

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Silicone rubber ELASTOSIL M 4601 A (415133-X)

Print date: 22.12.2014

Product code: A415133

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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Silicone rubber ELASTOSIL M 4601 A (415133-X)

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

Use of the substance/mixture

pourable addition-curing high-extensibility double-constituent silicone rubber

1.3. Details of the supplier of the safety data sheet

Company name:	R&G Faserverbundwerkstoffe GmbH	
	Composite Technology	
Street:	Im Meißel 7 - 13	
Place:	D-71111 Waldenbuch	
Post-office box:	1145	
	D-71107 Waldenbuch	
Telephone:	+49 (0)7157 5304-60	Telefax: +49 (0)7157 5304-70
e-mail:	info@r-g.de	
Internet:	www.r-g.de	
Responsible Department:	Management	

1.4. Emergency telephone number: Vergiftungs-Informationen-Zentrale Freiburg
Tel: +49 (0)761 19240

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

There is no obligatory labelling requirement according to the regulations covering preparations 1999/45/EC.

Classification according to Regulation (EC) No. 1272/2008 [CLP]

This mixture is not classified as hazardous according to Regulation (EC) No. 1272/2008.

2.2. Label elements

Additional advice on labelling

not classified as dangerous under the hazardous substances laws (GefStoffV)/EC Directives

2.3. Other hazards

risk of oxyhydrogen gas formation with water, alcohols, acids, metal salts, amines, or alkalis

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

polydimethyl siloxane with functional groups, auxiliaries for addition curing

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Hazardous components

EC No	Chemical name	Quantity
CAS No	Classification according to Directive 67/548/EEC	
Index No	Classification according to Regulation (EC) No. 1272/2008 [CLP]	
REACH No		
238-878-4	Quartz	>1 – <5 %
14808-60-7	Xn - Harmful R48/20	
	STOT RE 2; H373	

Full text of R-, H- and EUH-phrases: see section 16.

SECTION 4: First aid measures**4.1. Description of first aid measures****General information**

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

After inhalation

Provide fresh air.

After contact with skin

Remove mechanically (e.g. dab away using wadding or cellulose material) then thoroughly wash the affected skin with a mild cleansing agent and water. Consult a doctor when there are visible signs of change on the skin or other complaints (if possible present the label or safety data sheet).

After contact with eyes

Immediately rinse with copious amounts of water. Consult a doctor when irritation persists.

After ingestion

Let water be drunken in little sips (dilution effect). Do NOT induce vomiting.

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**

alcohol resistant foam. Carbon dioxide (CO₂). Sand. Water. Extinguishing powder.
The foam carpet may trap hydrogen gas. Accordingly, remove all sources of ignition during cleaning and absorbing work.

Unsuitable extinguishing media

Water. Extinguishing powder. halons

5.3. Advice for firefighters

Wear breathing apparatus with own air supply.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Keep unprotected persons at a safe distance. Wear personal protection equipment. Special skid risk by leaking/spilling product.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Seal off leakage at the source if this is possible without risk.

6.3. Methods and material for containment and cleaning up

Methods of cleaning - small amounts of spilled material: Suitable material for taking up: Kieselguhr.
Methods of cleaning - large amounts of spilled material: Liquids can be removed with pneumatic or

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properly configured suction equipment or pumps. Use vented container receptacles. Remove any residual loose lining with detergent/soap solution or another biodegradable cleaning agent. To improve grip, apply sand or other inert, grainy materials.

6.4. Reference to other sections

Remove all sources of ignition. Treat the recovered material as prescribed in the section on waste disposal. Material designated for disposal must be kept away from incompatible substances under § 10.2. Do not mix contaminated material with clean material.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Open and handle container with care. Wear personal protection equipment. Work in cleared areas - away from other materials, activities, and ignition sources. Slowly open bulging receptacles to release excess pressure gradually. Ventilate adequately storage and work rooms. Seal receptacles firmly when not in use. Keep away from incompatible substances under § 10.2. If possible, inertise apparatus and fill receptacles with nitrogen to reduce oxygen content.

Advice on protection against fire and explosion

Product can release hydrogen. Potentially explosive mixtures can form in partially emptied receptacles. Keep away from sources of ignition. - No smoking. Keep away from naked flames, heat sources, and sparks. Take precautionary measures against static discharge.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Unsuitable materials for Container: Glass.

Advice on storage compatibility

Do not store together with: alkaline substances (e.g. ammoniac, amines, etc.), oxidising agents, strong acids

Further information on storage conditions

Keep in well sealed receptacles at a cool, dry location. Ventilate adequately storage and work rooms.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Additional advice on limit values

unknown

8.2. Exposure controls

Protective and hygiene measures

When using do not eat, drink, smoke or sneeze. Wash hands before breaks and after work.

