

Safety Data Sheet (1907/2006/EC)

Material: 60047017

SILRES® BS 43 N

Version: 1.6 (REG_EUROPE)

Date of print: 01.03.2009

Date of last alteration: 19.02.2009

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

Commercial product name: SILRES® BS 43 N

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
R10	Flammable.
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R67	Vapours may cause drowsiness and dizziness.

2.2 Further hazards to man and environment:

Product hydrolyses, producing ethanol (CAS no. 64-17-5). Ethanol is highly flammable (F, R11).

3 Composition/information on ingredients**3.1 Chemical characterization (preparation):**Chemical characteristics
Polysiloxane + water + solvent**3.2 Hazardous ingredients:**

EC-No.	CAS No.	Material	Content %		Warning Label (EC)	
			from	to	Symbol	R-Phrases
265-199-0	64742-95-6	Mixture of di- /trialkylbenzenes		<20,0	Xn, N	10-37-65-66- 67-51/53
252-558-1	35435-21-3	Triethoxy(2,4,4- trimethylpentyl)silane		<5,0		10-52/53
	69011-36-5	Tridecanolethoxylate, branched		<=1,0	Xn	22-41
	69011-36-5	Tridecanol ethoxylate, branched with 3-5 EO		<=1,0	Xi	41

Hydrocarbon mixtures were classified in accordance with the applicable notes in Annex I of the EC Directive on Dangerous Substances 67/548/EEC.

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R-Phrase	Description
R10 R37 R65 R66 R67 R51/53	Flammable. Irritating to respiratory system. Harmful: may cause lung damage if swallowed. Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R10 R52/53	Flammable. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R22 R41	Harmful if swallowed. Risk of serious damage to eyes.
R41	Risk of serious damage to eyes.

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

Remove contaminated clothes at once. Where there is a risk of unconsciousness place and transport on one side in a stable position.

4.2 After inhalation:

Move to fresh air, keep the victim laying down and restful. If breathing has stopped, give artificial respiration. Administer oxygen in case of breathing difficulties. Seek medical advice and clearly identify substance.

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).

4.4 After contact with the eyes:

Rinse immediately with plenty of water for 10-15 minutes and seek medical advice.

4.5 After swallowing:

If conscious, give several small portions of water to drink. Seek medical advice immediately and produce the label or packaging.

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:

-

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 inhaling mists and vapours. Avoid contact with eyes and skin. 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. Dispose of in prescribed marked containers.

6.3 Methods for cleaning up:

Take up mechanically and dispose of according to local/state/federal regulations. 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. Do not flush away with water.

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6.4 **Further information:**
Eliminate all sources of ignition.

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:

Take precautionary measures against electrostatic charging. Cool endangered containers with water. Vapours heavier than air, therefore inflammable gas mixture may form mainly near floor. Keep away from open flames, heat and sparks.

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

Protect against frost. Make sure there is no possibility of entering the ground.

Advice for storage of incompatible materials:

not applicable

Further information for storage:

Keep container tightly closed. Protect against sun.

Minimum temperature allowed during storage and transportation: 0 °C**8 Exposure controls and personal protection equipment****8.1 Exposure limits**

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

Do not breathe vapours. Avoid contact with eyes and skin. Do not eat, drink or smoke when handling.

Personal protection equipment**Respiratory protection:**

In case of long or strong exposure: gas mask filter A .

Hand protection:

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

Eye protection:

protective goggles .

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.....: white

Odour.....: weak

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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.....: 100 °C at 1013 hPa
Flash point.....: 48 °C (ISO 2719)
Ignition temperature: 475 °C (DIN 51794)
Lower explosion limit (LEL).....: not applicable
Upper explosion limit (UEL).....: not applicable
Vapour pressure.....: approx. 23 hPa at 20 °C
Density.....: 1,069 g/cm³ at 20 °C
Water solubility / miscibility.....: completely miscible
pH-Value.....: approx. 5
Viscosity (dynamic).....: approx. 500 mPa.s

9.3 Other information

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

Thermal decomposition.....: not applicable

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:

none known

10.2 Materials to avoid:

none known

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.

11 Toxicological information**11.0 General information:**

Product not investigated. Note indications of danger and safety advice (R- and S-phrases) in section 15.

11.1 Toxicological tests**Further information:**

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11.2 Experience with man:

-

11.3 Further toxicological information:

Classification based on ingredients: Vapours may cause drowsiness and dizziness. Organic solvent(s): According to documentation solvent naphtha is slightly irritating to skin and mucous membranes, has skin-drying, narcotic effect. Skin inflammation (dermatitis) possible after frequent or prolonged contact with skin. Possibility of pulmonary oedema or inflammation of the lungs after direct contact with respiratory organs (e.g. by aspiration). 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**

Classification based on ingredients: Harmful to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

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12.2 Mobility

Silicone content: Absorbed by floating particles. Separation by sedimentation.

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

Silicone content: Biologically not degradable.

Further information:

Silicone content: Elimination by adsorption to activated sludge.

12.4 Bio-accumulation potential

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12.5 Other harmful effects

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12.6 Additional information**General information:**

According to our present knowledge no further data known.

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

Dispose of according to regulations by incineration in a special waste incinerator. Small quantities may be disposed of by incineration in an approved facility. 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 ADR and RID:****Road ADR:**

Valuation.....: Hazardous product
Class.....: 3
Packaging Group.....: III
Hazard No.: 30
UN no.: 1993
Proper Shipping Name.....: Entzündbarer flüssiger Stoff, n.a.g.
Technical name.....: (Enthält Gemisch von Di- und Trialkylbenzolen)
Wacker-Transport emergency card.....: 392
card.....:

Railway RID:

Valuation.....: Hazardous product
Class.....: 3
Packaging Group.....: III
UN no.: 1993

14.2 Transport by sea IMDG-Code

Valuation.....: Hazardous product
Class.....: 3
Packaging Group.....: III
UN no.: 1993
Proper Shipping Name.....: Flammable liquid, n.o.s.
Technical name.....: (Contains mixture of Di- and Trialkylbenzenes)
Marine Pollutant.....: no

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14.3 Air transport ICAO-TI/IATA-DGR

Valuation.....: Hazardous product
Class.....: 3
Packaging Group.....: III
UN no.: 1993
Proper Shipping Name.....: Flammable liquid, n.o.s.
Technical name.....: (Contains mixture of Di- and Trialkylbenzenes)

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
R10	Flammable.
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R67	Vapours may cause drowsiness and dizziness.

S-Phrase	Description
S61	Avoid release to the environment. Refer to special instructions / safety data sheets.

15.2 National regulations:**15.3 Other international regulations**

Details of international registration status
Listed on or in accordance with the following inventories:
TSCA - USA
PICCS - Philippines
ENCS - Japan
IECSC - China
EINECS - Europe
ECL - Korea
DSL - Canada
AICS - Australia

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 -