

**Safety Data Sheet (1907/2006/EC)**

Material: 60004618

WACKER® RTV-S 691 B

Version: 2.2 (GB)

Date of print: 18.02.2015

Date of last alteration: 27.05.2014

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier****Commercial product name:** WACKER® RTV-S 691 B**1.2 Relevant identified uses of the substance or mixture and uses advised against**

Use of substance / preparation:

Industrial.

Raw material for: elastomer products .

This product is a polymer, which is exempted from registration according to (EC) regulation 1907/2006, article 2.

**1.3 Details of the supplier of the safety data sheet**

Manufacturer/distributor:

Wacker Chemie AG

Street/POB-No.:

Hanns-Seidel-Platz 4

State/postal code/city:

D 81737 München

Telephone:

+49 89 6279-0

Telefax:

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Information about the Safety Data Sheet:

Telephone

+49 8677 83-4888

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+49 8677 886-9722

eMail

WLCP-MSDS@wacker.com

**1.4 Emergency telephone number****Emergency Information:****Plant fire brigade****+49 8677 83-2222****Emergency Information (internat.):****National Response Center****+49 621 60-43333****SECTION 2: Hazards identification****2.1 Classification of the substance or mixture**

Not a hazardous substance or mixture.

**Classification (67/548/EEC, 1999/45/EC):**

Not a hazardous substance or mixture.

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

No labeling according to GHS required.

**Labelling (67/548/EEC, 1999/45/EC):**

No labeling required.

**2.3 Other hazards**

Danger of oxyhydrogen gas formation with water, alcohols, acids, metallic salts, amines and alkalis.

**SECTION 3: Composition/information on ingredients****3.1 Substances****3.1.1 Chemical characterization (substance)**

Polysiloxane with functional groups + auxiliary

**3.2 Mixtures**

not applicable

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

In case of accident or if you feel unwell seek medical advice (show label or SDS where possible).

**After inhalation:**

Provide fresh air.

**After contact with the skin:**

Wash with plenty of water or water and soap. In the event of a visible skin change or other complaints, seek medical advice (show label or SDS where possible).

**After contact with the eyes:**

Rinse immediately with plenty of water. Seek medical advice in case of continuous irritation.

**After swallowing:**

Give several small portions of water to drink. Do not induce vomiting.

**4.2 Most important symptoms and effects, both acute and delayed**

Any relevant information can be found in other parts of this section.

**4.3 Indication of any immediate medical attention and special treatment needed**

Further toxicology information in section 11 must be observed.

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

alcohol-resistant foam , carbon dioxide , sand . Hydrogen gas can become trapped under foam blankets, so sources of ignition must be eliminated during the clean-up and recovery process.

**Extinguishing media which must not be used for safety reasons:**

water , extinguishing powder , halones .

**5.2 Special hazards arising from the substance or mixture**

Hazardous decomposition products: benzene .

**5.3 Advice for firefighters****Special protective equipment for fire fighting:**

Use respiratory protection independent of recirculated air.

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

Secure the area. Wear personal protection equipment (see section 8). If material is released indicate risk of slipping.

**6.2 Environmental precautions**

Prevent material from entering surface waters, drains or sewers and soil.

**6.3 Methods and material for containment and cleaning up**

Remove mechanically or with liquid-binding material. Use vented recovery containers. 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.

**Further information:**

Eliminate all sources of ignition. Material designated for disposal must be segregated from incompatible substances or materials specified in Sect. 10. Do not blend contaminated material with uncontaminated material. Observe notes under section 7.

**6.4 Reference to other sections**

Relevant information in other sections has to be considered. This applies in particular for information given on personal protective equipment (section 8) and on disposal (section 13).

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**SECTION 7: Handling and storage****7.1 Precautions for safe handling****General information:**

Stir thoroughly before use or catalysing.

**Precautions for safe handling:**

Use caution when opening any bulging container. Wear all appropriate protective equipment. Work in an open area away from other materials, operations, and sources of ignition. Open slowly to allow a gradual release of pressure. Ensure adequate ventilation. Keep container closed when not in use. Keep away from incompatible substances in accordance with section 10. Where possible, inert process equipment and blanket vessels, tanks and containers with nitrogen to reduce the available oxygen level. Contact WACKER for additional publications on the safe Handling of SiH Products.

**Precautions against fire and explosion:**

Product can release hydrogen. In partly emptied containers formation of explosive mixtures is possible. Keep away from sources of ignition and do not smoke. Keep away from open flames, heat and sparks. Take precautionary measures against electrostatic charging.

**7.2 Conditions for safe storage, including any incompatibilities****Conditions for storage rooms and vessels:**

none known

**Advice for storage of incompatible materials:**

Do not store with: basic substances (e.g. alkalis, ammonia, amines) , oxidizing agents , strong acids .

