

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

Material: 60002725

**WACKER® AK 1 000  
SILICONE FLUID**

Version: 1.4 (GB)

Date of print: 18.08.2015

Date of last alteration: 12.06.2015

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier****Commercial product name:** WACKER® AK 1 000  
SILICONE FLUID**1.2 Relevant identified uses of the substance or mixture and uses advised against**

Use of substance / preparation:

Industrial.

Intermediate chemical

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:	+49 89 6279-1770

Information about the Safety Data Sheet:	Telephone	+49 8677 83-4888
	Telefax	+49 8677 886-9722
	eMail	WLCP-MSDS@wacker.com

**1.4 Emergency telephone number**

Emergency Information (German):	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.

**2.3 Other hazards**

No data available.

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

Polydimethylsiloxane

**3.2 Mixtures**

not applicable

**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).

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**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:**

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

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

water jet .

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

not applicable

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

Use respiratory protection independent of recirculated air. Keep unprotected persons away.

**General information:**

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

If material is released indicate risk of slipping. Do not walk through spilled material.

**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). Close leak if possible without risk.

**6.3 Methods and material for containment and 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. Apply sand or other inert granular material to improve traction.

**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).

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

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**General information:**

No special protective measures required.

**Precautions for safe handling:**

Spilled substance increases risk of slipping.

**Precautions against fire and explosion:**

Observe the general rules for fire prevention.

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

none known

**Advice for storage of incompatible materials:**

not applicable

**Further information for storage:**

Keep container tightly closed. Store in a dry and cool place.

**Maximum temperature allowed during storage and transportation:** 50 °C**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:**

not applicable

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

Observe standard industrial hygiene practices for the handling of chemical substances. Do not eat or drink when handling.

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

not required .

**Hand protection**

Recommendation: Protective gloves made of butyl rubber , Protective gloves made of nitrile rubber . 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**

Recommendation: protective goggles .

**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**

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

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**General information:**

Physical state / form .....: liquid  
Colour .....: colourless, clear  
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 .....	-50 °C	
Boiling point / boiling range .....	not applicable	
Flash point.....	> 300 °C	(ISO 2592)
Ignition temperature .....	410 °C	(EN 14522)
Lower explosion limit (LEL) .....	not applicable	
Upper explosion limit (UEL).....	not applicable	
Vapour pressure.....	not applicable	
Density .....	approx. 0,97 g/cm <sup>3</sup> at 25 °C	(DIN 51757)
Water solubility / miscibility.....	virtually insoluble at 20 °C	
pH-Value .....	approx. 7	(-)
Viscosity (dynamic) .....	1000 mPa.s at 25 °C	(DIN 53019)
Viscosity (kinematic) .....	approx. 1000 mm <sup>2</sup> /s at 25 °C	(DIN 53019)

**9.2 Other information**

Thermal decomposition.....: Decomposition begins at > 250 °C

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

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

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

**10.4 Conditions to avoid**

none known

**10.5 Incompatible materials**

none known

**10.6 Hazardous decomposition products**

If stored and handled properly: none known . Measurements have shown the formation of small amounts of formaldehyde at temperatures above about 150 °C (302 °F) through oxidation.

**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.

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Route of exposure	Result/Effect	Species/Test system	Source
oral	LD <sub>50</sub> : > 5000 mg/kg	rat	literature (Polydimethylsiloxane)
dermal	LD <sub>50</sub> : > 2008 mg/kg	rat	literature (Polydimethylsiloxane)

**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	literature (Polydimethylsiloxane)

**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	literature (Polydimethylsiloxane)

**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	literature (Polydimethylsiloxane) OECD 406

**11.1.5 Germ cell mutagenicity****Assessment:**

Based on known data a significant mutagenic potential may be excluded.

**Product details:**

Result/Effect	Species/Test system	Source
negative	mutation assay (in vitro) bacterial cells	literature (Polydimethylsiloxane) OECD 471

**11.1.6 Carcinogenicity****Assessment:**

Animal tests have not revealed any carcinogenic effects.

