WACKER

SAFETY DATA SHEET

Material: 60062831 **SEMICOSIL® 964 SAMPLE**

Version 3.4 (US) Print Date 12/03/2024 Date of last alteration: 09/13/2024

1. Product and company identification

1.1 Identification of the substance or preparation:

Trade name	**SEMICOSIL® 964 SAMPLE**
Product group:	RTV Silicone Rubber
Use of the Substance/Mixture	Industrial. Adhesive / sealant .

1.2 Company/undertaking identification:

Manufacturer/distributor:	Wacker Chemical Corporation 4950 S State Road Ann Arbor, MI 48108 USA
Customer information:	InfoLine: Tel (517) 264-8240 Hours of operation: Monday - Friday, 8 am to 5 pm (eastern standard time) Corporate website: www.wacker.com
Emergency 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):

Classification	H-Code
Skin corrosion/irritation, Category 2	H315
Serious eye damage/eye irritation, Category 1	H318
Reproductive toxicity, Category 2	H361f
Reproductive toxicity, Category 2	H361d

2.2 Label elements

GHS-Labelling:

Pictogram(s):

Signal word: Danger

H-Code	Hazard statements
H315	Causes skin irritation.
H318	Causes serious eye damage.
H361	Suspected of damaging fertility or the unborn child.

P-Code	Precautionary statements
P103	Read label before use.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P332 + P313	If skin irritation occurs: Get medical advice/ attention.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313	If eye irritation persists: Get medical advice/ attention.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P404	Store in a closed container.
P501	Dispose of contents/container to waste disposal.

2.3 Other hazards

Inhalation of aerosol spray may damage health.
This material releases cyclohexylamine upon moisture curing. Upon completion of the curing process, cyclohexylamine will no longer be released.
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+auxiliary+Aminosilane

3.2 Information on ingredients:

Type	CAS-No.	Substance	Content [wt. %]		Note
			Lower	Upper	
VERU	108-88-3	Toluene	0.1	<0.5	R
INHA	15901-40-3	Methyl tricyclohexylamino silane	10.0	30.0	
VERU	108-91-8	Cyclohexylamine	>=0.1	<0.5	R

Type: HYD - by-product upon hydrolysis, INHA - ingredient, NEBE - by-product, MONO - residual monomer, VERU - impurity, VUL - by-product upon vulcanization. *** **Note:** C1 - IARC carcinogen, C2 - NTP carcinogen, C3 - OSHA carcinogen, NH - non-hazardous, R - reproductive toxin.

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.

The product contains the following substances of very high concern (Regulation (EC) No. 1907/2006 (REACH), Article 57) in amounts ≥ 0.1%:

Type	CAS-No.	Substance	Content [%]
INHA	206-44-0	Fluoranthene	>=0.1– <0.3

Type: INHA: ingredient, VERU: impurity

4. First-aid measures

4.1 General information:

Get medical attention immediately.

4.2 If inhaled

If inhaled remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult give oxygen.

4.3 In case of skin contact

For skin contact, immediately wipe away excess material. 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 flush eyes with plenty of water for at least 15 min. Keep eyelids well open to rinse the whole eye surface and eyelids with water.

4.5 If swallowed

For Ingestion, if conscious, give no more than two glasses of water and induce vomiting. Vomiting can be induced by giving Syrup of Ipecac. Give fluids until the vomitus is clear.

5. Fire-fighting measures

5.1 Flammable properties:

Property:		Value:	Method:
Flash point	:	109 °C (228 °F)	(ASTM D93)
Boiling point/boiling range	:	no data available	
Lower explosion limit	:	no data available	
Upper explosion limit	:	no data available	
Ignition temperature	:	No data available.	
NFPA Hazard Class (comb./flam.liquid)	:	IIIB	

5.2 Fire and explosion hazards:

This material will burn with a lazy smoldering flame. Ignitable vapors may be released during processing or curing. Hydrolyzes on contact with moisture releasing ignitable, corrosive vapors.

