

**SAFETY DATA SHEET**

Material: 60044102

SEMICOSIL® 987 GR

Version 1.11 (US)

Print Date 09/29/2025

Date of last alteration: 07/28/2025

**1. Product and company identification****1.1 Identification of the substance or preparation:****Trade name** SEMICOSIL® 987 GR

Use of the Substance/Mixture Industrial adhesives

**1.2 Company/undertaking identification:**Manufacturer/distributor: Wacker Chemie AG  
Gisela-Stein-Straße 1  
81671 München  
GermanyCustomer information: Wacker Chemical Corporation  
4950 S State Road  
Ann Arbor, MI 48108  
InfoLine:  
Tel (517) 264-8240  
Hours of operation:  
Monday - Friday, 8 am to 5 pm (eastern standard time)  
Corporate website: www.wacker.comEmergency telephone no. (24h): **(517) 264-8500**Transportation emergency: (800) 424-9300 (CHEMTREC, USA)  
(703) 527-3887 (CHEMTREC, international)

This SDS was prepared by the Regulatory Affairs and Product Safety Department (RAPS) of Wacker Chemical Corporation.

**2. Hazards identification****2.1 Classification of the substance or mixture****GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200):**

Not a hazardous substance or mixture.

**2.2 Label elements****GHS-Labeling:**

No labeling according to GHS required.

**2.3 Other hazards**

Product can release hydrogen. Risk of hydrogen gas formation with water, alcohols, acids, metallic salts, amines and alkalis. In combination with oxygen, the released hydrogen can form oxyhydrogen. The product hydrolyses under formation of methanol (CAS-Nr. 67-56-1). Methanol is classified concerning both physical and health hazards. The hydrolysis rate and consequently the relevance for the hazard profile of the product is strongly dependent on the specific conditions.

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.

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

Chemical characterization

Polydimethylsiloxane with functional groups and auxiliaries for addition cross-linking

**SAFETY DATA SHEET**

Material: 60044102

SEMICOSIL® 987 GR

Version 1.11 (US)

Print Date 09/29/2025

Date of last alteration: 07/28/2025

**3.2 Information on ingredients:**

Type	CAS-No.	Substance	Content [wt. %]		Note
			Lower	Upper	
INHA	13463-67-7	Titanium dioxide		<0.2	C1

**Type:** INHA - ingredient, VERU - impurity. \*\*\* **Note:** C1 - IARC carcinogen, C2 - NTP carcinogen, C3 - OSHA carcinogen, R - reproductive toxin.

The hazards associated with respirable particulate exposure do not apply to this material. All fillers, pigments and similar ingredients are incorporated in a non-respirable form, and under normal conditions of use are expected to remain inextricably bound within the product.

Substances listed in the Subsections "HAPS" and "California Proposition 65 Carcinogens / Reproductive Toxins" that are not listed in this section are only present at quantities below 0.1% for California Proposition 65 listed toxins or below 1% for non-carcinogenic HAPS or they are inextricably bound in the product. Specific chemical identities and/or exact percentage (concentration) of the composition may have been withheld as a trade secret.

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

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

Get medical attention if irritation or other symptoms occur. Before seeking medical attention remove contaminated clothing and shoes. Take a copy of the Safety Data Sheet when going for medical treatment.

**4.2 If inhaled**

No special treatment required.

**4.3 In case of skin contact**

Wipe off excess material with cloth or paper. Use a waterless hand cleaner to remove as much of the remaining material as possible. Wash with soap and water.

**4.4 In case of eye contact**

If contact with eyes, immediately hold eyelids apart and flush with plenty of water for at least 15 min.

**4.5 If swallowed**

No special treatment required.

**5. Fire-fighting measures****5.1 Flammable properties:**

Property:	Value:	Method:
Flash point.....	> 200 °C (> 392 °F)	(DIN 51376)
Boiling point/boiling range .....	not applicable	
Lower explosion limit.....	exempt	
Upper explosion limit.....	exempt	
Ignition temperature .....	> 400 °C (> 752 °F)	(DIN 51794)

**5.2 Fire and explosion hazards:**

Caution! Under certain conditions this material may generate flammable hydrogen gas. Consider possible formation of explosive mixtures with air, for example in uncleaned containers by moisture. Never use welding or cutting torch on or near any container of this material, even if empty, because an explosion could occur. Spontaneous ignition is possible due to electrostatic discharge. The generation of hydrogen gas is increased under circumstances mentioned in Sect. 10 "Stability and reactivity". Explosion limits for hydrolysis product hydrogen: 4-75.6% v/v.

**5.3 Recommended extinguishing media:**

carbon dioxide , dry sand , alcohol-resistant foam .

**5.4 Unsuitable extinguishing media:**

Water, dry chemical, halones.

