

Safety Data Sheet

according to Regulation (EU) No. 1907/2006

Silicone rubber ELASTOSIL M 4601 A (415133-X)

Print date : 15.05.2009

Product code : 415133-A

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1. Identification of the substance/preparation and of the company/undertaking

Identification of the substance or preparation

Silicone rubber ELASTOSIL M 4601 A (415133-X)

Use of the substance/preparation

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

Company/undertaking identification

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 :	+49-7157-530460	Telefax : +49-7157-530470
e-mail :	info@r-g.de	
Internet :	www.r-g.de	
Inquiry office :	Management	
Emergency telephone :	poison information centre	

2. Hazards identification

Classification

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

Explication of special hazards for human health and environment

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

3. Composition/information on ingredients

Chemical characterization (Mixture)

polydimethyl siloxane with functional groups, auxiliaries for addition curing

4. First aid measures

General information

In case of accident or if you feel unwell, seek medical advice immediately (show this label 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 cleanser 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 swallowed in little sips (dilution effect). Do not induce vomiting.

5. Fire-fighting measures

Suitable extinguishing media

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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.

Extinguishing media which must not be used for safety reasons

Water. Extinguishing powder. halons

Special protective equipment for fire-fighters

Wear breathing apparatus with own air supply.

6. Accidental release measures

Personal precautions

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

Environmental precautions

Do not empty into drains or the aquatic environment. Seal off leakage at the source if this is possible without risk.

Methods for cleaning up/taking up

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

Additional information

Remove from all sources of ignition. Treat the assimilated material according to 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.

7. Handling and storage

Handling

Advice on safe handling

Handle open 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 discharges.

Storage

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.

8. Exposure controls/personal protection

Exposure limit values

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Additional advice on control parameters

unknown

Exposure controls

Protective and hygiene measures

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

Hand protection

Wear protective gloves.

Qualified materials: Butyl rubber. PVC (Polyvinyl chloride).

Eye protection

Wear goggles.

Environmental exposure controls

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

9. Physical and chemical properties

General information

Physical state : liquid
 Colour : white
 Odour : odourless

Important health, safety and environmental information

Changes in the physical state

		Test method
Point of decomposition: :	> 200 °C	
Flash point :	> 294 °C	ISO 2592
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

Other information

Ignition temperature : > 450 °C DIN 51794

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

10. Stability and reactivity

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.

Materials to avoid

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

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.

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11. Toxicological information

Additional information on tests

No damaging effects when the product is handled properly.

12. Ecological information

Ecotoxicity

unknown

Mobility

insoluble in water

Persistence and degradability

not biodegradable separation through sedimentation

Bioaccumulative potential

unknown

Other adverse effects

unknown

13. Disposal considerations

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.

14. Transport information

Land transport (ADR/RID)

ADR/RID class :

Not a hazardous material with respect to transportation regulations.

Inland waterways transport

ADNR class :

Not a hazardous material with respect to transportation regulations.

Marine transport

IMDG code :

Not a hazardous material with respect to transportation regulations.

Air transport

ICAO/IATA-DGR :

Not a hazardous material with respect to transportation regulations.

Further Information

postal dispatch without restriction

15. Regulatory information

Labelling

Additional advice on labelling

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

National regulatory information

Water contaminating class (D) :

1 - slightly water contaminating

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Additional information

not applicable

16. Other information**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.)