

# Safety Data Sheet

Material: 60003743

ELASTOSIL® RT 426

Version: 2.3 (US)

Date of print: 09/13/2022

Date of last alteration: 09/03/2020

## 1. Product and company identification

### 1.1 Identification of the substance or preparation:

**Commercial product name:** ELASTOSIL® RT 426Use of substance / preparation: Industrial.  
Potting compound

### 1.2 Company/undertaking identification:

Manufacturer/distributor: Wacker Chemie AG  
Hanns-Seidel-Platz 4  
81737 München  
GermanyCustomer information: Wacker Chemical Corporation  
3301 Sutton Road  
Adrian, Michigan 49221-9397  
USA  
InfoLine:  
Tel (517) 264-8240  
Hours of operation:  
Monday - Friday, 8 am to 5 pm (eastern standard time)  
Corporate website: www.wacker.comEmergency telephone no. (24h): **(517) 264-8500**Transportation emergency: (800) 424-9300 (CHEMTREC, USA)  
(703) 527-3887 (CHEMTREC, international)

This SDS was prepared by the Regulatory Affairs and Product Safety Department (RAPS) of Wacker Chemical Corporation.

## 2. Hazards identification

### 2.1 Classification of the substance or mixture

**Classification (GHS):**

Hazard class	Hazard category	Route of exposure	H-Code
Reproductive toxicity	Category 2		H361f

### 2.2 Label elements

**Labelling (GHS):**

Pictogram(s):



Signal Word: Warning

H-Code	Hazard Statements
H361f	Suspected of damaging fertility.

P-Code	Precautionary Statements
P280	Wear protective gloves/protective clothing/eye protection.

### 2.3 Other hazards

The product contains substances which are relevant for the assessment in chapter 12.5.

## 3. Composition/information on ingredients

### 3.1 Chemical characterization (preparation)

Chemical characteristics  
Polysiloxane with functional groups+auxiliary

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**3.2 Information on ingredients:**

Type	CAS No.	Substance	Content [wt. %]		Note
			Lower	Upper	
INHA	14808-60-7	Quartz	>40.0	<50.0	C1, C2
VERU	556-67-2	Octamethyl cyclotetrasiloxane	>=0.1	<0.3	R

**Type:** HYD - by-product upon hydrolysis, INHA - ingredient, NEBE - by-product, MONO - residual monomer, VERU - impurity, VUL - by-product upon vulcanization. \*\*\* **Note:** C1 - IARC carcinogen, C2 - NTP carcinogen, C3 - OSHA carcinogen, NH - non-hazardous, R - reproductive toxin.

Quartz: This component does not impact the product's hazard classification. Due to the product's physical properties, particulate inhalation exposure is not possible.

Substances listed in the Subsections "HAPS" and "California Proposition 65 Carcinogens / Reproductive Toxins" that are not listed in this section are only present at quantities below 0.1% for California Proposition 65 listed toxins or below 1% for non-carcinogenic HAPS or they are inextricably bound in the product. Specific chemical identities and/or exact percentage (concentration) of the composition may have been withheld as a trade secret.

**The product contains the following substances of very high concern (Regulation (EC) No. 1907/2006 (REACH), Article 57) in amounts  $\geq 0.1\%$ :**

Type	CAS No.	Substance	Content [%]
VERU	556-67-2	Octamethylcyclotetrasiloxane	>=0.1– <0.3

Type: INHA: ingredient, VERU: impurity

**4. First-aid measures****4.1 General information:**

Get medical attention if irritation or other symptoms occur. Before seeking medical attention remove contaminated clothing and shoes. Take a copy of the Safety Data Sheet when going for medical treatment.

**4.2 After inhalation**

Inhalation is not applicable. No special treatment required.

**4.3 After contact with the skin**

For skin contact, immediately wipe away excess material. Wash with soap and water.

**4.4 After contact with the eyes**

If contact with eyes, immediately hold eyelids apart and flush with plenty of water for at least 15 min.

**4.5 After swallowing**

For ingestion, if conscious, give several glasses of water but do not induce vomiting. If vomiting does occur, give additional fluids.

