

Safety Data Sheet (1907/2006/EC)

Material: 60024568

WACKER® SILICATE TES 40 WN

Version: 1.4 (REG_EUROPE)

Date of print: 24.05.2009

Date of last alteration: 07.12.2008

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

Commercial product name: WACKER® SILICATE TES 40 WN

1.2 Use of substance / preparation:Industrial.
Binder for: inorganic fillers and pigments**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
Silicic acid ester, hydrolzed

3.2 Hazardous ingredients:

EC-No.	CAS No.	Material	Content %		Warning Label (EC)	
			from	to	Symbol	R-Phrases
201-083-8	78-10-4	Tetraethyl silicate		<20,0	Xn	10-20-36/37
200-578-6	64-17-5	Ethanol		<=1,0	F	11

R-Phrase	Description
R10 R20 R36/37	Flammable. Harmful by inhalation. Irritating to eyes and respiratory system.
R11	Highly flammable.

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

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

4.2 After inhalation:

Provide fresh air.

4.3 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).

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4.4 After contact with the eyes:

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

4.5 After swallowing:

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

4.6 Advice for the physician:

Allow cortisone spray inhalation at first possible opportunity.

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

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

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

water spray , water jet .

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

Hazardous decomposition products: alcohols . Do not allow extinguishing water to enter sewerage, the soil or inshore waters.

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). Keep unprotected persons away. 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. 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. 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. Keep away from incompatible substances in accordance with section 10.2. Spilled substance increases risk of slipping.

Precautions against fire and explosion:

Flammable vapors may accumulate and form explosive mixtures with air in containers, process vessels, including partial, empty and uncleaned containers and vessels, or other enclosed spaces. 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

Advice for storage of incompatible materials:

not applicable

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Further information for storage:

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

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:**

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:**

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

Hand protection:

Protective gloves made of butyl 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.....: ester-like

9.2 Important information about the protection of health, safety and the environment**Method****(67/548/EEC) :**

Melting point / melting range.....: approx. -60 °C
Boiling point / boiling range.....: approx. 160 °C at 1013 hPa
Solidification point (range).....: approx. -60 °C
Flash point.....: 62 °C (DIN 51755)
Sustained combustibility.....: 88 °C (ISO 9038)
Ignition temperature: 235 °C (DIN 51794)
Lower explosion limit (LEL).....: not determined
Upper explosion limit (UEL).....: not determined
Vapour pressure.....: < 2 hPa
Density.....: 1,06 - 1,07 g/cm³ at 20 °C (DIN 51757)
Water solubility / miscibility.....: not applicable
pH-Value.....: not applicable
Viscosity (dynamic).....: approx. 5 mPa.s (DIN 53015)

9.3 Other information

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

Thermal decomposition.....: > 200 °C

Minimum ignition energy: > 3 mJ

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

If stored and handled in accordance with standard industrial practices no hazardous reactions are known. Stable up to 200 °C (392 °F). Behaviour at higher temperatures unknown.

10.1 Conditions to avoid:

moisture

10.2 Materials to avoid:

Reacts with: water . Reaction causes the formation of: ethanol .

10.3 Hazardous decomposition products:

By hydrolysis: ethanol .

11 Toxicological information**11.0 General information:**

According to our present state of knowledge no damaging effect expected when treated in accordance with standard industrial practices and local regulations where applicable.

11.1 Toxicological tests**Acute toxicity (LD50/LC50-values relevant to classification):**

Exposition	Value/value range	Species	Source
by inhalation	> 5,03 mg/l/4h (spray / dust)	rat (Limit Test)	test report

Specific symptoms in animal test:

Limit test (by inhalation): No mortality with the given dose.

Primary irritation:

Exposition	Effect	Species/Testsystem	Source
to eyes	not irritating	rabbit	test report

Reference points for mutagenic potential:

Test system	Effect	Source
In vitro Mammalian Chromosomal Aberration Test	not mutagenic	test report
Bacterial Reverse Mutation Test	not mutagenic	

11.2 Experience with man:

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11.3 Further toxicological information:

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

12 Ecological information**12.1 Ecotoxicity**

No data known.

12.2 Mobility

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

The hydrolysis product (Ethanol) is readily biologically degradable.

Further information:

By hydrolysis: silicic acid and ethanol .

12.4 Bio-accumulation potential

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12.5 Other harmful effects

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12.6 Additional information**General information:**

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

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 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:****15.3 Other international regulations**

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Details of international registration status

Listed on or in accordance with the following inventories:

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