

Safety Data Sheet

Material: 60004724 SILRES® REN 60

Version: 1.5 (REG_EUROPE) Date of print: 26.12.2007 Date of last alteration: 06.08.2007

1 Identification of the substance/preparation and company**1.1 Name of substance/preparation**

Commercial product name: SILRES® REN 60

1.2 Use of substance / preparation:Industrial.
Bonding agent**1.3 Company name**Manufacturer/distributor: Wacker Chemie AG
Street/POB-No.: Hanns-Seidel-Platz 4
State/postal code/city: D 81737 München
Telephone: +498962790
Telefax: +498962791770

Information about the Safety Data Sheet:	Telephone	+49/(0) 8677/83-4888
	Telefax	+49/8677/83-5590
	eMail	WLCP-MSDS@wacker.com

1.4 Emergency telephone number

Emergency Information (German):	Works Fire Brigade	+49/(0) 8677/83-2222
Emergency Information (internat.):	National Response Center	+49/(0) 621/60-43333

2 Hazards identification**2.1 Classification:**

R-Phrase	Description
R10	Flammable.
R20/21	Harmful by inhalation and in contact with skin.
R38	Irritating to skin.

3 Composition/information on ingredients**3.1 Chemical characterization (preparation):**

Chemical characteristics
Alkyl/phenylsilicone resin in xylene

3.2 Hazardous ingredients:

EC-No.	CAS No.	Material	Content %		Warning Label (EC)	
			from	until	Symbol	R-Phrases
202-849-4	100-41-4	Ethyl benzene		<10,0	F, Xn	11-20
215-535-7	1330-20-7	Xylene, mixed isomers	>25,0		Xn	10-20/21-38

R-Phrase	Description
R11 R20	Highly flammable. Harmful by inhalation.
R10 R20/21 R38	Flammable. Harmful by inhalation and in contact with skin. Irritating to skin.

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

Take persons to a safe place. Observe self-protection for first aid.

4.2 After inhalation:

Keep the patient calm. If unconscious place in stable sideways position. Protect against loss of body heat. Seek medical advice and clearly identify substance.

Safety Data Sheet

Material: 60004724

SILRES® REN 60

Version: 1.5 (REG_EUROPE)

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4.3 After contact with the skin:

Remove contaminated or soaked clothing. Immediately rinse with plenty of soap and water. In serious cases, use emergency shower immediately. In the event of a visible skin change or other complaints, seek medical advice (show label or SDS where possible).

4.4 After contact with the eyes:

Rinse immediately with plenty of water for 10-15 minutes. Keep eyelids well open to rinse the whole eye surface and eyelids with water. Seek medical advice in case of continuous irritation.

4.5 After swallowing:

If conscious, give several small portions of water to drink. Do not induce vomiting. Seek medical advice and clearly identify substance.

5 Fire-fighting measures**5.1 Suitable extinguishing media:**

water mist , extinguishing powder , alcohol-resistant foam , carbon dioxide .

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

water jet .

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

Heavy soot formation during combustion.

5.4 Special protective equipment for fire fighting:

Use respiratory protection independent of recirculated air.

6 Accidental release measures**6.1 Personal precautions:**

Wear personal protection equipment (see section 8). Avoid contact with eyes and skin. Avoid inhaling mists and vapours. If material is released indicate risk of slipping.

6.2 Environmental precautions:

Prevent material from entering surface waters, drains or sewers and soil. Contain any fluid that runs out using suitable material (e.g. earth). Retain contaminated water/extinguishing water. Dispose of in prescribed marked containers.

6.3 Methods for cleaning up:

Do not flush away with water. Take up mechanically and dispose of according to local/state/federal regulations. For small amounts: Absorb with a liquid binding material such as diatomaceous earth and dispose of according to local/state/federal regulations. Contain larger amounts and pump up into suitable containers. Exhaust vapours.

6.4 Further information:

Eliminate all sources of ignition.

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

Ensure adequate ventilation. Must be syphoned off in situ. Spilled substance increases risk of slipping.

Precautions against fire and explosion:

Vapours may form in closed rooms with air mixtures, leading to explosion in the presence of sources of ignition, even in empty, uncleaned vessels. Keep away from sources of ignition and do not smoke. Take precautionary measures against electrostatic charging. Cool endangered containers with water.

7.2 Storage**Conditions for storage rooms and vessels:**

none known

Safety Data Sheet

Material: 60004724 SILRES® REN 60

Version: 1.5 (REG_EUROPE) Date of print: 26.12.2007 Date of last alteration: 06.08.2007

Advice for storage of incompatible materials:

not applicable

Further information for storage:

Keep container tightly closed and store in a cool, well ventilated place.

8 Exposure controls and personal protection equipment**8.1 Exposure limits****Maximum airborne concentrations at the workplace:**

CAS No.	Material	Type	mg/m ³	ppm	Dust fract.	Fibre/m ³

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

Avoid contact with eyes and skin. Do not inhale gases/vapours/aerosols. Keep working clothes separately. Do not eat, drink or smoke when handling.

Personal protection equipment**Respiratory protection:**

gas mask filter ABEK . In case of long or strong exposure: positive pressure self contained breathing apparatus .

Hand protection:

protective gloves made of fluorinated rubber . Gloves suitable for up to 60 minutes' use.

Eye protection:

tight fitting protective goggles .

Skin protection:

protective clothing .

8.2.2 Exposure to the environment limited and controlled:

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

8.3 Further information for system design and engineering measures:

Observe information in section 7.

