



Safety Data Sheet according to (EC) No 1907/2006 as amended

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

1.1. Product identifier

Sista 2 in 1 grey

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

Intended use:

Joint sealant, polymer silan-modified

1.3. Details of the supplier of the safety data sheet

Henkel AG & Co. KGaA

Henkelstr. 67

40589 Düsseldorf

Germany

Phone: +49 211 797 0

SDSinfo.Adhesive@henkel.com

For Safety Data Sheet updates please visit our website <https://mysds.henkel.com/index.html#/appSelection> or www.henkel-adhesives.com.

1.4. Emergency telephone number

The Henkel information service also provides an around-the-clock telephone service on phone no.+49-(0)211-797-3350 for exceptional cases.

Further information is available at Poison Control Centers.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (CLP):

The substance or mixture is not hazardous according to Regulation (EC) No 1272/2008 (CLP).

2.2. Label elements

Label elements (CLP):

The substance or mixture is not hazardous according to Regulation (EC) No 1272/2008 (CLP).

Supplemental information

Contains: Trimethoxyvinylsilane May produce an allergic reaction.

Precautionary statement:

P102 Keep out of reach of children.

P101 If medical advice is needed, have product container or label at hand.

P262 Do not get in eyes, on skin, or on clothing.

2.3. Other hazards

Evolves methanol during cure.

Following substances are present in a concentration \geq the concentration limit for depiction in Section 3 and fulfill the criteria for PBT/vPvB, or were identified as endocrine disruptor (ED):

This mixture does not contain any substances in a concentration \geq the concentration limit for depiction in Section 3 that are assessed to be a PBT, vPvB or ED.

SECTION 3: Composition/information on ingredients

3.2. Mixtures**Declaration of the ingredients according to CLP (EC) No 1272/2008:**

| Hazardous components CAS-No. EC Number REACH-Reg No. | Concentration | Classification | Specific Conc. Limits, M-factors and ATEs | Add. Information |
|---|---------------|--|---|------------------|
| Trimethoxyvinylsilane 2768-02-7 220-449-8 01-2119513215-52 | 0,1- < 1 % | Flam. Liq. 3, H226 Acute Tox. 4, Inhalation, H332 STOT RE 2, H373 Skin Sens. 1B, H317 | | |

**For full text of the H - statements and other abbreviations see section 16 "Other information".
Substances without classification may have community workplace exposure limits available.**

SECTION 4: First aid measures

4.1. Description of first aid measures

General information:

In case of adverse health effects seek medical advice.

Inhalation:

Move to fresh air, consult doctor if complaint persists.

Skin contact:

Rinse with running water and soap. Apply replenishing cream. Change all contaminated clothing.

Eye contact:

Rinse immediately with plenty of running water, seek medical advice if necessary.

Ingestion:

Rinse mouth and throat. Drink 1-2 glasses of water. Seek medical advice.

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

No data available.

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

See section: Description of first aid measures

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

carbon dioxide, foam, powder, water spray jet, fine water spray

Extinguishing media which must not be used for safety reasons:

High pressure waterjet

5.2. Special hazards arising from the substance or mixture

In the event of a fire, carbon monoxide (CO) and carbon dioxide (CO₂) can be released.

5.3. Advice for firefighters

Wear self-contained breathing apparatus.

Wear protective equipment.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Wear protective equipment.

Avoid contact with skin and eyes.

Ensure adequate ventilation.

6.2. Environmental precautions

Do not empty into drains / surface water / ground water.

6.3. Methods and material for containment and cleaning up

Dispose of contaminated material as waste according to Section 13.

Remove mechanically.

6.4. Reference to other sections

See advice in section 8

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

Ensure that workrooms are adequately ventilated.

Avoid skin and eye contact.

Hygiene measures:

Wash hands before work breaks and after finishing work.

Do not eat, drink or smoke while working.

7.2. Conditions for safe storage, including any incompatibilities

Store in a cool place in closed original container.

Storage at 5 to 25°C is recommended.

Do not store together with food or other consumables (coffee, tea, tobacco, etc.).