**SAFETY DATA SHEET**

Material: 60044102

SEMICOSIL® 987 GR

Version 1.11 (US)

Print Date 09/29/2025

Date of last alteration: 07/28/2025

**5.5 Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases**

Hazardous decomposition products: carbon dioxide , carbon monoxide , formaldehyde , silicon dioxide , benzene and incompletely burnt hydrocarbons .

**5.6 Fire fighting procedures:**

Fire fighters should wear full protective clothing including a self-contained breathing apparatus. Cool endangered containers with water. Hydrogen gas can become trapped under foam blankets, so sources of ignition must be eliminated during the clean-up and recovery process.

**6. Accidental release measures****6.1 Precautions:**

Secure the area. Wear personal protection equipment (see section 8). Keep unprotected persons away. Avoid contact with eyes and skin. Do not inhale gases/vapours/aerosols. If material is released indicate risk of slipping. Do not walk through spilled material.

**HAZWOPER PPE Level: D**

**6.2 Containment:**

Prevent material from entering surface waters, drains or sewers and soil. Close leak if possible without risk. Retain contaminated water/extinguishing water. Dispose of in prescribed marked containers. Inform authorities if substance leaks into surface waters, sewerage or ground.

Spills of material which could reach surface waters must be reported to the United States Coast Guard National Response Center's toll free phone number (800) 424-8802.

**6.3 Methods for cleaning up**

Scoop up large quantities after dusting surfaces with sand or Fuller's earth to prevent sticking. Sweep or scrape up the spilled material and place in an appropriate chemical waste container. 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 Further information:**

Exhaust vapours. Eliminate all sources of ignition. Consider explosion protection. Material designated for disposal must be segregated from incompatible substances or materials specified in Sect. 10. Do not blend contaminated material with uncontaminated material. Do not seal collecting vessel gas-tight. Observe notes under section 7.

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

Ensure adequate ventilation. Must be syphoned off in situ. Open and handle container with care. Keep container closed when not in use. Keep away from incompatible substances in accordance with section 10. Where possible, inert process equipment and blanket vessels, tanks and containers with nitrogen to reduce the available oxygen level. Contact WACKER for additional publications on the safe Handling of SiH Products. Observe information in section 8.

**Precautions against fire and explosion:**

Product can release hydrogen. Product can separate methanol. 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:**

Do not store in virgin glass containers with basic surface. Observe local/state/federal regulations.

**Advice for storage of incompatible materials:**

Do not store with: basic substances (e.g. alkalis, ammonia, amines) , oxidizing agents , strong acids . Observe local/state/federal regulations.

**Further information for storage:**

Store in a dry and cool place. Protect against moisture. Store container in a well ventilated place.

**Minimum temperature allowed during storage and transportation: 5 °C (41 °F)**

**SAFETY DATA SHEET**

Material: 60044102

SEMICOSIL® 987 GR

Version 1.11 (US)

Print Date 09/29/2025

Date of last alteration: 07/28/2025

Maximum temperature allowed during storage and transportation: 25 °C (77 °F)

**8. Exposure controls and personal protection****8.1 Engineering controls****Ventilation:**

Use only with adequate ventilation.

**Local exhaust:**

Local exhaust ventilation which meets the requirements of ANSI Z9.2 is recommended to control airborne contaminants at the point of use.

**8.2 Associate substances with specific control parameters such as limit values**

none known

**8.3 Personal protection equipment (PPE)****Respiratory protection:**

Respiratory protection is not normally required.

**Hand protection:**

Recommendation: butyl rubber protective gloves , neoprene gloves , PVC gloves .

**Eye protection:**

Safety glasses with side shields or chemical safety goggles.

**Other protective clothing or equipment:**

Additional protective clothing or equipment is not normally required. Provide eye bath and safety shower.

**8.4 General hygiene and protection measures:**

When handling do not eat, drink, smoke or apply cosmetics. Wash thoroughly after handling.

**9. Physical and chemical properties****9.1 Information on basic physical and chemical properties**

Property:	Value:	Method:
Physical state .....	liquid	
Form .....	paste	
Colour .....	grey	
Odour .....	weak	
Odour Threshold .....	no data available	
Melting point .....	not applicable	
Boiling point/boiling range .....	not applicable	
Lower explosion limit .....	exempt	
Upper explosion limit .....	exempt	
Flash point .....	> 200 °C	(DIN 51376)
Ignition temperature .....	> 400 °C	(DIN 51794)
Thermal decomposition .....	> 250 °C	
pH .....	Not applicable. Insoluble in water.	
Viscosity, kinematic .....	no data available	
Viscosity, dynamic .....	300000 mPa.s at 23 °C	
Water solubility .....	practically insoluble	
Partition coefficient: n-octanol/water .....	not applicable	
Vapour pressure .....	not applicable	
Density .....	1.1 g/cm <sup>3</sup>	(DIN 53479)
Relative vapour density .....	no data available	
Particle Size Distribution .....	Not applicable.	