9 Physical and chemical properties**9.1 General information**Physical state / form.....: liquid
Colour.....: colourless
Odour.....: strong**9.2 Important information about the protection of health, safety and the environment****Method
(67/548/EEC) :**Melting point / melting range.....: not applicable
Boiling point / boiling range.....: 140 °C at 1013 hPa
Flash point.....: 25 °C (DIN 51755)
Ignition temperature: 510 °C (DIN 51794)
Lower explosion limit (LEL).....: approx. 1 Vol-%
Upper explosion limit (UEL).....: approx. 7,6 Vol-%
Vapour pressure.....: 8 hPa at 20 °C
Density.....: 1,05 g/cm³ at 20 °C (DIN 51757)
Water solubility / miscibility.....: virtually insoluble
pH-Value.....: not applicable
Viscosity (dynamic).....: 45 - 75 mPa.s at 20 °C**9.3 Other information**

Thermal decomposition.....: Decomposition begins at > 200 °C

Safety Data Sheet

Material: 60004724

SILRES® REN 60

Version: 1.5 (REG_EUROPE)

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Date of last alteration: 06.08.2007

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:

high temperatures

10.2 Materials to avoid:

oxidizing agents

10.3 Hazardous decomposition products:

If stored and handled in accordance with standard industrial practices and local regulations where applicable: none known. The following applies for the silicone content of the substance: Measurements have shown the formation of small amounts of formaldehyde at temperatures above about 150 °C (302 °F) through oxidation. Measurements have shown the formation of small amounts of benzene at temperatures above about 180 °C (356 °F).

11 Toxicological information**11.0 General information:**

Note indications of danger and safety advice (R- and S-phrases) in section 15.

11.1 Toxicological tests

Acute toxicity (LD50/LC50-values relevant to classification):

Exposition	Value/value range	Species	Source
oral	4300 mg/kg	rat	

Further information:

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11.2 Experience with man:

-

11.3 Further toxicological information:

Classification based on ingredients: Harmful by inhalation and in contact with skin. Irritating to skin. Organic solvent(s): May have a narcotic effect. Under direct influence on lungs (e.g. by aspiration) inflammation of the lungs possible. By eye contact: Irritation of mucous membranes may be possible.

12 Ecological information**12.1 Ecotoxicity**

Likelihood of toxic effect on aquatic organisms.

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

Do not introduce large amounts into purification plants.

12.2 Mobility

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12.3 Persistence and degradability

Biodegradation / further information:

Silicone content: Biologically not degradable. Organic solvent: Good biodegradability.

Further information:

Silicone content: Elimination by adsorption to activated sludge.

12.4 Bio-accumulation potential

No adverse effects expected.

Safety Data Sheet

Material: 60004724 SILRES® REN 60

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12.5 Other harmful effects

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12.6 Additional information

General information:

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13 Disposal considerations**13.1 Material****Recommendation:**

Dispose of according to regulations by incineration in a special waste incinerator. Observe local/state/federal regulations.

13.2 Uncleaned packaging**Recommendation:**

Completely discharge containers (no tear drops, no powder rest, scraped carefully). Containers may be recycled or re-used. Observe local/state/federal regulations.

14 Transport information**14.1 Land transport GGVSE/ADR and RID****Road ADR:**Valuation.....: Hazardous product
Class.....: 3
Packaging Group.....: III
Hazard No.: 30
UN no.: 1307
Proper Shipping Name.....: Xylene, Lösung
Wacker-Transport emergency
card.....: 404**Railway RID:**Valuation.....: Hazardous product
Class.....: 3
Packaging Group.....: III
UN no.: 1307**14.2 Inland navigation GGVBinsch/ADNR****14.3 Transport by sea GGVSee/IMDG-Code**Valuation.....: Hazardous product
Class.....: 3
Packaging Group.....: III
UN no.: 1307
Proper Shipping Name.....: Xylenes solution
Marine Pollutant.....: no**14.4 Air transport ICAO-TI/IATA-DGR**Valuation.....: Hazardous product
Class.....: 3
Packaging Group.....: III
UN no.: 1307
Proper Shipping Name.....: Xylenes solution**14.5 Transport/further information****Postal and courier service:**

German postal dispatch.....: 3000 ccm per container / 6000 ccm per package

Informing dept. ref. to heading 14. Transport information:Department MW-G (Hazardous Materials Service), Telefax: +49/(0) 8677/83-5589, Telephone:
+49/(0) 8677/83-4950

Safety Data Sheet

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SILRES® REN 60

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15 Regulatory information**15.1 Warning Label (EC)**

	Xn	Harmful
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R-Phrase	Description
R10	Flammable.
R20/21	Harmful by inhalation and in contact with skin.
R38	Irritating to skin.

S-Phrase	Description
S25	Avoid contact with eyes.
S36/37	Wear suitable protective clothing and gloves.

Hazard ingredients (labelling EC):

CAS No.	Material	Hazard symbols	Risk phrases (EC)
1330-20-7	Xylene, mixed isomers	Xn	10-20/21-38

15.2 National regulations:**16 Other information****16.1 Material**

The above information describes exclusively the safety requirements of the product(s) and is based on our present-day knowledge. It does not represent a guarantee for the properties of the product(s) described in terms of the legal warranty regulations. Properties of the product are to be found in the respective product leaflet.

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.

n.a. = not applicable	n.s. = not subject to
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Details of international registration status

Listed on or in accordance with the following inventories:

HSNO - New Zealand
 IECSC - China
 TSCA - USA
 PICCS - Philippines
 ENCS - Japan
 EINECS - Europe
 ECL - Korea
 DSL - Canada
 AICS - Australia