

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 14.12.2022

Version number 11 (replaces version 10)

Revision: 14.12.2022

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

1.1 Product identifier

Trade name: **Sanitary Silicone**

Article number: 400xx, 401xx

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

No further relevant information available.

Application of the substance / the mixture

Silicate sealing

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier: AKEMI chemisch technische Spezialfabrik GmbH
Lechstrasse 28
D 90451 Nürnberg

Tel. +49(0)911-642960

Fax. +49(0)911-644456

e-mail info@akemi.de

Further information obtainable from:

Laboratory

1.4 Emergency telephone number:

Product Safety Department AKEMI chemisch technische Spezialfabrik GmbH
Tel. +49(0)911-64296-59
Reachable during the following office hours:
Monday – Thursday from 07:30 a.m. to 16:30 p.m.
Friday from 07:30 a.m. to 13:30 p.m.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 The product is not classified, according to the CLP regulation.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

Void

Hazard pictograms

Void

Signal word

Void

Hazard-determining components of labelling:

Not applicable.

Hazard statements

Void

Additional information:

Products treated with biocide OIT (CAS 26530-20-1).
Safety data sheet available on request.

2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Description: Mixture of substances listed below with nonhazardous additions.

Dangerous components:

CAS: 64742-46-7

EC number: 934-956-3

Reg.nr.: 01-2119552497-29-xxxx

Distillates (petroleum), hydrotreated middle

Asp. Tox. 1, H304

<12.5%

(Contd. on page 2)

EU

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 14.12.2022

Version number 11 (replaces version 10)

Revision: 14.12.2022

Trade name: Sanitary Silicone

(Contd. of page 1)

CAS: 4253-34-3 EINECS: 224-221-9 Reg.nr.: 01-2119962266-32-xxxx	methylsilanetriyl triacetate Skin Corr. 1B, H314 Acute Tox. 4, H302 EUH014	1-5%
CAS: 17689-77-9 EINECS: 241-677-4 Reg.nr.: 01-2119881778-15-xxxx	Triacetoxymethylsilane Skin Corr. 1B, H314; Eye Dam. 1, H318 Acute Tox. 4, H302 EUH014	1-5%
	Oligomeric Ethyl- and Methylacetoxysilane Skin Corr. 1B, H314 EUH014	1-5%

· Additional information: For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

· 4.1 Description of first aid measures

- General information: Immediately remove any clothing soiled by the product.
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Immediately wash with water and soap and rinse thoroughly.
If skin irritation continues, consult a doctor.
- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- After swallowing: Do not induce vomiting; call for medical help immediately.
Rinse out mouth and then drink plenty of water.

· 4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

· 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures

· 5.1 Extinguishing media

- Suitable extinguishing agents: CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

· For safety reasons unsuitable extinguishing agents:

Water with full jet

· 5.2 Special hazards arising from the substance or mixture

Under certain fire conditions, traces of other toxic gases cannot be excluded, e.g.:
Carbon monoxide (CO)
Sulphur dioxide (SO₂)

· 5.3 Advice for firefighters

- Protective equipment: Wear self-contained respiratory protective device.
Do not inhale explosion gases or combustion gases.
- Additional information Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation

(Contd. on page 3)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 14.12.2022

Version number 11 (replaces version 10)

Revision: 14.12.2022

Trade name: Sanitary Silicone

(Contd. of page 2)

- **6.2 Environmental precautions:** Particular danger of slipping on leaked/spilled product.
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:** Pick up mechanically.
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to item 13.
- **6.4 Reference to other sections** See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace.
- **Information about fire - and explosion protection:** No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Prevent any seepage into the ground.
- **Information about storage in one common storage facility:** Store away from foodstuffs.
- **Further information about storage conditions:** Store in cool, dry conditions in well sealed receptacles.
Protect from heat and direct sunlight.
- **Storage class:** 10
- **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**
- **Ingredients with limit values that require monitoring at the workplace:** The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