7.3. Specific end use(s)

Joint sealant, polymer silan-modified

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational Exposure Limits

Valid for
Germany

| Ingredient [Regulated substance] | ppm | mg/m ³ | Value type | Short term exposure limit category / Remarks | Regulatory list |
|-----------------------------------|-----|-------------------|-------------------------------------|--|-----------------|
| Calcium carbonate 471-34-1 | | | Short Term Exposure Classification: | Category II: substances with a resorptive effect. | TRGS 900 |
| Calcium carbonate 471-34-1 | | 10 | Exposure limit(s): | 2 If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7). | TRGS 900 |
| Calcium carbonate 471-34-1 | | 1,25 | Exposure limit(s): | If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7). | TRGS 900 |
| Limestone 1317-65-3 | | | Short Term Exposure Classification: | Category II: substances with a resorptive effect. | TRGS 900 |
| Limestone 1317-65-3 | | 1,25 | Exposure limit(s): | If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7). | TRGS 900 |
| Limestone 1317-65-3 | | 10 | Exposure limit(s): | 2 If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7). | TRGS 900 |
| Methanol 67-56-1 [METHANOL] | 200 | 260 | Time Weighted Average (TWA): | Indicative | ECLTV |
| Methanol 67-56-1 | | | Skin designation: | Can be absorbed through the skin. | TRGS 900 |
| Methanol 67-56-1 | | | Short Term Exposure Classification: | Category II: substances with a resorptive effect. | TRGS 900 |
| Methanol 67-56-1 | 100 | 130 | Exposure limit(s): | 2 If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7). | TRGS 900 |

Predicted No-Effect Concentration (PNEC):

| Name on list | Environmental Compartment | Exposure period | Value | | | | Remarks |
|------------------------------------|------------------------------|-----------------|-----------|-----|------------|--------|---------|
| | | | mg/l | ppm | mg/kg | others | |
| Trimethoxyvinylsilane 2768-02-7 | aqua (freshwater) | | 0,4 mg/l | | | | |
| Trimethoxyvinylsilane 2768-02-7 | aqua (marine water) | | 0,04 mg/l | | | | |
| Trimethoxyvinylsilane 2768-02-7 | Freshwater - intermittent | | 1,21 mg/l | | | | |
| Trimethoxyvinylsilane 2768-02-7 | sediment (freshwater) | | | | 1,5 mg/kg | | |
| Trimethoxyvinylsilane 2768-02-7 | sediment (marine water) | | | | 0,15 mg/kg | | |
| Trimethoxyvinylsilane 2768-02-7 | Soil | | | | 0,06 mg/kg | | |

Derived No-Effect Level (DNEL):

| Name on list | Application Area | Route of Exposure | Health Effect | Exposure Time | Value | Remarks |
|------------------------------------|--------------------|-------------------|--|---------------|------------------------|---------|
| Trimethoxyvinylsilane 2768-02-7 | Workers | dermal | Long term exposure - systemic effects | | 0,91 mg/kg | |
| Trimethoxyvinylsilane 2768-02-7 | Workers | inhalation | Long term exposure - systemic effects | | 27,6 mg/m ³ | |
| Trimethoxyvinylsilane 2768-02-7 | General population | dermal | Long term exposure - systemic effects | | 0,63 mg/kg | |
| Trimethoxyvinylsilane 2768-02-7 | General population | inhalation | Long term exposure - systemic effects | | 6,8 mg/m ³ | |
| Trimethoxyvinylsilane 2768-02-7 | General population | oral | Long term exposure - systemic effects | | 0,63 mg/kg | |
| Trimethoxyvinylsilane 2768-02-7 | Workers | inhalation | Acute/short term exposure - systemic effects | | 73,6 mg/m ³ | |
| Trimethoxyvinylsilane 2768-02-7 | General population | inhalation | Acute/short term exposure - systemic effects | | 54,4 mg/m ³ | |

Biological Exposure Indices:

None

8.2. Exposure controls:

Respiratory protection:

Suitable breathing mask when there is inadequate ventilation.

Filter : AX (EN 14387)

This recommendation should be matched to local conditions.

Hand protection:

Recommended are gloves made from Nitril rubber (Material thickness >0,1 mm, Perforation time < 30s).Gloves should be replaced after each short time contact or contamination. Available at laboratory specialized trade or at pharmacies / chemist's shops.

Eye protection:

Goggles which can be tightly sealed.

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

| | |
|----------------------------|---|
| Delivery form | paste |
| Colour | Blue grey |
| Odor | specific |
| Physical state | solid |
| Melting point | 70 - 75 °C (158 - 167 °F) |
| Solidification temperature | Not applicable, Product is a solid. |
| Initial boiling point | 320 - 360 °C (608 - 680 °F) |
| Flammability | Not applicable Mixture is not readily combustible nor affected by friction. |
| Explosive limits | Not applicable, Product is a solid. |
| Flash point | Not applicable, Product is a solid. |
| Auto-ignition temperature | Not applicable, Product is a solid. |
| Decomposition temperature | Not applicable, Substance/mixture is not self-reactive, no organic peroxide and does not decompose under foreseen conditions of use |
| pH | Not applicable, Product is non-soluble (in water). |
| Viscosity (kinematic) | Not applicable, Product is a solid. |
| Viscosity, dynamic | Not available. |
| () | |
| Solubility (qualitative) | Insoluble |

| | |
|--|-------------------------------------|
| (20 °C (68 °F); Solvent: Water) | |
| Partition coefficient: n-octanol/water | Not applicable |
| | Mixture |
| Vapour pressure (20 °C (68 °F)) | < 0,5 Pa |
| Density (20 °C (68 °F)) | 1,39 g/cm ³ |
| Relative vapour density: | Not applicable, Product is a solid. |
| Particle characteristics | Not applicable, mixture is a paste. |

9.2. Other information

Other information not applicable for this product

SECTION 10: Stability and reactivity

10.1. Reactivity

None if used for intended purpose.