**5. Fire-fighting measures****5.1 Flammable properties:**

Property:	Value:	Method:
Flash point.....	> 250 °C (> 482 °F)	(DIN 51376)
Boiling point / boiling range .....	not applicable	
Lower explosion limit (LEL) .....	not applicable	
Upper explosion limit (UEL).....	not applicable	
Ignition temperature .....	> 450 °C (> 842 °F)	(DIN 51794)

**5.2 Fire and explosion hazards:**

This material does not present any unusual fire or explosion hazards.

**5.3 Recommended extinguishing media:**

water-mist , carbon dioxide, dry chemical or foam-type extinguishing media .

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**5.4 Unsuitable extinguishing media:**

none known

**5.5 Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases**

Hazardous decomposition products: carbon dioxide , carbon monoxide , formaldehyde , silicon dioxide and incompletely burnt hydrocarbons .

**5.6 Fire fighting procedures:**

Fire fighters should wear full protective clothing including a self-contained breathing apparatus. Cool endangered containers with water.

**6. Accidental release measures****6.1 Precautions:**

Secure the area. Wear personal protection equipment (see section 8). Keep unprotected persons away. If material is released indicate risk of slipping. Do not walk through spilled material.

**HAZWOPER PPE Level: D****6.2 Containment:**

Prevent material from entering surface waters, drains or sewers and soil. Close leak if possible without risk. Contain any fluid that runs out using suitable material (e.g. earth). Retain contaminated water/extinguishing water. Dispose of in prescribed marked containers. Inform authorities if substance leaks into surface waters, sewerage or ground.

Spills of material which could reach surface waters must be reported to the United States Coast Guard National Response Center's toll free phone number (800) 424-8802.

**6.3 Methods for cleaning up**

Take up mechanically and dispose of according to local/state/federal regulations. Do not flush away with water. For small amounts: Absorb with a neutral (non-acidic / non-basic) liquid binding material such as diatomaceous earth and dispose of according to government regulations. For large amounts: Liquids may be recovered using suction devices or pumps. If flammable, only air driven or properly rated electrical equipment should be used. Clean any slippery coating that remains using a detergent / soap solution or another biodegradable cleaner. Silicone fluids are slippery; spills are a safety hazard. Apply sand or other inert granular material to improve traction.

**7. Handling and storage****7.1 General information:**

Stir thoroughly before use or catalysing.

**7.2 Handling****Precautions for safe handling:**

Avoid formation of aerosols. In case of aerosol formation special protective measures are required (exhausting by suction, respiratory protection). Spilled substance increases risk of slipping. Observe information in section 8.

**Precautions against fire and explosion:**

Observe the general rules for fire prevention.

**7.3 Storage****Conditions for storage rooms and vessels:**

Observe local/state/federal regulations.

**Advice for storage of incompatible materials:**

Observe local/state/federal regulations.

**Further information for storage:**

Store in a dry and cool place.

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## 8. Exposure controls and personal protection

### 8.1 Engineering controls

**Ventilation:**

Use with adequate ventilation.

**Local exhaust:**

No special ventilation required.

### 8.2 Associate substances with specific control parameters such as limit values

none known

**Further information:**Maximum concentration at workplace recommended by producer: octamethylcyclotetrasiloxane (D4, CAS no. 556-67-2) = 10 ppm (123 mg/m<sup>3</sup>).

### 8.3 Personal protection equipment (PPE)

**Respiratory protection:**

Respiratory protection is not normally required.

**Hand protection:**

Any liquid-tight rubber or vinyl gloves.

**Eye protection:**

Safety glasses with side shields or chemical safety goggles.

**Other protective clothing or equipment:**

Additional protective clothing or equipment is not normally required. Provide eye bath and safety shower.

### 8.4 General hygiene and protection measures:

Wash thoroughly after handling.

