

# Safety Data Sheet

Material: 60002709

**WACKER® AK 350  
SILICONE FLUID**

Version 1.11 (GHS\_INT)

Print Date 28.05.2026

Date of last alteration: 04.04.2026

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

Commercial product name: **WACKER® AK 350  
SILICONE FLUID**

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of substance / preparation:  
Industrial.  
Intermediate chemical

### 1.3 Details of the supplier of the safety data sheet

Manufacturer/distributor: Wacker Chemie AG  
Street/POB-No.: Gisela-Stein-Straße 1  
State/postal code/city: D 81671 München  
Telephone: +49 89 6279-0

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

### 1.4 Emergency telephone number

Emergency Information:	Europe	<b>+44 1235 239670</b>
Emergency Information:	Africa and the Middle East	<b>+44 1235 239671</b>
Emergency Information:	Caribbean, Central America and South America except Chile and Colombia	<b>+1 646 844 7309</b>
Emergency Information:	Pakistan	<b>+65 3158 1329</b>
Emergency Information:	Bangladesh	<b>+65 3158 1200</b>
Emergency Information:	East Asia and Southeast Asia except Sri Lanka, Bangladesh and Pakistan	<b>+65 3158 1074</b>
Emergency Information:	Sri Lanka	<b>+65 3158 1195</b>

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

Not a hazardous substance or mixture.

### 2.2 Label elements

No labeling according to GHS required.

### 2.3 Other hazards

No data available.

Endocrine disrupting properties - human health: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Endocrine disrupting properties - environment: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

#### 3.1.1 Chemical characteristics

Polydimethylsiloxane

#### 3.1.2 Hazardous ingredients

This material does not contain any ingredients above the permitted limit(s).

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## 3.2 Mixtures

not applicable

This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57) in amounts above  $\geq 0.1\%$ .

## 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).

**After contact with the eyes:**

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

**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 inhalation:**

Provide fresh air.

**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:**

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

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

water jet .

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

Risk of hazardous gasses or fumes in the event of fire. Exposure to combustion products may be a health hazard! Hazardous combustion products: carbon oxides , silicon oxides , incompletely burnt hydrocarbons , toxic and very toxic fumes .

### 5.3 Advice for firefighters

**Special protective equipment for fire fighting:**

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

## 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.

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## 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

**General information:**

No special protective measures required.

**Precautions for safe handling:**

Spilled substance increases risk of slipping. Liquid-silicone-based materials have lubricating properties that can substantially reduce or eliminate traction and may pose a slip hazard. Please use warning labels on consumer products where traction is essential for safety.

**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

A temporary increase in temperature during transport does not impair quality. Actively cooled transport guide can be dispensed with.

### 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:**

Substance	Type	mg/m <sup>3</sup>	ppm	Dust fract.	Fibre/m <sup>3</sup>
Aerosol - inhalable fraction		10,0			

-

The aerosol limit specified is a recommendation should aerosol be formed during processing.

### 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**

No personal respiratory protective equipment normally required.

In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit. Suitable respiratory equipment: Respirator with a full face mask, according to acknowledged standards such as EN 136.

Recommended Filter type: Combined filter type ABEK-P2 (certain inorganic, organic and acidic gases and vapors; ammonia/amines; particles), according to acknowledged standards such as EN 14387

Observe the equipment manufacturer's information and wear time limits for respirators.

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**Eye protection**

Protective goggles, according to acknowledged standards such as EN 166, are recommended.

**Hand protection**

Use of protective gloves is recommended when handling the material, according to recognized standards such as EN374.

Recommended glove types: Protective gloves made of nitrile rubber

thickness of the material: &gt; 0,1 mm

Breakthrough time: &gt; 480 min

Recommended glove types: Protective gloves made of butyl rubber

thickness of the material: &gt; 0,3 mm

Breakthrough time: &gt; 480 min

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Note that, due to the numerous external influences (such as temperature), a chemically resistant protective glove in daily use may have a service life that is considerably shorter than the measured break through time.

**8.2.2 Exposure to the environment limited and controlled**

Prevent material from entering surface waters and soil.