· **DNELs****4253-34-3 methylsilanetriyl triacetate**

Oral	DNEL (Kurzzeit-akut)	1 mg/kg bw/day (BEV)
	DNEL (Langzeit-wiederholt)	1 mg/kg bw/day (BEV)
Dermal	DNEL (Kurzzeit-akut)	14.5 mg/kg bw/day (ARB)
		7.2 mg/kg bw/day (BEV)
	DNEL (Langzeit-wiederholt)	14.5 mg/kg bw/day (ARB)
Inhalative		7.2 mg/kg bw/day (BEV)
	DNEL (Kurzzeit-akut)	61 mg/m ³ Air (ARB)
		5.1-6.3 mg/m ³ Air (BEV)
	DNEL (Langzeit-wiederholt)	25-31 mg/m ³ Air (ARB)
		5.1-6.3 mg/m ³ Air (BEV)

(Contd. on page 4)

EU

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 14.12.2022

Version number 11 (replaces version 10)

Revision: 14.12.2022

Trade name: Sanitary Silicone

(Contd. of page 3)

17689-77-9 Triacetoxymethylsilane

Inhalative	DNEL (Kurzzeit-akut)	65 mg/m ³ Air (BEV)
	DNEL (Langzeit-wiederholt)	32.5 mg/m ³ Air (ARB)
		10.8 mg/m ³ Air (BEV)

· PNECs**4253-34-3 methylsilanetriyl triacetate**

PNEC (wässrig)	6.9 mg/l (KA)
	0.1 mg/l (MW)
	1 mg/l (SW)
PNEC (fest)	0.19 mg/kg Trockengew (BO)
	0.48 mg/kg Trockengew (MWS)
	4.8 mg/kg Trockengew (SWS)

17689-77-9 Triacetoxymethylsilane

PNEC (wässrig)	1 mg/l (KA)
	0.02 mg/l (MW)
	0.2 mg/l (SW)
	1.7 mg/l (WAS)
PNEC (fest)	0.031 mg/kg Trockengew (BO)
	0.016 mg/kg Trockengew (MWS)
	0.16 mg/kg Trockengew (SWS)

· Additional information: The lists valid during the making were used as basis.· **8.2 Exposure controls**· Appropriate engineering controls No further data; see item 7.· Individual protection measures, such as personal protective equipment· General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Keep away from foodstuffs, beverages and feed.

Do not eat, drink, smoke or sniff while working.

Use skin protection cream for skin protection.

Clean skin thoroughly immediately after handling the product.

· Respiratory protection:

Not necessary if room is well-ventilated.

Use suitable respiratory protective device in case of insufficient ventilation.

Short term filter device:

Filter E

· Hand protection

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Preventive skin protection by use of skin-protecting agents is recommended.

After use of gloves apply skin-cleaning agents and skin cosmetics.

· Material of gloves

Butyl rubber, BR

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

(Contd. on page 5)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 14.12.2022

Version number 11 (replaces version 10)

Revision: 14.12.2022

Trade name: Sanitary Silicone

(Contd. of page 4)

- Not suitable are gloves made of the following materials:
 - Leather gloves
 - Strong material gloves
- Eye/face protection
 - Safety glasses
- Body protection:
 - Protective work clothing

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

- General Information
- Colour: Different according to colouring
- Odour: vinegary
- Odour threshold: Not determined.
- Melting point/freezing point: Undetermined.
- Boiling point or initial boiling point and boiling range Undetermined.
- Flash point: >150 °C
- Ignition temperature: 460 °C
- pH Not determined.
- Viscosity:
- Kinematic viscosity at 40 °C >20.5 mm²/s
- Dynamic: Not determined.
- Solubility
- water: Insoluble.
- Vapour pressure: Not determined.
- Density and/or relative density
- Density at 20 °C: 1.02 g/cm³

9.2 Other information

- Appearance:
- Form: Pasty
- Important information on protection of health and environment, and on safety.
- Auto-ignition temperature: Product is not selfigniting.
- Explosive properties: Product does not present an explosion hazard.