## 9. Physical and chemical properties

### 9.1 Appearance

Physical state ..... : liquid  
Colour ..... : red  
Odour ..... : odourless

### 9.2 Safety parameters

Property:	Value:	Method:
Melting point / melting range .....	not applicable	
Boiling point / boiling range .....	not applicable	
Flash point.....	> 250 °C (> 482 °F)	(DIN 51376)
Ignition temperature .....	> 450 °C (> 842 °F)	(DIN 51794)
Lower explosion limit (LEL) .....	not applicable	
Upper explosion limit (UEL).....	not applicable	
Vapour pressure.....	not applicable	
Density .....	1.44 g/cm <sup>3</sup> at 20 °C (68 °F)	(DIN 53217)
Water solubility / miscibility.....	virtually insoluble	
pH-Value .....	not applicable	
Viscosity (dynamic) .....	15000 - 25000 mPa.s at 23 °C (73 °F)	(Brookfield)

### 9.3 Further information

Odour limit..... : no data available  
Thermal decomposition..... : > 250 °C (> 482 °F)

## 10. Stability and reactivity

### 10.1 General information:

If stored and handled in accordance with standard industrial practices no hazardous reactions are known.

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## 10.2 Conditions to avoid

None known.

## 10.3 Materials to avoid

None known.

## 10.4 Hazardous decomposition products

If stored and handled properly: none known. Measurements have shown the formation of small amounts of formaldehyde at temperatures above about 150 °C (302 °F) through oxidation.

## 10.5 Further information:

Hazardous polymerization cannot occur.

# 11. Toxicological information

## 11.1 Information on toxicological effects

### 11.1.1 General information

Data derived for the product as a whole are of higher priority than data for single ingredients.

### 11.1.2 Acute toxicity

#### Product details:

Route of exposure	Result/Effect	Species/Test system	Source
Oral	LD50: > 2000 mg/kg	Rat	Conclusion by analogy
dermal	LD50: > 2000 mg/kg	Rat	Conclusion by analogy

### 11.1.3 Skin corrosion/irritation

#### Product details:

Result/Effect	Species/Test system	Source
No skin irritation	Rabbit	Conclusion by analogy

### 11.1.4 Serious eye damage / eye irritation

#### Product details:

Result/Effect	Species/Test system	Source
No eye irritation	Rabbit	Conclusion by analogy

### 11.1.5 Respiratory or skin sensitization

#### Product details:

Route of exposure	Result/Effect	Species/Test system	Source
dermal	Does not cause skin sensitisation.	Guinea pig; Buehler Test	Conclusion by analogy OECD 406

### 11.1.6 Germ cell mutagenicity

#### Assessment:

For this endpoint no toxicological test data is available for the whole product.

#### Data on substances:

#### Octamethylcyclotetrasiloxane (D4):

Based on known data a significant mutagenic potential may be excluded.

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### 11.1.7 Carcinogenicity

**Assessment:**

For this endpoint no toxicological test data is available for the whole product.

**Data on substances:****Octamethylcyclotetrasiloxane (D4):**

In a two year combined chronic toxicity and carcinogenicity inhalation study with octamethylcyclotetrasiloxane (OMCTS/D4) in rats, an increased incidence of (uterine) endometrial cell hyperplasia and endometrial adenomas were observed at the highest exposure level of 700 ppm in female rats. These same effects were not seen at the other dose levels of 10, 30, and 150 ppm. Since these effects only occurred at 700 ppm, a level that greatly exceeds typical workplace or consumer exposure, it is unlikely that industrial, commercial or consumer uses of products containing OMCTS/D4 would result in a significant risk to humans.

Weight of evidence does not support classification as a carcinogen

### 11.1.8 Reproductive toxicity

**Assessment:**

For this endpoint no toxicological test data is available for the whole product.

**Data on substances****Octamethylcyclotetrasiloxane (D4):**

In a two generation reproductive study via inhalation with OMCTS/D4 rats, decreased mean live litter size and prolonged labor (dystocia) were observed at the 500 ppm and 700 ppm exposure levels. The relevance of these effects in humans cannot be determined at this time. Because these effects are only seen at very high exposure levels, it is unlikely that industrial, commercial and/or consumer uses of products containing OMCTS/D4 would result in a significant risk to humans. Based on animal experiments there is no indication of developmental effects.

