

**Material Safety Data Sheet**Material: 60006597 ELASTOSIL® R 401/40  
S

Version: 1.0 (US) Date of print: 11/02/2009 Date of last alteration: 12/08/2008

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

Commercial product name: ELASTOSIL® R 401/40  
S  
Use of substance / preparation: Industrial.  
Raw material for: elastomer products .

**1.2 Company/undertaking identification:**

Manufacturer/distributor: Wacker Chemie AG  
Hanns-Seidel-Platz 4  
81737 München  
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 MSDS was prepared by the Regulatory Affairs and Product Safety Department (RAPS) of Wacker Chemical Corporation.

**2 Composition/information on ingredients****2.1 Chemical characterization (preparation):****Chemical characteristics**

Polydimethylsiloxane with vinyl groups and filler

**2.2 Information on ingredients:**

This material does not contain any hazardous substances at or above OSHA and WHMIS reportable levels.

Substances listed in the Subsections "HAPS" and "California Proposition 65 Carcinogens / Reproductive Toxins" that are not listed in Section 2 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.

**3 Hazards identification****3.1 Hazards classifications****HMIS® rating (product as packaged):**

Health: 1 Fire: 1 Reactivity: 0 PPE: B

Hazardous Materials Identification System and HMIS are registered trademarks of the National Paint and Coatings Association. (HMIS codes are based on contact with the product as packaged and any hydrolysis by-products, if present.)

Canadian WHMIS Classification: None.

**Material Safety Data Sheet**

---

Material: 60006597                      ELASTOSIL® R 401/40  
SVersion: 1.0 (US)                      Date of print: 11/02/2009                      Date of last alteration: 12/08/2008

---

**3.2 Emergency overview and potential hazards**

This material is not hazardous under OSHA criteria. This material is not hazardous under WHMIS criteria.

**Physical Hazards:**

No known physical hazards.

**Acute health effects****Route of entry or possible contact:**

eyes , skin .

**Eye contact:**

May cause slight eye irritation.

**Skin contact:**

No acute toxic skin effects are expected.

**Inhalation:**

No acute toxic respiratory tract effects are expected. Inhalation is not expected due to low vapor pressure or high viscosity.

**Ingestion:**

Ingestion is not expected in industrial use.

**Additional information on acute health effects:**

The health hazard evaluation is based on test results and/or on known properties of ingredients. Due to the physical nature of this material (paste), exposure to dusts/particulates is not expected.

**3.3 Further information:****Chronic health effects:**

No known or expected chronic health effects.

**Medical conditions which may be aggravated by exposure:**

none known

**Target organs affected:**

No known internal organ effects.

**Signs and Symptoms of Exposure:**

Refer to Acute Health Effects, listed above.

**Carcinogens/Reproductive toxins:**

There are no carcinogenic ingredients present at or over 0.1% in this material. This material does not contain any reproductive toxins at or above OSHA or WHMIS reportable levels.

See Section 11 for Toxicological Information, if any.

**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 measures required.

**4.3 After contact with the skin:**

For 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:**

After swallowing: No special treatment is required.

**Material Safety Data Sheet**Material: 60006597 ELASTOSIL® R 401/40  
S

Version: 1.0 (US) Date of print: 11/02/2009 Date of last alteration: 12/08/2008

**5 Fire-fighting measures**

- 5.1 Flammable properties:** **Method**  
Flash point.....: > 200 °C (> 392 °F) (DIN 51376)  
Boiling point / boiling range.....: not applicable  
Lower explosion limit (LEL).....: not applicable  
Upper explosion limit (UEL).....: not applicable  
Ignition temperature .....: > 400 °C (> 752 °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-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:**  
No special measures required.  
**HAZWOPER PPE Level:** D
- 6.2 Containment:**  
Prevent material from entering sewers or surface waters.  
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:**  
Scoop up large quantities after dusting surfaces with sand or Fuller's earth to prevent sticking. Sweep or scrape up the spilled material and place in an appropriate chemical waste container. Clean any slippery coating that remains using a detergent / soap solution or another biodegradable cleaner. Apply sand or other inert granular material to improve traction.

**7 Handling and storage**

- 7.1 Handling**  
**Precautions for safe handling:**  
No special protective measures required.  
**Precautions against fire and explosion:**  
No special precautions against fire and explosion required.
- 7.2 Storage**  
**Conditions for storage rooms and vessels:**  
none known  
**Advice for storage of incompatible materials:**  
not applicable  
**Further information for storage:**  
Keep container tightly closed. 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

**Material Safety Data Sheet**Material: 60006597 ELASTOSIL® R 401/40  
S

Version: 1.0 (US) Date of print: 11/02/2009 Date of last alteration: 12/08/2008

**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:**

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:**

Avoid contact with eyes, skin and clothing. When handling do not eat, drink, smoke or apply cosmetics. Follow standard industrial hygiene practices when using this material. Wash thoroughly after handling.

