

Safety Data Sheet

Material: 60007932

ELASTOSIL® M 4642 A

Version 1.6 (GHS_INT)

Print Date 09.09.2024

Date of last alteration: 06.12.2023

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

1.1 Product identifier

Commercial product name: ELASTOSIL® M 4642 A

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

Use of substance / preparation:

Industrial.

Raw material for: elastomer products .

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

+44 1235 239670

Emergency Information:

Africa and the Middle East

+44 1235 239671

Emergency Information:

Caribbean, Central America and South

+1 646 844 7309

America except Chile and Colombia

Emergency Information:

Pakistan

+65 3158 1329

Emergency Information:

Bangladesh

+65 3158 1200

Emergency Information:

East Asia and Southeast Asia except Sri

+65 3158 1074

Lanka, Bangladesh and Pakistan

Emergency Information:

Sri Lanka

+65 3158 1195

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

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.

SECTION 3: Composition/information on ingredients

3.1 Substances

not applicable

3.2 Mixtures

3.2.1 Chemical characteristics

Polydimethylsiloxane with functional groups and auxiliaries for addition cross-linking

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3.2.2 Hazardous ingredients

Type	CAS No.	Substance	Content %
INHA	14808-60-7	Quartz	>=1 – <3

Type: INHA: ingredient, VERU: impurity

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.

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:

Wipe off excess material with cloth or paper. 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:

Material cannot be inhaled under normal conditions.

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:

Fires can be controlled with water spray, foam or carbon dioxide. Larger fires are best fought with alcohol-resistant aqueous film forming foam (AFFF-AR).

Extinguishing media which must not be used for safety reasons:

water jet , extinguishing powder , halones .

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: toxic and very toxic fumes . With the use of water-based extinguishing agents care is required because hydrogen can be released, which accumulates after extinguishing the fire in poorly ventilated or confined areas and may refire or cause an explosion. Foam carpets may also include hydrogen or flammable vapors, which can lead to surface bursts. Remove sources of ignition during cleaning and absorbing.

5.3 Advice for firefighters

Special protective equipment for fire fighting:

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

General information:

Fires involving SiH polysiloxane materials can be difficult to extinguish under certain circumstances.

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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

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.

6.2 Environmental precautions

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.

6.3 Methods and material for containment and 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 equipment. 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.

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.

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

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 Conditions for safe storage, including any incompatibilities

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.

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:

exempt

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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, drink or smoke when handling.

Further information for system design and engineering measures

Observe information in section 7. Observe national regulatory requirements.

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: Filtering half-face mask, according to acknowledged standards such as EN 149.

Recommended Filter type: FFP1 or equivalent filter, according to acknowledged standards such as EN 149

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

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: > 0,1 mm

Breakthrough time: > 480 min

Recommended glove types: Protective gloves made of butyl rubber

thickness of the material: > 0,3 mm

Breakthrough time: > 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, drains or sewers and soil.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Property:	Value:	Method:
Appearance		
Physical state	liquid	
Colour	creamy	
Odour		
Odour	faint	
Odour limit		
Odour limit	no data available	
pH-Value		
pH-Value	Not applicable. Insoluble in water.	
Melting point/freezing point		
Melting point / melting range	exempt	
Initial boiling point and boiling range		
Boiling point / boiling range	exempt	
Flash point		
Flash point	310 °C	(DIN 51376)
Evaporation rate		
Evaporation rate	no data available	

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Upper/lower flammability or explosive limits

Lower explosion limit (LEL): exempt
 Upper explosion limit (UEL).....: no data available

Vapour pressure

Vapour pressure.....: exempt

Solubility(ies)

Water solubility / miscibility.....: practically insoluble

Vapour density

Relative gas/vapour density: no data available

Relative Density

Relative Density: 1,15 (23 °C; 1013 hPa) (not specified)
 (Water / 4 °C = 1,00)

Density: 1,15 g/cm³ (23 °C; 1013 hPa) (not specified)

Partition coefficient: n-octanol/water

Partition coefficient: n-octanol/water.....: not applicable

Auto-ignition temperature

Ignition temperature: 455 °C (DIN 51794)

Decomposition temperature

Thermal decomposition: 200 °C (Lit.)

Viscosity

Viscosity (dynamic): 20000 mPa.s at 23 °C (Brookfield)

Viscosity (kinematic).....: no data available

Molecular mass

Molecular mass: not applicable

9.2 Other information

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.

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

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.

10.5 Incompatible materials

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.

10.6 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.

SECTION 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: Expert judgement

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dermal	LD50 > 2000 mg/kg Species: Rat, Source: Expert judgement
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11.1.2 Skin corrosion/irritation

Product details:

No skin irritation (Species: Rabbit, Source: Expert judgement)

11.1.3 Serious eye damage/eye irritation

Product details:

No eye irritation (Species: Rabbit, Source: Expert judgement)
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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.

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.

11.2 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

None known.

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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.

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

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

13.1.2 Uncleaned packaging**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.

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

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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.

15.2 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.

Canada: **DSL** (Domestic Substance List):
 This product is listed in, or complies with, the substance inventory.

Philippines.....: **PICCS** (Philippine Inventory of Chemicals and Chemical Substances):
 This product is listed in, or complies 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.

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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. 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 -