### 11.1.9 Specific target organ toxicity (single exposure)

**Assessment:**

For this endpoint no toxicological test data is available for the whole product.

### 11.1.10 Specific target organ toxicity (repeated exposure)

**Assessment:**

For this endpoint no toxicological test data is available for the whole product.

**Data on substances:****Octamethylcyclotetrasiloxane (D4):**

Based on the available data the criteria for classification as toxic after repeated exposure are not fulfilled.

### 11.1.11 Aspiration hazard

**Assessment:**

Based on the physical-chemical properties of the product no aspiration hazard must be expected.

### 11.1.12 Further toxicological information

Quartz has been classified by IARC as carcinogen group 1 ("carcinogenic to humans") and by NTP as known to be a human carcinogen. No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

## 12. Ecological information

### 12.1 Toxicity

**Assessment:**

Assessment based on ecotoxicological tests with similar products under consideration of the physical-chemical properties: For this product no effects on aquatic organisms, relevant for classification, are expected. According to current knowledge adverse effects on water purification plants are not expected.

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**12.2 Persistence and degradability****Assessment:**

Silicone content: biologically not degradable. Separation by sedimentation.

**12.3 Bioaccumulative potential****Assessment:**

Polymer component: No adverse effects expected.

**12.4 Mobility in soil****Assessment:**

Silicone content: Insoluble in water.

**12.5 Results of PBT and vPvB assessment**The product contains substances  $\geq 0.1\%$  that have been subjected to the SVHC process according to REACH regulation (EC) No 1907/2006 Art. 57 as fulfilling the PBT and/or vPvB criteria according to REACH regulation (EC) No 1907/2006 Annex XIII.**12.6 Other adverse effects**

none known

**12.7 Additional information**

Easily separable from water by filtration.

**13. Disposal considerations****13.1 Product disposal****Recommendation:**

Material that cannot be used, reprocessed or recycled should be disposed of in accordance with Federal, State, and local regulations at an approved facility. Depending on the regulations, waste treatment methods may include, e.g., landfill or incineration.

**13.2 Packaging disposal****Recommendation:**

Completely discharge containers (no tear drops, no powder rest, scraped carefully). Containers may be recycled or re-used. Observe local/state/federal regulations. Uncleaned packaging should be treated with the same precautions as the material.

**14. Transport information****14.1 US DOT & CANADA TDG SURFACE**

Valuation .....: Not regulated for transport

**14.2 Transport by sea IMDG-Code**

Valuation .....: Not regulated for transport

**14.3 Air transport ICAO-TI/IATA-DGR**

Valuation .....: Not regulated for transport

**15. Regulatory information****15.1 U.S. Federal regulations****TSCA inventory status and TSCA information:**

This material or its components are listed on or are in compliance with the requirements of the TSCA Chemical Substance Inventory.

**TSCA 12(b) Export Notification:**

This material does not contain reportable amounts of any TSCA 12(b) listed chemicals.

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**CERCLA Regulated Chemicals:**

This material does not contain any CERCLA regulated chemicals.

**SARA 302 EHS Chemicals:**

This material does not contain any SARA extremely hazardous substances.

**SARA 311/312 Hazard Class:**

Reproductive toxicity

**SARA 313 Chemicals:**

This material does not contain any SARA 313 chemicals above de minimus levels.

**HAPS (Hazardous Air Pollutants):****15.2 U.S. State regulations****California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act of 1986):**

California Proposition 65 Carcinogens:

14808-60-7 Quartz

This material does not contain any chemicals known to the State of California to cause reproductive effects.

**Massachusetts Substance List:**

1309-37-1 Iron oxide

14808-60-7 Quartz

**New Jersey Right-to-Know Hazardous Substance List:**

1309-37-1 Iron oxide

14808-60-7 Quartz

**Pennsylvania Right-to-Know Hazardous Substance List:**

1309-37-1 Iron oxide

14808-60-7 Quartz

**15.3 Details of international registration status**

Relevant information about individual substance inventories, where available, is given below.