Information with regard to physical hazard classes

- Explosives Void
- Flammable gases Void
- Aerosols Void
- Oxidising gases Void
- Gases under pressure Void
- Flammable liquids Void
- Flammable solids Void
- Self-reactive substances and mixtures Void
- Pyrophoric liquids Void
- Pyrophoric solids Void
- Self-heating substances and mixtures Void
- Substances and mixtures, which emit flammable gases in contact with water Void
- Oxidising liquids Void
- Oxidising solids Void
- Organic peroxides Void
- Corrosive to metals Void

(Contd. on page 6)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 14.12.2022

Version number 11 (replaces version 10)

Revision: 14.12.2022

Trade name: Sanitary Silicone

(Contd. of page 5)

· Desensitised explosives Void**SECTION 10: Stability and reactivity**

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions**
 - Reacts with humid air.
 - Reacts with strong oxidising agents.
- **10.4 Conditions to avoid** moisture
- **10.5 Incompatible materials:** strong oxidizing agents
- **10.6 Hazardous decomposition products:**
 - Formaldehyde
 - Ethanoic acid

SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- Acute toxicity Based on available data, the classification criteria are not met.

· LD/LC50 values relevant for classification:**ATE (Acute Toxicity Estimates)**

Oral	LD50	20,319 mg/kg (rat)
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64742-46-7 Distillates (petroleum), hydrotreated middle

Oral	LD50	>5,000 mg/kg (rat)
	NOAEL	≥5,000 mg/kg (rat)
Dermal	LD50	>3,160 mg/kg (rabbit)
Inhalative	LC50	>5,266 mg/l (rat)

4253-34-3 methylsilanetriyl triacetate

Oral	LD50	1,540 mg/kg (rat)
Dermal	LD50	794 µl/kg (rabbit)

17689-77-9 Triacetoxymethylsilane

Oral	LD50	1,460 mg/kg (rat) (OECD 401)
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- Skin corrosion/irritation Based on available data, the classification criteria are not met.
- Serious eye damage/irritation Based on available data, the classification criteria are not met.
- Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- Germ cell mutagenicity Based on available data, the classification criteria are not met.
- Carcinogenicity Based on available data, the classification criteria are not met.
- Reproductive toxicity Based on available data, the classification criteria are not met.
- STOT-single exposure Based on available data, the classification criteria are not met.
- STOT-repeated exposure Based on available data, the classification criteria are not met.
- Aspiration hazard Based on available data, the classification criteria are not met.

11.2 Information on other hazards· Endocrine disrupting properties

None of the ingredients is listed.

(Contd. on page 7)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 14.12.2022

Version number 11 (replaces version 10)

Revision: 14.12.2022

Trade name: Sanitary Silicone

(Contd. of page 6)

SECTION 12: Ecological information**· 12.1 Toxicity****· Aquatic toxicity:****64742-46-7 Distillates (petroleum), hydrotreated middle**

EL50/72h >10,000 mg/l (Skeletonema costatum (Kieselalge))

LL50/96h >1,028 mg/l (Scophthalmus maximus (Steinbutt))

4253-34-3 methylsilanetriyl triacetate

EC50/48h 79.47 mg/l (daphnia magna)

EC50/72h 21.65 mg/l (Pseudokirchneriella subcapitata)

LC50/96h 96.58 mg/l (Oncorhynchus mykiss)

17689-77-9 Triacetoxethylsilane

EC50 >100 mg/l (BES)

IC50/72h 73 mg/l (Pseudokirchneriella subcapitata)

EC50/48h 62 mg/l (daphnia magna)

NOEC/21d ≥100 mg/l (daphnia magna)

EC50/48h 168.7 mg/l (daphnia magna)

EC50/72h 210 mg/l (Pseudokirchneriella subcapitata)

LC50/96h 251 mg/l (Danio rerio.)