Eye/face protection

Wear goggles.

Hand protection

Wear protective gloves.
Suitable material: Butyl rubber. PVC (Polyvinyl chloride).

Environmental exposure controls

Do not let the product enter the groundwater, open water, or the sewerage system.

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SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state:	liquid
Colour:	white
Odour:	odourless

Test method**Changes in the physical state**

Point of decomposition::	> 200 °C
Flash point:	> 294 °C ISO 2592
Ignition temperature:	> 450 °C DIN 51794
Density (at 20 °C):	bei 1013 hPa 1,13 g/cm ³ DIN 51757
Water solubility: (at 20 °C)	virtually insoluble
Viscosity / dynamic: (at 20 °C)	25.000 mPa·s BROOKFIELD

9.2. Other information

According to our knowledge the spontaneous ignition temperature of polymer siloxanes with SiH compounds is above 240 °C. On a catalysing substrate ignition can occur at a much lower temperature. This applies to porous or fibrous substances including those with alkaline surface such as e.g. thermal or cement-like insulating materials. Explosion limits for released hydrogen 4-75.6%vol

SECTION 10: Stability and reactivity**10.1. Reactivity**

stable under normal conditions Contact with incompatible substances can cause the product to release quickly large quantities of hydrogen.

10.2. Chemical stability

stable under normal conditions Contact with incompatible substances can cause the product to release quickly large quantities of hydrogen.

10.3. Possibility of hazardous reactions

stable under normal conditions Contact with incompatible substances can cause the product to release quickly large quantities of hydrogen.

10.4. Conditions to avoid

Stabile under the specified storage conditions. Contact with incompatible substances can cause the product to release quickly large quantities of hydrogen. Keep away from sources of ignition. - No smoking. Keep away from naked flames, heat sources, and sparks. Contact with contaminated pipelines and receptacles or with corroded or rusty receptacles may lead to increased formation of hydrogen.

10.5. Incompatible materials

reaction with strong acids, alkaline substances, amines, and oxidising agents to form hydrogen

10.6. Hazardous decomposition products

releases ignitable hydrogen gas Measurements have shown that oxidative decomposition at temperatures greater than about 150 °C releases a small quantity of formaldehyde.

SECTION 11: Toxicological information**11.1. Information on toxicological effects**

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Additional information on tests

No damaging effects when the product is handled properly.

SECTION 12: Ecological information**12.1. Toxicity**

unknown

12.2. Persistence and degradability

not biodegradable separation through sedimentation

12.3. Bioaccumulative potential

unknown

12.4. Mobility in soil

insoluble in water

12.6. Other adverse effects

unknown

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Advice on disposal**

The product must be disposed of by an approved company in accordance with the local government regulations. Keep away from incompatible substances under § 10.2. The waste receptacles must be fitted with pressure relief facilities like e.g. vented seals.

Contaminated packaging

Noncleanable packaging must be disposed of like the substance. Cleaned containers may be recycled. Receptacles may contain hazardous quantities of hydrogen. Owing to a potential reaction between the product and an incompatible material do not use uncleaned receptacles and do not fill these with other materials.

SECTION 14: Transport information**Land transport (ADR/RID)****14.3. Transport hazard class(es):** No dangerous good in sense of these transport regulations.**Inland waterways transport (ADN)****14.3. Transport hazard class(es):** No dangerous good in sense of these transport regulations.**Marine transport (IMDG)****14.3. Transport hazard class(es):** No dangerous good in sense of these transport regulations.**Air transport (ICAO)****14.3. Transport hazard class(es):** No dangerous good in sense of these transport regulations.**Other applicable information**

postal dispatch without restriction

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****National regulatory information**

Water contaminating class (D): 1 - slightly water contaminating

Additional information

not applicable

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SECTION 16: Other information

Relevant R-phrases (Number and full text)

48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.

Relevant H- and EUH-phrases (Number and full text)

H373 May cause damage to organs through prolonged or repeated exposure.

Further Information

All information, recommendations, and advice on the part of R&G Faserverbundwerkstoffe GmbH are published to the best of our knowledge and belief. They are noncommittal and contain neither explicit nor tacit assurance or warranty of particular properties. The values specified for properties are typical figures. Recommendations or advice serve to describe our products and possible applications in a general or exemplary, but not specifically individual manner. In the course of the constant technical advancement and improvement of our products there may be changes to the characteristic values, copy, and diagrams; no specific reference is made to any such change. Owing to our products' wide and highly diverse range of potential applications far beyond any of our attempts to analyse, the customer alone is responsible for examining our products' suitability for the respective processes and purposes and their respective processibility. All and any protective rights and the applicable laws, terms, and conditions must be observed by the buyer or user of our products at their own responsibility. Publication is not a licence and does not intend the violation of any patents.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)