

Safety Data Sheet (1907/2006/EC)

Material: 60013089

SILRES® BS 45

Version: 1.6 (GB)

Date of print: 06.03.2009

Date of last alteration: 18.02.2009

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

Commercial product name: SILRES® BS 45

1.2 Use of substance / preparation:Industrial.
Modifying agent for: Building materials**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 numberEmergency 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
R-	-

This product is not a dangerous preparation within the meaning of Directive 1999/45/EC.

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

Chemical characteristics
Polysiloxane + water

3.2 Hazardous ingredients:

EC-No.	CAS No.	Material	Content %		Warning Label (EC)	
			from	to	Symbol	R-Phrases
252-558-1	35435-21-3	Triethoxy(2,4,4-trimethylpentyl)silane		<5,0		10-52/53

R-Phrase	Description
R10 R52/53	Flammable. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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

-

4.2 After inhalation:

Provide fresh air. In cases of sickness seek medical advice (show label or SDS if possible).

4.3 After contact with the skin:

Wash with plenty of water or soap and water; immediately remove all contaminated clothing. In cases of sickness seek medical advice (show label if possible).

Safety Data Sheet (1907/2006/EC)

Material: 60013089 SILRES® BS 45

Version: 1.6 (GB) Date of print: 06.03.2009 Date of last alteration: 18.02.2009

4.4 After contact with the eyes:

Rinse immediately with plenty of water for 10-15 minutes and seek medical advice. Seek medical advice in case of continuous irritation.

4.5 After swallowing:

If conscious, give several small portions of water to drink. Seek medical advice and clearly identify substance.

5 Fire-fighting measures**5.0 General information:**

Product does not burn. Use extinguishing measures appropriate to the source of the fire.

5.1 Suitable extinguishing media:

not applicable .

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

not applicable .

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

Hazardous combustion products: nitrous gases .

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 sewers or surface waters. Contain any fluid that runs out using suitable material (e.g. earth). Retain contaminated water/extinguishing water.

6.3 Methods for cleaning up:

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. Clean any slippery coating that remains using a detergent / soap solution or another biodegradable cleaner.

7 Handling and storage**7.0 General information:**

Always stir well before use.

7.1 Handling**Precautions for safe handling:**

Ensure adequate ventilation. Spilled substance increases risk of slipping.

Precautions against fire and explosion:

Observe the general rules for fire prevention.

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

Protect against frost.

Advice for storage of incompatible materials:

not applicable

Further information for storage:

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

Minimum temperature allowed during storage and transportation: 0 °C

Safety Data Sheet (1907/2006/EC)

Material: 60013089

SILRES® BS 45

Version: 1.6 (GB)

Date of print: 06.03.2009

Date of last alteration: 18.02.2009

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
64-17-5	Ethanol	OEL	1920,0	1000,0		

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. Do not eat, drink or smoke when handling.

Personal protection equipment**Respiratory protection:**

not required .

Hand protection:

nitrile rubber protective gloves . Protective gloves made of butyl rubber . Gloves suitable for up to 60 minutes' use.

Eye protection:

protective goggles .

Skin protection:

protective clothing .

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.

9 Physical and chemical properties**9.1 General information**Physical state / form.....: liquid
Colour.....: whitish
Odour.....: slight**9.2 Important information about the protection of health, safety and the environment Method:**Melting point / melting range.....: approx. -1 °C
Boiling point / boiling range.....: approx. 100 °C
Flash point.....: 69 °C (ISO 3679)
Sustained combustibility.....: > 110 °C (ISO 9038)
Ignition temperature: 460 °C
Lower explosion limit (LEL).....: not applicable
Upper explosion limit (UEL).....: not applicable
Vapour pressure.....: 23 hPa at 20 °C
Density.....: 1,04 g/cm³ at 20 °C
Water solubility / miscibility.....: completely miscible
pH-Value.....: approx. 5
Viscosity (dynamic).....: approx. 1000 mPa.s at 25 °C**9.3 Other information**

Re 9.2 solubility in water: Hydrolytic decomposition occurs. Explosion limits for released ethanol: 3.5 - 15%(V).

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

If stored and handled in accordance with standard industrial practices no hazardous reactions are known.

Safety Data Sheet (1907/2006/EC)

Material: 60013089 SILRES® BS 45

Version: 1.6 (GB) Date of print: 06.03.2009 Date of last alteration: 18.02.2009

10.1 Conditions to avoid:

none known

10.2 Materials to avoid:

Reacts with: acids and basic substances . Reaction causes the formation of: ethanol .

10.3 Hazardous decomposition products:

ethanol .

11 Toxicological information**11.0 General information:**

Product not investigated.

11.1 Toxicological tests**Further information:**

-

11.2 Experience with man:

-

11.3 Further toxicological information:

Product(s) of hydrolysis: According to literature, ethanol (67-17-5) irritates the mucous membranes, slightly irritates the skin, degreases the skin, is narcotic and may cause liver damage.

12 Ecological information**12.1 Ecotoxicity**

Species	Test method	Exp. time	Result	Source
Daphnia magna	acute	48 h	> 100 mg/l (EC50)	test report
Daphnia magna	acute	48 h	>= 100 mg/l (NOEC)	test report

No expected damaging effects to aquatic organisms.

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

According to current knowledge adverse effects on water purification plants are not expected.

12.2 Mobility

-

12.3 Persistence and degradability**Biodegradation / further information:**

Silicone content: Biologically not degradable.

Further information:

-

12.4 Bio-accumulation potential

No adverse effects expected.

12.5 Other harmful effects

-

12.6 Additional information**General information:**

No environmental problems expected if handled and treated in accordance with standard industrial practices and local regulations where applicable.

Safety Data Sheet (1907/2006/EC)

Material: 60013089 SILRES® BS 45

Version: 1.6 (GB) Date of print: 06.03.2009 Date of last alteration: 18.02.2009

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.

13.3 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.

14 Transport information**14.1 Land transport ADR and RID:****Road ADR:**

Valuation.....: Not regulated for transport

Railway RID:

Valuation.....: Not regulated for transport

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

14.4 Transport/further information**Informing dept. ref. to heading 14. Transport information:**

Department Hazardous Materials Service, Telefax: +49/(0) 8677/83-5589, Telephone: +49/(0) 8677/83-4950

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

R-Phrase	Description
R-	-

S-Phrase	Description
S-	-

Special identification instructions: Safety data sheet available for professional users on request.

15.2 National 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 & Subsidiary Regulations.
Other national and local measures relating to the workplace, pollution control, environmental protection and waste control.	

15.3 Other international regulations

Safety Data Sheet (1907/2006/EC)

Material: 60013089 **SILRES® BS 45**Version: 1.6 (GB) Date of print: 06.03.2009 Date of last alteration: 18.02.2009

Details of international registration status

Listed on or in accordance with the following inventories:

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

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. This version supersedes all previous versions.

- End of Safety Data Sheet -