

Safety Data Sheet

Material: ELASTOSIL RT 601 A

Version 2 3 (US)

Date of print 08/14/2018

Date of last alteration 08/14/2018

1. Product and company identification**1.1 Identification of the substance or preparation:**

Commercial product name:	ELASTOSIL RT 601 A
Product group	RTV Silicone Rubber
Use of substance / preparation	Industrial Potting compound

1.2 Company/undertaking identification:

Manufacturer/distributor	Wacker Chemie AG Hanns-Seidel-Platz 4 81737 Munchen Germany
Customer information	Wacker Chemical Corporation 3301 Sutton Road Adrian, Michigan 49221-9397 USA InfoLine Tel (517) 264-8240, Fax (517) 264-8740 Hours of operation Monday - Friday, 8 am to 5 pm (eastern standard time) Corporate website www.wacker.com
Emergency 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):**

Not a hazardous substance or mixture

2.2 Label elements**Labelling (GHS):**

No labeling according to GHS required

2.3 Other hazards

No data available

3. Composition/information on ingredients**3.1 Chemical characterization (preparation)****Chemical characteristics**

Polydimethylsiloxane with functional groups and auxiliaries for addition cross-linking

3.2 Information on ingredients:

This material does not contain any ingredients above the permitted limit(s)

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.

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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

Material cannot be inhaled under normal conditions. No special treatment required.

4.3 After contact with the skin

After skin contact wipe off excess material with cloth or paper. Use a waterless hand cleaner to remove as much of the remaining material as possible. 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

No special measures are required after swallowing.

5. Fire-fighting measures

5.1 Flammable properties:

Property:	Value:	Method:
Flash point	> 302 °C (> 575 °F)	(ISO 2592)
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)
NFPA Hazard Class (comb./flam. liquid)	IIIB	

5.2 Fire and explosion hazards:

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

5.3 Recommended extinguishing media:

water-spray, dry chemical, alcohol-resistant foam, carbon dioxide, sand.

5.4 Unsuitable extinguishing media:

water jet.

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.

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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 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.

7.2 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.

8. Exposure controls and personal protection

8.1 Engineering controls

Ventilation:

Use with adequate ventilation.

Local exhaust:

not necessary.

8.2 Associate substances with specific control parameters such as limit values

none known.

8.3 Personal protection equipment (PPE)

Respiratory protection:

Respiratory protection is not normally required.

Hand protection:

Recommendation: Any liquid-tight rubber or vinyl gloves.

Eye protection:

Recommendation: Safety glasses with side shields.

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:

When handling, do not eat, drink, smoke or apply cosmetics. Wash thoroughly after handling.

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9. Physical and chemical properties**9.1 Appearance**

Physical state / form	liquid
Colour	colourless
Odour	odourless

9.2 Safety parameters

Property:	Value:	Method:
Melting point / melting range	not applicable	
Boiling point / boiling range	not applicable	
Flash point	> 302 °C (> 575 °F)	(ISO 2592)
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	1.03 g/cm ³ at 20 °C (68 °F)	
Water solubility / miscibility	virtually insoluble	
pH-Value	approx. 7	
Viscosity (dynamic)	4000 - 7000 mPa s at 20 °C (68 °F)	

9.3 Further information

Odour limit	no data available
Thermal decomposition	> 200 °C (> 392 °F)

10. Stability and reactivity**10.1 General information:**

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

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 Acute toxicity****Assessment:**

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

Acute toxicity estimate (ATE):

ATE_{mix} (oral) > 2000 mg/kg

11.1.2 Skin corrosion/irritation**Assessment:**

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

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11.1.3 Serious eye damage / eye irritation

Assessment:

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

11.1.4 Respiratory or skin sensitization

Assessment:

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

11.1.5 Germ cell mutagenicity

Assessment:

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

11.1.6 Carcinogenicity

Assessment:

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

11.1.7 Reproductive toxicity

Assessment:

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

11.1.8 Specific target organ toxicity (single exposure)

Assessment:

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

11.1.9 Specific target organ toxicity (repeated exposure)

Assessment:

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

11.1.10 Aspiration hazard

Assessment:

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

11.1.11 Further toxicological information

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. 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:

For the product as a whole, no test data is available. According to current knowledge adverse effects on water purification plants are not expected.

12.2 Persistence and degradability

Assessment:

Silicone content: biologically not degradable. Separation by sedimentation.

12.3 Bioaccumulative potential

Assessment:

No adverse effects expected.

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12.4 Mobility in soil**Assessment:**

Silicone content Insoluble in water

12.5 Other adverse effects

none known

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.

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:

This product does not present any SARA 311/312 hazards.

SARA 313 Chemicals:

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

HAPS (Hazardous Air Pollutants):

CAS No	Chemical	Upper limit wt. %
108-88-3	Toluene	<=0.0599

This material contains toluene as an impurity at less than 0.1%.

15.2 U.S. State regulations

California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act of 1986):

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This material does not contain any chemicals known to the State of California to cause cancer

California Proposition 65 Reproductive Toxins

108-88-3 Toluene

Massachusetts Substance List:

This material contains no listed components

New Jersey Right-to-Know Hazardous Substance List:

This material contains no listed components

Pennsylvania Right-to-Know Hazardous Substance List:

This material contains no listed components

15.3 Details of international registration status

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

South Korea (Republic of Korea)	ECL (Existing Chemicals List) This product is listed in, or complies with, the substance inventory
Japan	ENCS (Handbook of Existing and New Chemical Substances) This product is listed in, or complies with, the substance inventory
Australia	AICS (Australian Inventory of Chemical Substances) This product is listed in, or complies with, the substance inventory
People's Republic of China	IECSC (Inventory of Existing Chemical Substances in China) This product is listed in, or complies with, the substance inventory
Canada	DSL (Domestic Substance List) This product is listed in, or complies with, the substance inventory
Philippines	PICCS (Philippine Inventory of Chemicals and Chemical Substances) This product is listed in, or complies with, the substance inventory
United States of America (USA)	TSCA (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 (Republic of China)	TCSI (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)	REACH (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

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

All deliveries are subject to the WACKER SILICONES Health Care Policy, which is available at www.wacker.com

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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

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

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

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)