5.3 Recommended extinguishing media:

Alcohol Resistant (AR) Fluorine Free Foam (F3). Carbon dioxide. Dry chemical. Water may be used to cool tanks and structures adjacent to the fire.

5.4 Unsuitable extinguishing media:

Water may be ineffective in controling fires of this material. Do not use water to fight these fires.

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

Hazardous combustion products: Various hydrocarbon fragments , carbon dioxide , formaldehyde , carbon monoxide , silicon dioxide , nitrogen oxides .

5.6 Fire fighting procedures:

Full turn-out gear and Self Contained Breathing Apparatus (SCBA) should be worn when fighting large fires.

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: C

6.2 Containment:

Prevent material from entering surface waters, drains or sewers and soil. Close leak if possible without risk. Contain any fluid that runs out using suitable material (e.g. earth). 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

Take up mechanically and dispose of according to local/state/federal regulations. Do not flush away with water. For small amounts: Absorb with a neutral (non-acidic / non-basic) liquid binding material such as diatomaceous earth and dispose of according to government regulations. For large amounts: Liquids may be recovered using suction devices or pumps. If flammable, only air driven or properly rated electrical equipment should be used. Clean any slippery coating that remains using a detergent / soap solution or another biodegradable cleaner. Silicone fluids are slippery; spills are a safety hazard. Apply sand or other inert granular material to improve traction.

6.4 Further information:

Exhaust vapours. Eliminate all sources of ignition. Consider explosion protection. Observe notes under section 7.

7. Handling and storage

7.1 Handling

Precautions for safe handling:
Avoid formation of aerosols. In case of aerosol formation special protective measures are required (exhausting by suction, respiratory protection). Spilled substance increases risk of slipping. Observe information in section 8. Keep away from incompatible substances in accordance with section 10.

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:
Observe local/state/federal regulations.

Advice for storage of incompatible materials:
Observe local/state/federal regulations.

Further information for storage:
Store in a dry and cool place. Store container in a well ventilated place.

8. Exposure controls and personal protection

8.1 Engineering controls

Ventilation:
Use 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

Maximum airborne concentrations at the workplace:

Substance	Type	mg/m³	ppm	Dust fract.
Toluene	OSHA PEL		200.0	
Cyclohexylamine	ACGIH TWA		10.0	
Toluene	ACGIH TWA		20.0	

Re Toluene (CAS-no. 108-88-3): carcinogenicity: A4 (ACGIH); ceiling is 300 ppm, maximum peak is 500 ppm for a duration of 10 minutes (OSHA Table Z-2).

none known

8.3 Personal protection equipment (PPE)

Respiratory protection:
Respiratory protection is only necessary if long term or high level exposures are likely to occur. A NIOSH approved air purifying respirator equipped with universal multi-contaminant, multi-gas/vapor cartridges and at least P-99 solid/aerosol particulate filters is recommended if overexposure to dusts, mists, or vapors could occur. If eye-irritating dusts or vapors are present, a full-face respirator should be worn.

Hand protection:
butyl rubber protective gloves

Eye protection:
Safety glasses with side shields. Additional eye and face protection, splash-proof goggles, hood, full-faced respirator, or face shield is recommended if splashing could occur.

Other protective clothing or equipment:
Provide eye bath and safety shower. Additional skin protection, such as SARANEX coated Tyvek apron, over-sleeves, lab coat, coveralls, or protective suit should be worn if splashing could occur.

8.4 General hygiene and protection measures:

Avoid breathing dust/vapor/mist/gas/aerosol. Wash thoroughly after handling. Avoid contact with eyes, skin and clothing.