**Further information for storage:**

Protect against moisture. Store in a dry and cool place. Store container in a well ventilated place.

**7.3 Specific end use(s)**

No data available.

**SECTION 8: Exposure controls/personal protection****8.1 Control parameters****Maximum airborne concentrations at the workplace:**

CAS No.	Material	Type	mg/m <sup>3</sup>	ppm	Dust fract.	Fibre/m <sup>3</sup>
	Aerosol - respirable fraction		10,0			

The aerosol limit specified is a recommendation should aerosol be formed during processing.

**8.2 Exposure controls****8.2.1 Exposure in the work place limited and controlled****General protection and hygiene measures:**

Do not eat, drink or smoke when handling. Wash hands at the end of work and before eating.

**Personal protection equipment:****Respiratory protection**

not required .

**Hand protection**

Recommendation: Protective gloves made of butyl rubber , protective gloves coated with neoprene , PVC gloves . Gloves suitable for up to 60 minutes' use. The selection of appropriate gloves not only depends on the material, but also on other quality characteristics, and may vary depending on the manufacturer. Please observe information from your glove supplier in terms of permeability and breakthrough time.

**Eye protection**

protective goggles .

**Skin protection**

protective clothing .

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**8.2.2 Exposure to the environment limited and controlled**

Prevent material from entering surface waters and soil.

**8.3 Further information for system design and engineering measures**

Observe information in section 7.

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

Physical state / form.....: liquid  
Colour .....: colourless  
Odour .....: odourless

**Important information about the protection of health, safety and the environment:**

<b>Property:</b>	<b>Value:</b>	<b>Method:</b>
Melting point / melting range .....	not determined	
Boiling point / boiling range .....	not applicable	
Flash point.....	> 250 °C	(DIN 51376)
Ignition temperature .....	> 400 °C	(DIN 51794)
Lower explosion limit (LEL) .....	not applicable	
Upper explosion limit (UEL).....	not applicable	
Vapour pressure.....	not applicable	
Density .....	1 g/cm <sup>3</sup> at 20 °C	
Water solubility / miscibility.....	virtually insoluble at 20 °C	
pH-Value .....	not applicable	
Viscosity (dynamic) .....	200 - 240 mPa.s at 20 °C	

**9.2 Other information**

According to previous experience autoignition of SiH containing products on a catalytically active surface may occur at a much lower temperature than expected. This applies to porous or fibrous substances including those with alkaline surfaces, such as thermal insulation and cementaceous insulating materials. Explosion limits for released hydrogen: 4 - 75.6%(V). Re 9.2 pH Value: Product displays neutral reaction.

Thermal decomposition.....: &gt; 200 °C

**SECTION 10: Stability and reactivity****10.1 – 10.3 Reactivity; Chemical stability; Possibility of hazardous reactions**

Stable under normal conditions of use. In contact with incompatible substances this material may quickly generate a large volume of flammable hydrogen gas.

Relevant information can possibly be found in other parts of this section.

**10.4 Conditions to avoid**

moisture . Heat, open flames, and other sources of ignition. Contact with contaminated piping or vessels or with corroded and rusty containers can increase the rate of hydrogen formation. Observe information in section 7.

**10.5 Incompatible materials**

Reacts with: acids , basic substances (e.g. alkalis, ammonia, amines) , alcohols , water , moisture , oxidizing agents , catalyst . Reaction causes the formation of: hydrogen .

**10.6 Hazardous decomposition products**

Releases flammable hydrogen gas. Measurements have shown the formation of small amounts of benzene at temperatures above about 180 °C (356 °F). Measurements have shown the formation of small amounts of formaldehyde at temperatures above about 150 °C (302 °F) through oxidation.

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**SECTION 11: Toxicological information****11.1 Information on toxicological effects****11.1.1 Acute toxicity****Assessment:**

Based on the available data acute toxic effects are not expected after single oral exposure. Based on the available data acute toxic effects are not expected after single dermal exposure.

**Product details:**

Route of exposure	Result/Effect	Species/Test system	Source
oral	LD <sub>50</sub> : > 2000 mg/kg No mortality with the given dose.	rat	test report
oral	LD <sub>50</sub> : > 15000 mg/kg	rat	Conclusion by analogy
dermal	LD <sub>50</sub> : > 2000 mg/kg No mortality with the given dose.	rabbit	test report

**11.1.2 Skin corrosion/irritation****Assessment:**

Based on the available data a clinically relevant skin irritation hazard is not expected.

**Product details:**

Result/Effect	Species/Test system	Source
not irritating	rabbit	Conclusion by analogy

**11.1.3 Serious eye damage / eye irritation****Assessment:**

Based on the available data a clinically relevant eye irritation hazard is not expected.