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

See section reactivity

10.4. Conditions to avoid

None if used for intended purpose.

10.5. Incompatible materials

None if used properly.

10.6. Hazardous decomposition products

Evolves methanol during cure.

SECTION 11: Toxicological information

General toxicological information:

An allergic reaction cannot be excluded after repeated skin contact.

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**Acute oral toxicity:**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances CAS-No. | Value type | Value | Species | Method |
|------------------------------------|---------------|-------------|---------|--|
| Trimethoxyvinylsilane 2768-02-7 | LD50 | 7.120 mg/kg | rat | OECD Guideline 401 (Acute Oral Toxicity) |

Acute dermal toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances CAS-No. | Value type | Value | Species | Method |
|------------------------------------|---------------|-------------|---------|--|
| Trimethoxyvinylsilane 2768-02-7 | LD50 | 3.200 mg/kg | rabbit | OECD Guideline 402 (Acute Dermal Toxicity) |

Acute inhalative toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances CAS-No. | Value type | Value | Test atmosphere | Exposure time | Species | Method |
|------------------------------------|---------------|-----------|-----------------|------------------|---------|--|
| Trimethoxyvinylsilane 2768-02-7 | LC50 | 16,8 mg/l | vapour | 4 h | rat | OECD Guideline 403 (Acute Inhalation Toxicity) |

Skin corrosion/irritation:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances CAS-No. | Result | Exposure time | Species | Method |
|------------------------------------|----------------|------------------|---------|------------------|
| Trimethoxyvinylsilane 2768-02-7 | not irritating | | rabbit | other guideline: |

Serious eye damage/irritation:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances CAS-No. | Result | Exposure time | Species | Method |
|------------------------------------|----------------|------------------|---------|---|
| Trimethoxyvinylsilane 2768-02-7 | not irritating | | rabbit | OECD Guideline 405 (Acute Eye Irritation / Corrosion) |

Respiratory or skin sensitization:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

| Hazardous substances CAS-No. | Result | Test type | Species | Method |
|------------------------------------|-------------|--------------|------------|---|
| Trimethoxyvinylsilane 2768-02-7 | sensitising | Buehler test | guinea pig | OECD Guideline 406 (Skin Sensitisation) |

Germ cell mutagenicity:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

| Hazardous substances CAS-No. | Result | Type of study / Route of administration | Metabolic activation / Exposure time | Species | Method |
|------------------------------------|----------|--|--|---------|--|
| Trimethoxyvinylsilane 2768-02-7 | negative | bacterial reverse mutation assay (e.g Ames test) | with and without | | OECD Guideline 471 (Bacterial Reverse Mutation Assay) |
| Trimethoxyvinylsilane 2768-02-7 | positive | in vitro mammalian chromosome aberration test | with and without | | OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test) |
| Trimethoxyvinylsilane 2768-02-7 | negative | mammalian cell gene mutation assay | with and without | | OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) |
| Trimethoxyvinylsilane 2768-02-7 | negative | intraperitoneal | | mouse | other guideline: |

Carcinogenicity

No data available.

Reproductive toxicity:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

| Hazardous substances CAS-No. | Result / Value | Test type | Route of application | Species | Method |
|------------------------------------|----------------------|-----------------------------|-------------------------|---------|---|
| Trimethoxyvinylsilane 2768-02-7 | NOAEL P 250 mg/kg | one- generation study | oral: gavage | rat | OECD Combined Repeated Dose and Reproductive / Developmental Toxicity Screening Test (Precursor Protocol of GL 422) |
| Trimethoxyvinylsilane 2768-02-7 | NOAEL P 1.000 mg/kg | one- generation study | oral: gavage | rat | OECD Combined Repeated Dose and Reproductive / Developmental Toxicity Screening Test (Precursor Protocol of GL 422) |
| Trimethoxyvinylsilane 2768-02-7 | NOAEL F1 1.000 mg/kg | one- generation study | oral: gavage | rat | OECD Combined Repeated Dose and Reproductive / Developmental Toxicity Screening Test (Precursor Protocol of GL 422) |

STOT-single exposure:

No data available.