· 12.2 Persistence and degradability

No further relevant information available.

· 12.3 Bioaccumulative potential

No further relevant information available.

· 12.4 Mobility in soil

No further relevant information available.

· 12.5 Results of PBT and vPvB assessment**· PBT:** Not applicable.**· vPvB:** Not applicable.**· 12.6 Endocrine disrupting properties**

The product does not contain substances with endocrine disrupting properties.

· 12.7 Other adverse effects**· Additional ecological information:****· General notes:**

Do not allow product to reach ground water, water course or sewage system.

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

SECTION 13: Disposal considerations**· 13.1 Waste treatment methods****· Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Can be disposed of with household garbage after solidification following consultation with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations.

· European waste catalogue

07 00 00 WASTES FROM ORGANIC CHEMICAL PROCESSES

07 02 00 wastes from the MFSU of plastics, synthetic rubber and man-made fibres

07 02 16* waste containing hazardous silicones

15 00 00 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED

15 01 00 packaging (including separately collected municipal packaging waste)

(Contd. on page 8)

Safety data sheet

according to 1907/2006/EC, Article 31

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Version number 11 (replaces version 10)

Revision: 14.12.2022

Trade name: Sanitary Silicone

(Contd. of page 7)

15 01 10* packaging containing residues of or contaminated by hazardous substances

· Uncleaned packaging:· Recommendation:

Disposal must be made according to official regulations.

Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.

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

· ADR, ADN, IMDG, IATA

Void

· **14.2 UN proper shipping name**

· ADR, ADN, IMDG, IATA

Void

· **14.3 Transport hazard class(es)**

· ADR, ADN, IMDG, IATA

· Class

Void

· **14.4 Packing group**

· ADR, IMDG, IATA

Void

· **14.5 Environmental hazards:**· Marine pollutant:

No

· **14.6 Special precautions for user**

Not applicable.

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

Not applicable.

· UN "Model Regulation":

Void

SECTION 15: Regulatory information· **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

· Directive 2012/18/EU

· Named dangerous substances - ANNEX I

None of the ingredients is listed.

· DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

· REGULATION (EU) 2019/1148· Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

· Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

· Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

· Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

(Contd. on page 9)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 14.12.2022

Version number 11 (replaces version 10)

Revision: 14.12.2022

Trade name: Sanitary Silicone

(Contd. of page 8)

- National regulations:
- Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.

- Substances of very high concern (SVHC) according to REACH, Article 57

None of the ingredients is listed.

- VOC EU 0.0 g/l

- **15.2 Chemical safety assessment:**

A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- Department issuing SDS: Laboratory
- Contact: Elke Hake
Fon ++49 (0)911 64296-59
@mail E.Hake@akemi.de
- Date of previous version: 14.12.2022

- Version number of previous version: 10

- Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
 IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
 ICAO: International Civil Aviation Organisation
 ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)
 ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
 IMDG: International Maritime Code for Dangerous Goods
 IATA: International Air Transport Association
 GHS: Globally Harmonised System of Classification and Labelling of Chemicals
 EINECS: European Inventory of Existing Commercial Chemical Substances
 ELINCS: European List of Notified Chemical Substances
 CAS: Chemical Abstracts Service (division of the American Chemical Society)
 DNEL: Derived No-Effect Level (REACH)
 PNEC: Predicted No-Effect Concentration (REACH)
 LC50: Lethal concentration, 50 percent
 LD50: Lethal dose, 50 percent
 PBT: Persistent, Bioaccumulative and Toxic
 SVHC: Substances of Very High Concern
 vPvB: very Persistent and very Bioaccumulative
 Acute Tox. 4: Acute toxicity – Category 4
 Skin Corr. 1B: Skin corrosion/irritation – Category 1B
 Eye Dam. 1: Serious eye damage/eye irritation – Category 1
 Asp. Tox. 1: Aspiration hazard – Category 1

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