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

<b>Property:</b>	<b>Value:</b>	<b>Method:</b>
<b>Appearance</b>		
Physical state .....	liquid	
Colour.....	colourless	
<b>Odour</b>		
Odour .....	odourless	
<b>Odour limit</b>		
Odour limit.....	no data available	
<b>pH-Value</b>		
pH-Value .....	Not applicable. Insoluble in water.	
<b>Melting point/freezing point</b>		
Melting point / melting range .....	-50 - -35 °C	
<b>Initial boiling point and boiling range</b>		
Boiling point / boiling range .....	not determinable	(EU-GL.A.2)
<b>Flash point</b>		
Flash point.....	266 °C	(ISO 2719)
Flash point.....	> 300 °C	(ISO 2592)
<b>Evaporation rate</b>		
Evaporation rate .....	no data available	
<b>Upper/lower flammability or explosive limits</b>		
Lower explosion limit .....	exempt	
Upper explosion limit .....	exempt	
<b>Vapour pressure</b>		
Vapour pressure.....	not applicable	
<b>Solubility(ies)</b>		
Water solubility .....	practically insoluble at 20 °C	
<b>Vapour density</b>		
Relative gas/vapour density .....	no data available	
<b>Relative Density</b>		
Relative Density .....	0,97 (25 °C)	(DIN 51757)
	(Water / 4 °C = 1,00)	
Density .....	0,97 g/cm <sup>3</sup> (25 °C)	(DIN 51757)
<b>Partition coefficient: n-octanol/water</b>		
Partition coefficient: n-octanol/water.....	no data available	
<b>Auto-ignition temperature</b>		
Ignition temperature .....	410 °C	(EN 14522)

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**Decomposition temperature**

Thermal decomposition .....: &gt; 250 °C

**Viscosity**

Viscosity, dynamic .....: 324 - 356 mPa.s at 25 °C

(DIN 53019)

Viscosity, kinematic .....: 350 mm<sup>2</sup>/s at 25 °C

(DIN 53019)

**Molecular mass**

Molecular mass .....: no data available

**9.2 Other information**

No data available.

**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****Product details:**

Exposure routes	Result/Effect
Oral	LD50 > 5000 mg/kg Neither mortality nor clinical signs of toxicity were observed with the given dose. Species: Rat, Source: literature
dermal	LD50 > 2000 mg/kg Neither mortality nor clinical signs of toxicity were observed with the given dose. Species: Rat, Source: literature

**11.1.2 Skin corrosion/irritation****Product details:**No skin irritation  
(Species: Rabbit, Source: literature)**11.1.3 Serious eye damage/eye irritation****Product details:**No eye irritation  
(Species: Rabbit, Source: literature)**11.1.4 Respiratory or skin sensitization****Product details:**

Exposure routes	Result
Skin contact	Does not cause skin sensitization. (Species: Guinea pig, Test system: Maximisation Test, Method: OECD 406, Source: literature)
Inhalation	No data available.

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## 11.1.5 Germ cell mutagenicity

**Assessment:**

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

negative

(Test system: mutation assay (in vitro) / bacterial cells, Method: OECD 471, Source: literature)

## 11.1.6 Carcinogenicity

**Assessment:**

Animal tests have not revealed any carcinogenic effects.

**Product details:**NOAEL:  $\geq$  1000 mg/kg

NOAEL= NOAEL (carcinogenic effects)

(Test system: carcinogenicity study, Species: Rat, Strain: Fischer F344, Application Route: Oral, Route of administration: feed, Test period: 2 a, Test substance: Polydimethylsiloxane, Source: literature)

## 11.1.7 Reproductive toxicity

**Assessment:**

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

**Product details:**

Reproductive Toxicity/Development/Teratogenicity

NOAEL (developmental):  $\geq$  1000 mg/kgNOAEL (maternal):  $\geq$  1000 mg/kg

(Symptoms/Effect: Nothing abnormal detected., Test system: Developmental Toxicity Study, Species: Rabbit, Application Route: Oral, Route of administration: gavage, Frequency of Treatment: day 6 - 19 of gestation, Test substance: Polydimethylsiloxane, Source: literature)

## 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:**

In animal experiments with repeated exposure no effects with relevance for humans were observed.

**Product details:**

Result/Effect

NOAEL:  $\geq$  1000 mg/kg

NOAEL = NOAEL (systemic effects)

(Test system: chronic study, Species: Rat, Application Route: Oral, Route of administration: feed, Test period: 1 a, Subsequent observation period: 1 a, Source: literature)

## 11.1.10 Aspiration hazard

**Assessment:**

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

## 11.2 Information on other hazards

### 11.2.1 Endocrine disrupting properties

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

### 11.2.2 Further toxicological information

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

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

Evaluation on basis of physical-chemical properties: No expected damaging effects to aquatic organisms.

