposure Limits (WELs) (12 2011) |

Biological Limit Values

None.

8.2 Exposure controls

Appropriate Engineering Controls: Eye wash facilities and emergency shower must be available when handling this product. Use only in well-ventilated areas.

Individual protection measures, such as personal protective equipment

General information: No data available.

Eye/face protection: Safety glasses with side-shields conforming to EN166

RTV511

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:

Wear suitable protective clothing.

Respiratory Protection:

Use only in well-ventilated areas. In case of inadequate ventilation use suitable respirator.

Hygiene measures:

Observe good industrial hygiene practices. Good personal hygiene is necessary. Wash hands and contaminated areas with water and soap before leaving the work site. 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:

White

Odor:

Faint

Odor Threshold:

No data available.

pH:

No data available.

Freezing point:

No data available.

Boiling Point:

Not applicable

Flash Point:

> 100 °C (Closed Cup)

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:

No data available.

Vapor density (air=1):

No data available.

Density:

No data available.

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:

No decomposition if stored and applied as directed.

SADT:

No data available.

Viscosity, dynamic:

ca. 16.000 mPa·s

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.

RTV511

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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: | No data available. |
| 10.5 Incompatible Materials: | Reacts with water liberating small amounts of methanol. Avoid contact with acids and oxidizing substances. |
| 10.6 Hazardous Decomposition Products: | Oxides of silicon. Carbon oxides Tin fumes. 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: ATEmix: 26.509,73 mg/kg

Specified substance(s)
Silicic acid, ethyl ester No data available.

Dermal

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

Specified substance(s)
Silicic acid, ethyl ester No data available.

Inhalation

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

Specified substance(s)
Silicic acid, ethyl ester No data available.

Repeated dose toxicity

Product: No data available.

Specified substance(s)
Silicic acid, ethyl ester No data available.

Skin Corrosion/Irritation:

Product: No data available.

Specified substance(s)
Silicic acid, ethyl ester No data available.

RTV511

Serious Eye Damage/Eye

Irritation:

Product: No data available.

Specified substance(s)

Silicic acid, ethyl ester No data available.

Respiratory or Skin

Sensitization:

Product: No data available.

Specified substance(s)

Silicic acid, ethyl ester No data available.

Germ Cell Mutagenicity

In vitro

Product: No data available.

Specified substance(s)

Silicic acid, ethyl ester No data available.

In vivo

Product: No data available.

Specified substance(s)

Silicic acid, ethyl ester No data available.

Carcinogenicity

Product: No data available.

Specified substance(s)

Silicic acid, ethyl ester No data available.

Reproductive toxicity

Product: No data available.

Specified substance(s)

Silicic acid, ethyl ester No data available.

Specific Target Organ Toxicity - Single Exposure

Product: No data available.

Specified substance(s)

Silicic acid, ethyl ester No data available.

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

Specified substance(s)

Silicic acid, ethyl ester No data available.

Aspiration Hazard

Product: No data available.

Specified substance(s)

Silicic acid, ethyl ester No data available.

Other effects: No data available.

SECTION 12: Ecological information

RTV511

12.1 Toxicity

Acute toxicity

Fish

Product: No data available.

Specified substance(s)

Silicic acid, ethyl ester No data available.

Aquatic Invertebrates

Product: No data available.

Specified substance(s)

Silicic acid, ethyl ester No data available.

Chronic Toxicity

Fish

Product: No data available.

Specified substance(s)

Silicic acid, ethyl ester No data available.

Aquatic Invertebrates

Product: No data available.

Specified substance(s)

Silicic acid, ethyl ester No data available.

Toxicity to Aquatic Plants

Product: No data available.

Specified substance(s)

Silicic acid, ethyl ester No data available.

12.2 Persistence and Degradability

Biodegradation

Product: No data available.

Specified substance(s)

Silicic acid, ethyl ester No data available.

BOD/COD Ratio

Product No data available.

Specified substance(s)

Silicic acid, ethyl ester No data available.

12.3 Bioaccumulative potential

Product: No data available.

Specified substance(s)

Silicic acid, ethyl ester No data available.

12.4 Mobility in soil:

No data available.

Known or predicted distribution to environmental compartments

Silicic acid, ethyl ester No data available.

RTV511

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|---|--------------------|
| 12.5 Results of PBT and vPvB assessment: | No data available. |
| Silicic acid, ethyl ester | No data available. |
| 12.6 Other adverse effects: | No data available. |

SECTION 13: Disposal considerations

13.1 Waste treatment methods

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|-----------------------------|---|
| 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

Not regulated.

RID

Not regulated.

IMDG

Not regulated.

IATA

Not regulated.

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| 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

RTV511

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.: 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

Directive 96/82/EC (Seveso III): on the control of major accident hazards involving dangerous substances:

| Chemical name | CAS-No. | Concentration |
|---------------------|---------|---------------|
| Tetraethyl Silicate | 78-10-4 | 0,1 - 1,0% |

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 |
|---------------------|---------|---------------|
| Tetraethyl Silicate | 78-10-4 | 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. |

RTV511

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|--------|---|----------------|
| REACH: | <p>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.</p> | Remarks: None. |
|--------|---|----------------|

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| SECTION 16: Other information |
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Revision Information: Not relevant.

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

Wording of the H-statements in section 2 and 3

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|------|-----------------------------------|
| H226 | Flammable liquid and vapor. |
| H302 | Harmful if swallowed. |
| H319 | Causes serious eye irritation. |
| H335 | May cause respiratory irritation. |

| | |
|------|-----------------------------------|
| H226 | Flammable liquid and vapor. |
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Training information: No data available.

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