**Product details:**

Result/Effect	Species/Test system	Source
not irritating	rabbit	Conclusion by analogy

**11.1.4 Respiratory or skin sensitization****Assessment:**

Based on the available data a sensitization reaction is not expected from this product.

**Product details:**

Route of exposure	Result/Effect	Species/Test system	Source
dermal	not sensitizing	guinea-pig; Magnusson-Kligman	Conclusion by analogy OECD 406

**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.

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**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:**

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

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

Evaluation in analogy to similar product. No expected damaging effects to aquatic organisms. According to current knowledge adverse effects on water purification plants are not expected.

**12.2 Persistence and degradability****Assessment:**

Silicone content: biologically not degradable. Elimination by adsorption to activated sludge.

**12.3 Bioaccumulative potential****Assessment:**

Bioaccumulation is not expected to occur.

**12.4 Mobility in soil****Assessment:**

Forms thin oil film on surface of water. Absorbed by floating particles. Separation by sedimentation.

**12.5 Results of PBT and vPvB assessment**

No data available.

**12.6 Other adverse effects**

none known

**SECTION 13: Disposal considerations****13.1 Waste treatment methods****13.1.1 Material****Recommendation:**

Material that cannot be used or chemically reprocessed should be disposed of at an approved facility in accordance with any applicable governmental regulations. Material designated for disposal must be segregated from incompatible substances or materials specified in Sect. 10. Wastes of this material should not be mixed with other wastes. Provide measures such as vented bungs to ensure pressure relief in the waste containers.

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**13.1.2 Uncleaned packaging**

Recommendation:

Containers may contain hazardous quantities of hydrogen gas. 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. Containers should be completely emptied before recycling as specified in government regulations.

**13.1.3 Waste Disposal Legislation Ref.No.(EC)**

It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

**SECTION 14: Transport information****14.1 – 14.4 UN number; UN proper shipping name; Transport hazard class(es); Packing group****Road ADR:**

Valuation .....: Not regulated for transport

**Railway RID:**

Valuation .....: Not regulated for transport

**Transport by sea IMDG-Code:**

Valuation .....: Not regulated for transport

**Air transport ICAO-TI/IATA-DGR:**

Valuation .....: Not regulated for transport

**14.5 Environmental hazards**

Hazardous to the environment: no

**14.6 Special precautions for user**

Air transport: Due to safety reasons no air transport of inner packagings &gt; 1kg!

Relevant information in other sections has to be considered.

**14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Bulk transport in tankers is not intended.

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

National and local regulations must be observed.

For information on labelling please refer to section 2 of this document.

**Relevant regulations:**

SI 2002/1689: CHIP Regulations 2002

SI 2002/2677: COSHH Regulations 2002

SI 1999/3242: Management of Health & Safety at Work Regulations 1999  
Health & Safety at Work Act 1974

SI 1993/1643: Environmental Protection Act 1993 &amp; Subsidiary Regulations.

Other national and local measures relating to the workplace, pollution control, environmental protection and waste control.

**15.2 Chemical safety assessment**

A chemical safety assessment according to (EC) regulation 1907/2006 (REACH) has not been carried out for this product.

**15.3 Details of international registration status**

Listed on or in accordance with the following inventories:

Japan .....: **ENCS** (Handbook of Existing and New Chemical Substances)United States of America (USA).....: **TSCA** (Toxic Substance Control Act Chemical Substance Inventory)Australia .....: **AICS** (Australian Inventory of Chemical Substances)

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South Korea (Republic of Korea) ..... : **ECL** (Existing Chemicals List)  
People's Republic of China ..... : **IECSC** (Inventory of Existing Chemical Substances in China)

**SECTION 16: Other information**

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**16.1 Material**

The details in this document are based on the state of our knowledge at the time of revision. They do not constitute an assurance of the described product properties in terms of statutory warranty requirements.

The providing of this document to a recipient does not relieve the recipient of his or her responsibility toward compliance with all laws and stipulations applicable to the product. This applies in particular to the further sale or distribution of the product or substances or items containing the product, in other jurisdictions and with regard to the protection of third-party intellectual property rights. If the described product is processed or mixed with other substances or materials, the details stated in this document cannot be conferred to the resultant new product unless this has been expressly mentioned. If the product is repackaged, the recipient is obligated to additionally provide the required safety-related information.

All deliveries are subject to the WACKER SILICONES Health Care Policy, which is available at [www.wacker.com](http://www.wacker.com).

**16.2 Further information:**

Commas appearing in numerical data denote a decimal point. Vertical lines in the left-hand margin indicate changes compared with the previous version. This version supersedes all previous versions.

- End of Safety Data Sheet -