**9 Physical and chemical properties****9.1 Appearance**Physical state / form.....: paste  
Colour.....: transparent  
Odour.....: slight**9.2 Safety parameters**

	Method
Melting point / melting range.....	not applicable
Boiling point / boiling range.....	not applicable
Flash point.....	> 200 °C (> 392 °F) (DIN 51376)
Ignition temperature .....	> 400 °C (> 752 °F) (DIN 51794)
Lower explosion limit (LEL).....	not applicable
Upper explosion limit (UEL).....	not applicable
Vapour pressure.....	not applicable
Density.....	approx. 1.12 g/cm <sup>3</sup> at 20 °C (68 °F) (ISO 1183-1 A)
Water solubility / miscibility.....	virtually insoluble
pH-Value.....	not applicable
Viscosity (dynamic).....	> 9000000 mPa.s

**9.3 Further information**

Thermal decomposition.....: &gt; 250 °C (&gt; 482 °F)

**10 Stability and reactivity****10.0 General information:**

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

**10.1 Conditions to avoid:**

none known

**10.2 Materials to avoid:**

none known

**10.3 Hazardous decomposition products:**

If stored and handled in accordance with standard industrial practices and local regulations where applicable: none known . Measurements have shown the formation of small amounts of formaldehyde at temperatures above about 150 °C (302 °F) through oxidation.

**10.4 Further information:**

Hazardous polymerization cannot occur.

**11 Toxicological information****11.1 General information:**

Toxicological testing has not been conducted with this material.

**11.2 Toxicological data:**

**Material Safety Data Sheet**Material: 60006597 ELASTOSIL® R 401/40  
S

Version: 1.0 (US) Date of print: 11/02/2009 Date of last alteration: 12/08/2008

Experience with man:

-

**12 Ecological information****12.1 Information on elimination (persistence and degradability)****Biodegradation / further information:**

Biologically not degradable.

**Further information:**

Separation by sedimentation.

**12.2 Behaviour in environmental compartments****Mobility**

Insoluble in water.

**Further information:**

Bioaccumulation is not expected to occur.

**12.3 Ecotoxicological effects:**

Evaluation on basis of physical-chemical properties: No expected damaging effects to aquatic organisms.

**Effects in sewage treatment plants (bacteria toxicity: respiration-/reproduction inhibition):**

According to current knowledge adverse effects on water purification plants are not expected.

**12.4 Additional information****Other harmful effects**

none known

**General information:**

No environmental problems expected if handled and treated in accordance with standard industrial practices and local regulations where applicable.

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

Material that cannot be used or chemically reprocessed should be disposed of at an approved facility in accordance with any applicable governmental regulations.

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

Containers should be completely emptied before recycling as specified in government regulations. Empty containers should be sent to an approved recycling facility.

**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**

**Material Safety Data Sheet**

---

Material: 60006597                      **ELASTOSIL® R 401/40**  
SVersion: 1.0 (US)                      Date of print: 11/02/2009                      Date of last alteration: 12/08/2008

---

**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 any TSCA 12(b) regulated 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 313 Chemicals:**

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

**HAPS (Hazardous Air Pollutants):**

This material does not contain any hazardous air pollutants.

**15.2 U.S. State regulations****California Proposition 65 Carcinogens:**

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

**California Proposition 65 Reproductive Toxins:**

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

**Massachusetts Substance List:**

112945-52-5    Silica, amorphous, fumed

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

112945-52-5    Silica, amorphous, fumed

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

112945-52-5    Silica, amorphous, fumed

**15.3 Canadian regulations**

This product has been classified in accordance with the Hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

**WHMIS Hazard Classes:**

None.

**DSL Status:**

This material or its components are listed on the Canadian Domestic Substances List.

**Canadian Ingredient Disclosure List:**

112945-52-5    Silica, amorphous, fumed

**15.4 Other international regulations****EU Risk Phrases:**

R-Phrase	Description
R-	-

**EU Safety Phrases:**

S-Phrase	Description
S-	-

**Material Safety Data Sheet**Material: 60006597 ELASTOSIL® R 401/40  
S

Version: 1.0 (US) Date of print: 11/02/2009 Date of last alteration: 12/08/2008

**Details of international registration status**

Listed on or in accordance with the following inventories:

ECL - Korea  
AICS - Australia  
DSL - Canada  
ENCS - Japan  
PICCS - Philippines  
TSCA - USA  
EINECS - Europe  
IECSC - China**16 Other information****16.1 Additional information:**

This Material Safety Data Sheet (MSDS) meets the requirements of the Federal OSHA Hazard Communication Standard (29 CFR 1910.1200). This product has been classified according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR. 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 MSDS 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.

**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)