Japan.....	: <b>ENCS</b> (Handbook of Existing and New Chemical Substances): This product is listed in, or complies with, the substance inventory.
Australia .....	: <b>AICS</b> (Australian Inventory of Chemical Substances): This product is listed in, or complies with, the substance inventory.
China .....	: <b>IECSC</b> (Inventory of Existing Chemical Substances in China): This product is listed in, or complies with, the substance inventory.
Canada.....	: <b>DSL</b> (Domestic Substance List): This product is listed in, or complies with, the substance inventory.
Philippines.....	: <b>PICCS</b> (Philippine Inventory of Chemicals and Chemical Substances): This product is listed in, or complies with, the substance inventory.
United States of America (USA) .....	: <b>TSCA</b> (Toxic Substance Control Act Chemical Substance Inventory): All components of this product are listed as active or are in compliance with the substance inventory.
Taiwan.....	: <b>TCSI</b> (Taiwan Chemical Substance Inventory): This product is listed in, or complies with, the substance inventory. General note: The Taiwanese chemicals regulation requires a phase 1 registration for TCSI-listed or TCSI-compliant substances if imports to Taiwan or manufacturing in Taiwan exceed the trigger quantity of 100 kg/a (for mixtures to be calculated per each ingredient). It is the duty of the importing/manufacturing legal entity to take care of this obligation.
European Economic Area (EEA) .....	: <b>REACH</b> (Regulation (EC) No 1907/2006): General note: the registration obligations for substances imported into the EEA or manufactured within the EEA by the supplier mentioned in section 1 are fulfilled by the said supplier. The registration obligations for substances imported into the EEA by customers or other downstream users must be fulfilled by the latter.
South Korea (Republic of Korea).....	: <b>AREC</b> (Act on Registration and Evaluation of Chemicals; "K-REACH"): Please approach your regular WACKER contact for more detailed information.



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**16. Other information****16.1 Additional information:**

This Safety Data Sheet (SDS) meets the requirements of the Federal OSHA Hazard Communication Standard (29 CFR 1910.1200). This information relates to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is to the best of our knowledge and belief accurate and reliable as of the date compiled. However, no representation, warranty or guarantee expressed or implied, is made as to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use. We do not accept liability for any loss or damage that may occur from the use of this information. Nothing herein shall be construed as a recommendation for uses which infringe valid patents or as extending a license under valid patents. This SDS provides selected regulatory information on this product, including its components. This is not intended to include all regulations. It is the responsibility of the user to know and comply with all applicable rules, regulations and laws relating to the product being used.

Vertical lines in the left-hand margin indicate changes compared with the previous version.

WACKER restricts the use of its products inside the human body or in contact with bodily fluids and mucosa. For further details please review our Health Care Policy on [www.wacker.com](http://www.wacker.com). WACKER may cancel any delivery obligation(s) if the Health Care Policy is not observed.

**16.2 Glossary of Terms:**

ACGIH - American Conference of Governmental Industrial Hygienists

DOT - Department of Transportation

hPa - Hectopascals

mPa\*s - Milli Pascal-Seconds

OSHA - Occupational Safety and Health Administration

PEL - Permissible Exposure Limit

ppm - Parts per Million

SARA - Superfund Amendments and Reauthorization Act

STEL - Short Term Exposure Limit

TSCA - Toxic Substances Control Act

TWA - Time Weighted Average

WHMIS - Canadian Workplace Hazardous Materials Identification System

**Flash point determination methods**

ASTM D56.....

ASTM D92, DIN 51376, ISO 2592 .....

ASTM D93, DIN 51758, ISO 2719 .....

ASTM D3278, DIN 55680, ISO 3679 .....

DIN 51755.....

**Common name**

Tagliabue (Tag) closed cup

Cleveland open cup

Pensky-Martens closed cup

Setaflash or Rapid closed cup

Abel-Pensky closed cup

**16.3 Conversion table:**

Pressure:.....: 1 hPa \* 0.75 = 1 mm Hg = 1 torr; 1 bar = 1000 hPa

Viscosity:.....: 1 mPa\*s = 1 centipoise (cP)