Safety Data Sheet

Material: 60004790

WACKER

WACKER SilGel® 612 A

Date of last alteration: 11/09/2022

Version	2.5	(US)
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Print Date 12/21/2022

1.	Product and company identification	on	
1.1	Identification of the substance or preparation:		
I	Trade name Product group:	WACKER SilGel® 612 A Silicone Gel	
	Use of the Substance/Mixture	Industrial. Potting compound	
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

Classification (GHS):

Not a hazardous substance or mixture.

2.2 Label elements

Labelling (GHS):

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.

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

3.2 Information on ingredients:

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

Safety Data Sheet

Material: 60004790

Version 2.5 (US)

WACKER SilGel® 612 A

Date of last alteration: 11/09/2022

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.

Print Date 12/21/2022

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

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 hold eyelids apart and flush with plenty of water for at least 15 min.

4.5 If swallowed

No special treatment required.

- 4.6 Advice for the physician
- Treat symptomatically.

5. Fire-fighting measures

5.1 Flammable properties:

Property:	Value:	Method:
Flash point	> 242 °C (> 468 °F)	(ISO 2592)
Boiling point/boiling range		
Lower explosion limit:	exempt	
Upper explosion limit	exempt	
Ignition temperature:	> 450 °C (> 842 °F)	(DIN 51794)
NFPA Hazard Class (comb./flam.liquid):	IIIB	

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.

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 and incompletely burnt hydrocarbons .

Safety Data Sheet

Material: 60004790

WACKER SilGel® 612 A

Date of last alteration: 11/09/2022

Version 2.5 (US)

Print Date 12/21/2022

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. 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. 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. Use only air driven or properly rated electrical eqiupment. Use vented recovery containers. 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. 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. 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. 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.

Precautions against fire and explosion:

Product can release hydrogen. 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.

Safety Data Sheet

Material: 60004790

Version 2.5 (US)

WACKER

WACKER SilGel® 612 A

Print Date 12/21/2022

Date of last alteration: 11/09/2022

Exposure controls and personal protect	ion			
Engineering controls				
Ventilation: Use only with adequate ventilation.				
Local exhaust: Local exhaust ventilation which meets the requirement point of use.	ents of ANSI Z9.2 is recommend	ed to contro	l airborne co	ntaminants at t
Associate substances with specific control parar	neters such as limit values			
Maximum airborne concentrations at the workpla	ace:			
Substance	Туре	mg/m ³	ppm	Dust frac
none known				
Personal protection equipment (PPE)				
Respiratory protection: Respiratory protection is not normally required.				
Hand protection: butyl rubber protective gloves , neoprene gloves , PN	/C gloves .			
Eye protection: Safety glasses with side shields or chemical safety g	oggles.			
Other protective clothing or equipment:				
Additional protective clothing or equipment is not nor	mally required. Provide eye bat	h and safety	/ shower.	
	mally required. Provide eye bat	n and safety	/ shower.	
Additional protective clothing or equipment is not nor General hygiene and protection measures: Avoid contact with eyes, skin and clothing. When have hygiene practices when using this material. Wash the	ndling do not eat, drink, smoke c	-		w standard ind
Additional protective clothing or equipment is not nor General hygiene and protection measures: Avoid contact with eyes, skin and clothing. When have hygiene practices when using this material. Wash the Physical and chemical properties	ndling do not eat, drink, smoke c	-		w standard ind
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Additional protective clothing or equipment is not nor General hygiene and protection measures: Avoid contact with eyes, skin and clothing. When har hygiene practices when using this material. Wash the Physical and chemical properties Appearance Physical state Colour Odour Safety data Property: Melting point. Boiling point/boiling range Flash point. Ignition temperature Lower explosion limit. Upper explosion limit. Upper explosion limit. Vapour pressure. Density Water solubility Partition coefficient: n-octanol/water Viscosity, dynamic.	liquid colourless odourless odourless odourless Value: not applicable not applicable > 242 °C (> 468 °F) > 450 °C (> 842 °F) exempt exempt 1.00 g/cm³ at 20 °C (68 °F) practically insoluble at 20 °C (6 Not applicable. Insoluble in war not applicable 1000 mPa.s at 23 °C (73 °F)	or apply cos		Method: (ISO 2592) (DIN 51794)
Additional protective clothing or equipment is not nor General hygiene and protection measures: Avoid contact with eyes, skin and clothing. When har hygiene practices when using this material. Wash the Physical and chemical properties Appearance Physical state Colour Odour Safety data Property: Melting point. Boiling point/boiling range Flash point. Ignition temperature Lower explosion limit. Upper explosion limit. Vapour pressure. Density Water solubility Partition coefficient: n-octanol/water	liquid colourless odourless odourless odourless Value: not applicable not applicable > 242 °C (> 468 °F) > 450 °C (> 842 °F) exempt exempt 1.00 g/cm³ at 20 °C (68 °F) practically insoluble at 20 °C (6 Not applicable. Insoluble in war not applicable 1000 mPa.s at 23 °C (73 °F)	or apply cos		Method: (ISO 2592) (DIN 51794)

According to previous experience spontaneous combustion temperature for polymer siloxane with SIH compounds is above 240 °C (464 °F). On a catalytically active surface ignition may occur at much lower temperature. This applies to porous or fibrous substances including those with alkaline surfaces, such as thermal insulation and cementaceous insulating materials. Explosion limits for released hydrogen: 4 - 75.6%(V).