9. Physical and chemical properties

9.1 Appearance

Physical state	:	liquid
Colour	:	blue
Odour	:	ammoniacal, fishy

9.2 Safety data

Property:		**Value:**	**Method:**
Melting point	:	no data available	
Boiling point/boiling range	:	no data available	
Flash point	:	109 °C (228 °F)	(ASTM D93)
Ignition temperature	:	No data available.	
Lower explosion limit	:	no data available	
Upper explosion limit	:	no data available	
Vapour pressure	:	no data available	
Density	:	1.0 g/cm³ at 25 °C (77 °F)	
Water solubility	:	insoluble	
pH	:	Not applicable. Insoluble in water.	
Partition coefficient: n-octanol/water	:	not applicable	
Viscosity, dynamic	:	800 mPa.s	
Viscosity, kinematic	:	not applicable	

9.3 Further information

No data available.

Odour Threshold	:	no data available	
VOC Released During Cure	:	100 g/l	(Estimated Value)
Corrosive to Steel or Aluminum	:	Not corrosive to steel or aluminum.	
Thermal decomposition	:	no data available	

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

Heat, open flames, and other sources of ignition.

10.3 Materials to avoid

None known.

10.4 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.

10.5 Further information:

Hazardous polymerization cannot occur.

11. Toxicological information

11.1 Information on toxicological effects

11.1.1 Acute toxicity

Assessment:

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

Acute toxicity estimate (ATE):
ATE_{mix} (dermal): > 5000 mg/kg
ATE_{mix} (Oral): > 5000 mg/kg

11.1.2 Skin corrosion/irritation

Assessment:

Irritation of the skin must be expected. Due to a strong adherence to the skin symptoms of skin corrosion cannot be excluded after removing the substance mechanically.

Product details:

not corrosive (Test system: In Vitro Membrane Barrier Test Method for Skin Corrosion - CORROSITEX, Source: Conclusion by analogy)

11.1.3 Serious eye damage/eye irritation

Assessment:

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

11.1.4 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.

11.1.5 Germ cell mutagenicity

Assessment:

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

11.1.6 Carcinogenicity

Assessment:

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

11.1.7 Reproductive toxicity

Assessment:

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

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.

11.1.10 Aspiration hazard

Assessment:

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

11.1.11 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.

11.1.12 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 probable, possible or confirmed human carcinogen by IARC. 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.

Other information: Hydrolysis product / impurity: Cyclohexylamine (CAS RN 108-91-8) is corrosive to skin and eyes and shows moderate toxic effects after oral administration as well as distinct toxic effects after dermal administration. Exposure to vapour causes irritation of the upper respiratory tract and the eyes. In animal experiments reproductive effects were observed.

12. Ecological information

12.1 Toxicity

Assessment:

For the product as a whole, no test data is available.

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

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:
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:
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
Other Information .....: GHS Severe Eye Damage only. No Corrosive Class 8 DOT Diamond Required!

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

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:
Reproductive toxicity. Skin corrosion or irritation. Serious eye damage or eye irritation. Respiratory or skin sensitisation

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 wt. %
206-44-0	Fluoranthene	<=0.0300
108-88-3	Toluene	<=0.1546
67-56-1	Methanol	<=0.0004

15.2 US State Regulations

US. California Safe Drinking Water & Toxic Enforcement Act (Proposition 65)

This material does not contain any chemicals known to the State of California to cause cancer.

California Proposition 65 Reproductive Toxins:
108-88-3 Toluene
67-56-1 Methanol

Massachusetts Right To Know
108-91-8 Cyclohexylamine
107-15-3 1,2-Diaminoethane

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.

Australia	**AIIC** (Australian Inventory of Industrial Chemicals): 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.
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.
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. 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
DOT - Department of Transportation
hPa - Hectopascals
mPa*s - Milli Pascal-Seconds
OSHA - Occupational Safety and Health Administration
PEL - Permissible Exposure Limit
ppm - Parts per Million
SARA - Superfund Amendments and Reauthorization Act
STEL - Short Term Exposure Limit
TSCA - Toxic Substances Control Act
TWA - Time Weighted Average

Flash point determination methods	**Common name**
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)