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Result/Effect	Species/Test system	Source
NOAEL: >= 1000 mg/kg NOAEL= NOAEL (carcinogenic effects)	carcinogenicity study rat (F344) oral (feed) 2 a	literature (Polydimethylsiloxane)

**11.1.7 Reproductive toxicity****Assessment:**

Animal tests have shown no indications of possibility of damage to embryo and impairment of fertility.

**Product details:**

Result/Effect (Examinations of developmental toxicity and teratogenicity)	Species/Test system	Source
NOAEL (developmental): >= 1000 mg/kg NOAEL (maternal): >= 1000 mg/kg Symptoms/Effect: Nothing abnormal detected.	Developmental Toxicity Study rabbit oral (gavage) ; day 6 - 19 of gestation	literature (Polydimethylsiloxane)

**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.

**Product details:**

Result/Effect	Species/Test system	Source
NOAEL: >= 1000 mg/kg NOAEL = NOAEL (systemic effects)	chronic study rat oral (feed) 1 a Follow-up observation period: 1 a	literature (Polydimethylsiloxane)

**11.1.10 Aspiration hazard****Assessment:**

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

**11.1.11 Further toxicological information**

Human patch test: Product displays good compatibility with the skin.

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

No expected damaging effects to aquatic organisms. According to current knowledge adverse effects on water purification plants are not expected.

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Result/Effect	Species/Test system	Source
EC <sub>0</sub> : > 0,0001 mg/l (measured) effect level > maximum achievable concentration	static (water-accommodated fraction) Daphnia magna (48 h)	literature (Polydimethylsiloxane)
IC <sub>50</sub> (growth rate): > 100000 mg/l (nominal)	Marine alga (skeleonema costatum) (72 h)	literature (Polydimethylsiloxane)
NOEC (relevant parameters): > 10000 mg/kg	feeding study rainbow trout (Oncorhynchus mykiss) (28 d)	literature (Polydimethylsiloxane)

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

Silicone content: biologically not degradable. Elimination by adsorption to activated sludge. Polydimethylsiloxanes are degradable to a certain extent in abiotic processes.

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

Polymer component: Bioaccumulation is not expected to occur.

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

Polymer component: Insoluble in water. Adsorbs on soil.

**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, reprocessed or recycled should be disposed of in accordance with Federal, State, and local regulations at an approved facility. Depending on the regulations, waste treatment methods may include, e.g., landfill or incineration.

**13.1.2 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. Uncleaned packaging should be treated with the same precautions as the material.

**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**

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**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**

Relevant information in other sections has to be considered.

**14.7 Transport in bulk according to Annex II of MARPOL 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 &amp; Safety at Work Regulations 1999

Health &amp; 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**

Relevant information about individual substance inventories, where available, is given below.

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South Korea (Republic of Korea) .....	<b>ECL</b> (Existing Chemicals List): This product is listed in, or complies with, the substance inventory.
Japan .....	<b>ENCS</b> (Handbook of Existing and New Chemical Substances): This product is listed in, or complies with, the substance inventory.
Australia .....	<b>AICS</b> (Australian Inventory of Chemical Substances): This product is listed in, or complies with, the substance inventory.
People's Republic of China .....	<b>IECSC</b> (Inventory of Existing Chemical Substances in China): This product is listed in, or complies with, the substance inventory.
Canada .....	<b>DSL</b> (Domestic Substance List): This product is listed in, or complies with, the substance inventory.
Philippines.....	<b>PICCS</b> (Philippine Inventory of Chemicals and Chemical Substances): This product is listed in, or complies with, the substance inventory.
United States of America (USA).....	<b>TSCA</b> (Toxic Substance Control Act Chemical Substance Inventory): This product is listed in, or complies with, the substance inventory.
European Economic Area (EEA).....	<b>REACH</b> (Regulation (EC) No 1907/2006): General note: the registration obligations for substances imported into the EEA or manufactured within the EEA by the supplier mentioned in section 1 are fulfilled by the said supplier. The registration obligations for substances imported into the EEA by customers or other downstream users must be fulfilled by the latter.

**SECTION 16: Other information****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 -**