**SAFETY DATA SHEET**

Material: 60044102

SEMICOSIL® 987 GR

Version 1.11 (US)

Print Date 09/29/2025

Date of last alteration: 07/28/2025

**9.2 Other information**

Hydrolysis products reduce the flash point. Explosion limits for released methanol: 5.5 - 44%(V). Explosion limits for released hydrogen: 4 - 75.6%(V). According to previous experience autoignition of SiH containing products on a catalytically active surface may occur at a much lower temperature than expected. This applies to porous or fibrous substances including those with alkaline surfaces, such as thermal insulation and cementaceous insulating materials.

<b>Property:</b>	<b>Value:</b>	<b>Method:</b>
Evaporation rate.....:	no data available	
Molecular weight.....:	not applicable	

**10. Stability and reactivity****10.1 General information:**

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

**10.2 Conditions to avoid**

Moisture, heat, open flames, and other sources of ignition. Contact with contaminated piping or vessels or with corroded and rusty containers can increase the rate of hydrogen formation. Observe information in section 7.

**10.3 Materials to avoid**

Proton-active substances. Reacts with acids, basic substances (e.g. alkalis, ammonia, amines), alcohols, water, moisture, oxidizing agents, catalysts. The reaction takes place with the formation of hydrogen and methanol.

**10.4 Hazardous decomposition products**

Methanol by hydrolysis. Upon contact with the substances mentioned in 10: hydrogen. Measurements have shown the formation of small amounts of formaldehyde at temperatures above about 150 °C (302 °F) through oxidation. Measurements have shown the formation of small amounts of benzene at temperatures above about 180 °C (356 °F).

**10.5 Further information:**

Hazardous polymerization cannot occur.

**11. Toxicological information****11.1 Information on toxicological effects****11.1.1 General information**

Data derived for the product as a whole are of higher priority than data for single ingredients.

**11.1.2 Acute toxicity****Product details:**

Exposure routes	Result/Effect
Oral	LD50 > 2000 mg/kg Species: Rat, Source: Conclusion by analogy
dermal	LD50 > 2000 mg/kg Species: Rabbit, Source: Conclusion by analogy

**11.1.3 Skin corrosion/irritation****Assessment:**

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

**11.1.4 Serious eye damage/eye irritation****Product details:**

No eye irritation  
(Species: Rabbit, Method: OECD 405)

**SAFETY DATA SHEET**

Material: 60044102

SEMICOSIL® 987 GR

Version 1.11 (US)

Print Date 09/29/2025

Date of last alteration: 07/28/2025

**11.1.5 Respiratory or skin sensitisation****Assessment:**

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

**Product details:**

Exposure routes	Result
Inhalation	No data available.

**11.1.6 Germ cell mutagenicity****Assessment:**

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

**11.1.7 Carcinogenicity****Assessment:**

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

**11.1.8 Reproductive toxicity****Assessment:**

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

**11.1.9 Specific target organ toxicity - single exposure****Assessment:**

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

**11.1.10 Specific target organ toxicity - repeated exposure****Assessment:**

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

**11.1.11 Aspiration hazard****Assessment:**

Based on the physical-chemical properties of the product no aspiration hazard must be expected.

**11.1.12 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.

**11.1.13 Further toxicological information**

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA. Titanium dioxide (rutile) has been classified by IARC as carcinogen group 2B ("possibly carcinogenic to humans").

Other information: None known.

**Data on substances:****Product of hydrolysis (Methanol):**

Methanol (CAS 67-56-1) is readily and rapidly absorbed at all exposure routes and is toxic by all routes. Methanol may cause irritation of the mucosa, as well as nausea, vomiting, headaches, vertigo and visual disorders, including blindness (irreversible damage to the optic nerve), acidosis, spasms, narcosis and coma. There may be a delay in the onset of these effects after exposure.

**12. Ecological information**

**SAFETY DATA SHEET**

Material: 60044102

SEMICOSIL® 987 GR

Version 1.11 (US)

Print Date 09/29/2025

Date of last alteration: 07/28/2025

**12.1 Toxicity****Assessment:**

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

**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.

**12.7 Other adverse effects**

none known

**13. Disposal considerations****13.1 Product disposal**

Recommendation:

Risk of oxyhydrogen formation upon contact with the substances mentioned in 10. Material designated for disposal must be segregated from incompatible substances or materials specified in Sect. 10. Wastes of this material should not be mixed with other wastes. Provide measures such as vented bungs to ensure pressure relief in the waste containers. 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.

