

Material Safety Data Sheet

Material: 60040552 ELASTOSIL® M 4511 US (TAP Super Flexible Silicone RTV)

Version: 1.1 (US) Date of print: 09/01/2006 Date of last alteration: 12/23/2005

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

Commercial product name: ELASTOSIL® M 4511 (TAP Super Flexible Silicone RTV)
Product group: Elastosil®

1.2 Company/undertaking identification:

Manufacturer/distributor: Wacker Chemical Corporation
3301 Sutton Road
Adrian, MI 49221-9397
USA

Customer information: Customer Care Center:
Tel (517) 264-8240, Fax (517) 264-8740
Hours of operation:
Monday - Friday, 8 am to 5 pm (eastern standard time)
Corporate website www.wackersilicones.com

Emergency telephone no. (24h): (517) 264-8500
Transportation emergency: (800) 424-9300 (CHEMTREC, USA)
(703) 527-3887 (CHEMTREC, international)
(613) 996-6666 (CANUTEC, Canada)

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

2 Composition/information on ingredients

This material does not contain any OSHA or WHMIS reportable hazardous ingredients.

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

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

Canadian WHMIS Classification: None.

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 known skin hazards.

Inhalation:

No known respiratory hazards.

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Mucous membrane contact:

No known mucous membrane hazards.

Ingestion:

No known ingestion hazards.

Additional information on acute health effects:

This product contains methylpolysiloxane which can release formaldehyde vapors when heated to temperatures over 302 °F in air. The amount of formaldehyde generated will depend on the quantity and surface area of the material, the processing temperature, and the duration and nature of the process. Formaldehyde is a potential cancer hazard, causes irritation and sensitization of the skin and respiratory system, causes eye and throat irritation, and is acutely toxic. Safe conditions of use can be ensured by monitoring and controlling vapor concentrations in accordance with 29 CFR 1910.1048. Due to the physical nature of this material, exposure to hazardous ingredients is not anticipated. Ingestion of large amounts may cause intestinal blockage. Ingestion is not expected during industrial use.

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:

This material does not contain any reproductive toxins at or above OSHA or WHMIS reportable levels. This material does not contain any reportable carcinogenic ingredients. Exposure to carcinogens cannot occur under normal conditions of use or during foreseeable emergencies.

See Section 11 for Toxicological Information, if any.

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

Get medical attention if irritation occurs or if breathing becomes difficult.

4.2 After inhalation:

No special treatment is required.

4.3 After contact with the skin:

Wash with soap and water.

4.4 After contact with the eyes:

No special treatment is required.

4.5 After swallowing:

No special treatment is required.

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

Flash point.....: > 200 °C (> 392 °F)

Method

(Not Specified)

Ignition temperature: 465 °C (869 °F)

(Not Specified)

5.2 Fire and explosion hazards:

This material will burn with a lazy smoldering flame. This material does not present any unusual fire or explosion hazards.

5.3 Recommended extinguishing media:

AFFF alcohol compatible foam. Carbon dioxide. Dry chemical. Water - Use Fine Spray or Fog. Water may be used to cool tanks and structures adjacent to the fire.

5.4 Unsuitable extinguishing media:

None.

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

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

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5.6 Fire fighting procedures:

Full turn-out gear and Self Contained Breathing Apparatus (SCBA) should be worn when fighting large fires.

6 Accidental release measures**6.1 Precautions:**

Secure the area. Obtain appropriate PPE, supplies, and equipment prior to attempting any response.

HAZWOPER PPE Level: D

6.2 Containment:

No special measures required.

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.

7 Handling and storage**7.1 Handling****Precautions for safe handling:**

Avoid contact with eyes, skin and clothing. Keep container closed when not in use. This product contains methylpolysiloxane which can release formaldehyde vapors when heated to temperatures over 302 °F in air.

Precautions against fire and explosion:

No special precautions against fire and explosion required.

7.2 Storage**Further information for storage:**

Store in a dry and cool place.

8 Exposure controls and personal protection**8.1 Engineering controls****Ventilation:**

No special ventilation required.

Local exhaust:

No special ventilation required.

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.

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:

Follow standard industrial hygiene practices when using this material. 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 - suspension
Colour.....: white
Odour.....: mild

9.2 Safety parameters

Flash point.....: > 200 °C (> 392 °F)

Method

(Not Specified)

Ignition temperature: 465 °C (869 °F)

(Not Specified)

Density.....: 1.22 g/cm³

Water solubility / miscibility.....: virtually insoluble

Viscosity (dynamic).....: 25000 mPa*s

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

Stable under normal conditions of use.

10.1 Conditions to avoid:

Although this product is not expected to react with commonly used materials of construction and process equipment, it is advised that any rubber or plastic items such as hoses and gaskets be tested prior to large scale processing to ensure there is no degradation of performance or durability.

10.2 Materials to avoid:

Relatively nonreactive. No significant reactivity with water.

10.3 Hazardous decomposition products:

None

10.4 Further information:

Hazardous polymerization cannot occur.

11 Toxicological information**11.1 General information:**

Toxicological testing has not been conducted with this material.

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

Biologically not degradable.

Further information:

Silicone content: Elimination by adsorption to activated sludge.

12.2 Behaviour in environmental compartments**Further information:**

Bioaccumulation is not expected to occur.

12.3 Ecotoxicological effects:

According to past experience toxicity to fish is improbable.

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**General information:**

In cross-linked state not soluble in water. Easily separable from water by filtration.

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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. State and local regulations may be more stringent than Federal regulations.

13.2 Packaging disposal**Recommendation:**

Uncleaned containers should not be reused to hold another material due to the potential for reaction between residual product and incompatible materials. 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
Corrosive to Steel or Aluminum: Not corrosive to steel or aluminum.

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 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 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):

108-88-3	Toluene
123-91-1	1,4-Dioxane
75-21-8	Ethylene oxide
71-43-2	Benzene

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

14808-60-7	Quartz
123-91-1	1,4-Dioxane
75-21-8	Ethylene oxide
71-43-2	Benzene

California Proposition 65 Reproductive Toxins:

108-88-3	Toluene
75-21-8	Ethylene oxide
71-43-2	Benzene

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Massachusetts Substance List:13463-67-7 Titanium dioxide
14808-60-7 Quartz**New Jersey Right-to-Know Hazardous Substance List:**13463-67-7 Titanium dioxide
14808-60-7 Quartz**Pennsylvania Right-to-Know Hazardous Substance List:**13463-67-7 Titanium dioxide
14808-60-7 Quartz**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:

14808-60-7 Quartz

15.4 Other international regulations**Details of international registration status**

Listed on the following inventories:

EINECS - Europe
ENCS - Japan
ECL - Korea
AICS - Australia**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.

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 Limitppm - 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

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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)