Safety Data Sheet

Material: 60004790

WACKER SilGel® 612 A

Version 2.5 (US)

Print Date 12/21/2022

Date of last alteration: 11/09/2022

Odour Threshold:	no data available
Thermal decomposition:	> 200 °C (> 392 °F)

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 violently with: acids , basic substances (e.g. alkalis, ammonia, amines) . Reacts with: alcohols , water , moisture , oxidizing agents , catalyst . The reaction takes place with the formation of hydrogen.

10.4 Hazardous decomposition products

In contact with incompatible substances this material may quickly generate a large volume of flammable hydrogen gas. 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

Product details:

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

11.1.2 Skin corrosion/irritation

Product details:

No skin irritation	
(Species: Rabbit, Source: Conclusion by analogy)	

11.1.3 Serious eye damage/eye irritation

Product details:

No eye ir	itation	
(Species:	Rabbit, Source: Conclusion by analogy)	

11.1.4 Respiratory or skin sensitisation

Product details:

Exposure routes	Result
Skin contact	Does not cause skin sensitisation. (Species: Guinea pig, Test system: Buehler Test, Method: OECD 406, Source: Conclusion by analogy)
Inhalation	No data available.

11.1.5 Germ cell mutagenicity

Assessment:

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

Safety Data Sheet

Material: 60004790

WACKER SilGel® 612 A

Version 2.5 (US) Print Date 12/21/2022 Date of last alteration: 11/09/2022

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:

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

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: None known.

12. Ecological information

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

No data available.

Safety Data Sheet

Material: 60004790

WACKER SilGel® 612 A

Version 2.5 (US)

Print Date 12/21/2022

Date of last alteration: 11/09/2022

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

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):

This material does not contain any hazardous air pollutants.

Safety Data Sheet

Material: 60004790 WACKER		WACKER	R SilGel® 612 A	
Versi	Version 2.5 (US)		Print Date 12/21/2022	Date of last alteration: 11/09/2022
15.2	U.S. State regulation California Propositio		/ater and Toxic Enforcement Act of 1986):	
	-		known to the State of California to cause canc	cer.
		-	known to the State of California to cause repr	
I	Massachusetts Subs	-		
I		to-Know Hazardous S no listed components.	ubstance List:	
15.3	Details of internation	nal registration status		
	Relevant information a	about individual substar	nce inventories, where available, is given below	۷.
	-		ENCS (Handbook of Existing and New Chem This product is listed in, or complies with, the	substance inventory.
	Australia	:	AIIC (Australian Inventory of Industrial Chemi This product is listed in, or complies with, the	
	China	:	IECSC (Inventory of Existing Chemical Subst This product is listed in, or complies with, the	ances in China):
	Canada	:	DSL (Domestic Substance List):	
	Philippines	::	This product is listed in, or complies with, the PICCS (Philippine Inventory of Chemicals and This product is listed in, or complies with, the	d Chemical Substances):
	United States of Amer	ica (USA):	TSCA (Toxic Substance Control Act Chemica All components of this product are listed as a	al Substance Inventory):
	Taiwan		substance inventory. TCSI (Taiwan Chemical Substance Inventory This product is listed in, or complies with, the The Taiwanese chemicals regulation requires or TCSI-compliant substances if imports to Ta exceed the trigger quantity of 100 kg/a (for m ingredient). It is the duty of the importing/man	substance inventory. General note: a phase 1 registration for TCSI-listed aiwan or manufacturing in Taiwan ixtures to be calculated per each
1	European Economic A	vrea (EEA):	this obligation. REACH (Regulation (EC) No 1907/2006): General note: the registration obligations for s manufactured within the EEA by the supplier the said supplier. The registration obligations by customers or other downstream users must	mentioned in section 1 are fulfilled by for substances imported into the EEA
	South Korea (Republic	c of Korea):	AREC (Act on Registration and Evaluation of Please approach your regular contact for mor	Chemicals; "K-REACH"):

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.

Safety Data Sheet

Material: 60004790

WACKER SilGel® 612 A

Date of last alteration: 11/09/2022

Version 2.5 (US)

Print Date 12/21/2022

16.2 Glossary of Terms:

ACGIH - American Conference of Governmental Industrial
Hygienistsppm - Parts per Million
SARA - Superfund Amendments and Reauthorization Act
STEL - Short Term Exposure Limit
TSCA - Toxic Substances Control Act
TWA - Time Weighted AverageDOT - Department of Transportation
hPa - Hectopascals
mPa*s - Milli Pascal-Seconds
OSHA - Occupational Safety and Health Administration
PEL - Permissible Exposure LimitTCA - Toxic Substances Control Act
TWA - Time Weighted AverageFlash point determination methods
ASTM D56.Common name
Tagliabue (Tag) closed cup

ASTM D56	l agliabue (l ag) 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	
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)