**13.2 Packaging disposal**

Recommendation:

Containers may contain hazardous quantities of hydrogen gas. Uncleaned containers should not be reused to hold another material due to the potential for reaction between residual product and incompatible materials. 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.

**14. Transport information****14.1 US DOT & CANADA TDG SURFACE**

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

**SAFETY DATA SHEET**

Material: 60044102

SEMICOSIL® 987 GR

Version 1.11 (US)

Print Date 09/29/2025

Date of last alteration: 07/28/2025

**15. Regulatory information****15.1 U.S. Federal regulations****TSCA inventory status and TSCA information:**

This material or its components are listed on or are in compliance with the requirements of the TSCA Chemical Substance Inventory.

**TSCA 12(b) Export Notification:**

This material does not contain reportable amounts of any TSCA 12(b) listed chemicals.

**CERCLA Regulated Chemicals:**

This material does not contain any CERCLA regulated chemicals.

**SARA 302 EHS Chemicals:**

This material does not contain any SARA extremely hazardous substances.

**SARA 311/312 Hazard Class:**

No SARA Hazards

**SARA 313 Chemicals:**

This material does not contain any SARA 313 chemicals above de minimus levels.

**HAPS (Hazardous Air Pollutants):**

CAS-No.	Chemical	Upper limit
68187-11-1	Aluminium chromium cobalt spinels	<=0.0285 %
108-88-3	Toluene	<=0.0286 %
67-56-1	Methanol	<=0.0018 %

**15.2 US State Regulations****US. California Safe Drinking Water & Toxic Enforcement Act (Proposition 65)****California Proposition 65 Carcinogens:**

1317-80-2 Rutile Titanium Dioxide  
1333-86-4 Carbon black (non nano)

**California Proposition 65 Reproductive Toxins:**

108-88-3 Toluene  
67-56-1 Methanol

**Massachusetts Right To Know**

Product does not contain any listed chemicals

**15.3 Details of international registration status**

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

Japan ..... : **ENCS** (Handbook of Existing and New Chemical Substances):  
This product is listed in, or complies with, the substance inventory.

China..... : **IECSC** (Inventory of Existing Chemical Substances in China):  
This product is listed in, or complies with, the substance inventory.

Canada ..... : **DSL** (Domestic Substance List):  
This product is not listed or in compliance with the substance inventory.

Philippines..... : **PICCS** (Philippine Inventory of Chemicals and Chemical Substances):  
This product is not listed or in compliance with the substance inventory.

United States of America (USA)..... : **TSCA** (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 ..... : **TCSI** (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.

**SAFETY DATA SHEET**

Material: 60044102

SEMICOSIL® 987 GR

Version 1.11 (US)

Print Date 09/29/2025

Date of last alteration: 07/28/2025

European Economic Area (EEA)..... : **REACH** (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) ..... : **AREC** (Act on Registration and Evaluation of Chemicals; "K-REACH"):  
 Please approach your regular contact for more detailed information.

**16. Other information****16.1 Additional information:**

This Safety Data Sheet (SDS) meets the requirements of the Federal OSHA Hazard Communication Standard (29 CFR 1910.1200). This information relates to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is to the best of our knowledge and belief accurate and reliable as of the date compiled. However, no representation, warranty or guarantee expressed or implied, is made as to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use. We do not accept liability for any loss or damage that may occur from the use of this information. Nothing herein shall be construed as a recommendation for uses which infringe valid patents or as extending a license under valid patents. This SDS provides selected regulatory information on this product, including its components. This is not intended to include all regulations. It is the responsibility of the user to know and comply with all applicable rules, regulations and laws relating to the product being used.

Vertical lines in the left-hand margin indicate changes compared with the previous version.

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 Glossary of Terms:**

ACGIH - American Conference of Governmental Industrial Hygienists	ppm - Parts per Million
DOT - Department of Transportation	SARA - Superfund Amendments and Reauthorization Act
hPa - Hectopascals	STEL - Short Term Exposure Limit
mPa*s - Milli Pascal-Seconds	TSCA - Toxic Substances Control Act
OSHA - Occupational Safety and Health Administration	TWA - Time Weighted Average
PEL - Permissible Exposure Limit	

<b>Flash point determination methods</b>	<b>Common name</b>
ASTM D56.....	Tagliabue (Tag) closed cup
ASTM D92, DIN 51376, ISO 2592 .....	Cleveland open cup
ASTM D93, DIN 51758, ISO 2719 .....	Pensky-Martens closed cup
ASTM D3278, DIN 55680, ISO 3679 .....	Setaflash or Rapid closed cup
DIN 51755.....	Abel-Pensky closed cup

**16.3 Conversion table:**

Pressure:.....: 1 hPa \* 0.75 = 1 mm Hg = 1 torr; 1 bar = 1000 hPa  
 Viscosity:.....: 1 mPa\*s = 1 centipoise (cP)