**Product details:**

Result/Effect	Species/Test system	Source
LL50: > 1000 mg/l (nominal) The effect level is greater than the maximum achievable concentration. The value refers to the water-accommodated fraction (WAF).	static test Fish (96 h)	literature
EC50: > 0,0001 mg/l (measured) The effect level is greater than the maximum achievable concentration. The value refers to the water-accommodated fraction (WAF).	static test Daphnia magna (Water flea) (48 h)	literature
IC50 (Growth rate): > 100000 mg/l (nominal) The effect level is greater than the maximum achievable concentration. The value refers to the water-accommodated fraction (WAF).	static test Skeletonema costatum (marine diatom) (72 h)	literature
NOEC: > 10000 mg/kg	feeding study Oncorhynchus mykiss (rainbow trout) (28 d)	literature
NOEC (mortality): > 500 mg/kg The exposure to treated sediment did not result in effects.	exposure via sediment Daphnia magna (Water flea) (21 d)	literature
NOEC (Growth): > 500 mg/kg The exposure to treated sediment did not result in effects.	exposure via sediment Daphnia magna (Water flea) (21 d)	literature
NOEC (reproduction rate): > 500 mg/kg The exposure to treated sediment did not result in effects.	exposure via sediment Daphnia magna (Water flea) (21 d)	literature

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

Polymer component: biologically not degradable. Elimination by adsorption to activated sludge.

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

Polymer component: No adverse effects expected.

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

Polymer component: insoluble in water.

**12.5 Results of PBT and vPvB assessment**

PBT assessment

No data available.

vPvB Assessment

No data available.

**12.6 Endocrine disrupting properties**

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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**12.7 Other adverse effects**

none known

**SECTION 13: Disposal considerations****13.1 Waste treatment methods****13.1.1 Material**

Recommendation:

Material that cannot be used or chemically reprocessed should be disposed of at an approved facility in accordance with any applicable governmental regulations.

**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.

**SECTION 14: Transport information****14.1 UN number or ID number**

ADR .....: Not applicable

RID .....: Not applicable

IMDG .....: Not applicable

ICAO/IATA .....: Not applicable

**14.2 Proper shipping name**

ADR .....: Not applicable

RID .....: Not applicable

IMDG .....: Not applicable

ICAO/IATA .....: Not applicable

**14.3 Transport hazard class**

ADR .....: Not applicable

RID .....: Not applicable

IMDG .....: Not applicable

ICAO/IATA .....: Not applicable

**14.4 Packing group**

ADR .....: Not applicable

RID .....: Not applicable

IMDG .....: Not applicable

ICAO/IATA .....: Not applicable

**14.5 Environmental hazards**

Environmentally hazardous: no

**14.6 Special precautions for user**

Relevant information in other sections has to be considered.

**14.7 Maritime transport in bulk according to IMO instruments**

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.

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## 15.2 Details of international registration status

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

Japan .....	: <b>ENCS</b> (Handbook of Existing and New Chemical Substances): This product is listed in, or complies with, the substance inventory.
New Zealand .....	: <b>NZIoC</b> (New Zealand Inventory of Chemicals): This product is listed in, or complies with, the substance inventory. (For a correct interpretation of the New Zealand status, additional information like GHS classification or Group Standard is required.)
Australia .....	: <b>AiIC</b> (Australian Inventory of Industrial Chemicals): This product is listed in, or complies with, the substance inventory.
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): All components of this product are listed as active or are in compliance with the substance inventory.
Taiwan .....	: <b>TCSI</b> (Taiwan Chemical Substance Inventory): This product is listed in, or complies with, the substance inventory. General note: The Taiwanese chemicals regulation requires a phase 1 registration for TCSI-listed or TCSI-compliant substances if imports to Taiwan or manufacturing in Taiwan exceed the trigger quantity of 100 kg/a (for mixtures to be calculated per each ingredient). It is the duty of the importing/manufacturing legal entity to take care of this obligation.
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.
South Korea (Republic of Korea) .....	: <b>AREC</b> (Act on Registration and Evaluation of Chemicals; "K-REACH"): Please approach your regular contact for more detailed information.

## 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.

WACKER restricts the use of its products inside the human body or in contact with bodily fluids and mucosa. For further details please review our Health Care Policy on [www.wacker.com](http://www.wacker.com). WACKER may cancel any delivery obligation(s) if the Health Care Policy is not observed.

### 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 -