STOT-repeated exposure:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

| Hazardous substances CAS-No. | Result / Value | Route of application | Exposure time / Frequency of treatment | Species | Method |
|------------------------------------|--------------------|-------------------------|--|---------|---|
| Trimethoxyvinylsilane 2768-02-7 | NOAEL < 62,5 mg/kg | oral: gavage | 42d daily | rat | OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test) |
| Trimethoxyvinylsilane 2768-02-7 | NOAEL 0,605 mg/l | inhalation: vapour | 5 days/week for 14 weeks 6 hours/day | rat | not specified |

Aspiration hazard:

No data available.

11.2 Information on other hazards

not applicable

SECTION 12: Ecological information

General ecological information:

Do not empty into drains, soil or bodies of water.

12.1. Toxicity

Toxicity (Fish):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

The table below presents the data of the classified substances present in the mixture.

| Hazardous substances CAS-No. | Value type | Value | Exposure time | Species | Method |
|------------------------------------|---------------|----------|---------------|---------------------|--|
| Trimethoxyvinylsilane 2768-02-7 | LC50 | 191 mg/l | 96 h | Oncorhynchus mykiss | OECD Guideline 203 (Fish, Acute Toxicity Test) |

Toxicity (aquatic invertebrates):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

The table below presents the data of the classified substances present in the mixture.

| Hazardous substances CAS-No. | Value type | Value | Exposure time | Species | Method |
|------------------------------------|---------------|------------|---------------|---------------|--|
| Trimethoxyvinylsilane 2768-02-7 | EC50 | 168,7 mg/l | 48 h | Daphnia magna | EU Method C.2 (Acute Toxicity for Daphnia) |

Chronic toxicity (aquatic invertebrates):

The table below presents the data of the classified substances present in the mixture.

| Hazardous substances CAS-No. | Value type | Value | Exposure time | Species | Method |
|------------------------------------|---------------|-----------|---------------|---------------|---|
| Trimethoxyvinylsilane 2768-02-7 | NOEC | 28,1 mg/l | 21 d | Daphnia magna | OECD 211 (Daphnia magna, Reproduction Test) |

Toxicity (Algae):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

The table below presents the data of the classified substances present in the mixture.

| Hazardous substances CAS-No. | Value type | Value | Exposure time | Species | Method |
|------------------------------------|---------------|------------|---------------|-------------------------|---------------------------------------|
| Trimethoxyvinylsilane 2768-02-7 | EC50 | > 957 mg/l | 72 h | Desmodesmus subspicatus | EU Method C.3 (Algal Inhibition test) |
| Trimethoxyvinylsilane 2768-02-7 | NOEC | 957 mg/l | 72 h | Desmodesmus subspicatus | EU Method C.3 (Algal Inhibition test) |

Toxicity (microorganisms):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

The table below presents the data of the classified substances present in the mixture.

| Hazardous substances CAS-No. | Value type | Value | Exposure time | Species | Method |
|------------------------------------|---------------|------------|---------------|---|--|
| Trimethoxyvinylsilane 2768-02-7 | EC50 | > 100 mg/l | 3 h | activated sludge of a predominantly domestic sewage | OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test) |

12.2. Persistence and degradability

The table below presents the data of the classified substances present in the mixture.

| Hazardous substances CAS-No. | Result | Test type | Degradability | Exposure time | Method |
|------------------------------------|----------------------------|-----------|---------------|------------------|---|
| Trimethoxyvinylsilane 2768-02-7 | not readily biodegradable. | aerobic | 51 % | 28 d | OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test) |

12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

The table below presents the data of the classified substances present in the mixture.

| Hazardous substances CAS-No. | PBT / vPvB |
|------------------------------------|---|
| Trimethoxyvinylsilane 2768-02-7 | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |

12.6. Endocrine disrupting properties

not applicable

12.7. Other adverse effects

No data available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product disposal:

Dispose of waste and residues in accordance with local authority requirements.

Disposal of uncleaned packages:

Use packages for recycling only when totally empty.

Waste code

080410

SECTION 14: Transport information

- 14.1. UN number or ID number**
Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.
- 14.2. UN proper shipping name**
Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.
- 14.3. Transport hazard class(es)**
Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.
- 14.4. Packing group**
Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.
- 14.5. Environmental hazards**
Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.
- 14.6. Special precautions for user**
Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.
- 14.7. Maritime transport in bulk according to IMO instruments**
not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

| | |
|---|----------------|
| Ozone Depleting Substance (ODS) (Regulation (EC) No 1005/2009): | Not applicable |
| Prior Informed Consent (PIC) (Regulation (EU) No 649/2012): | Not applicable |
| Persistent organic pollutants (Regulation (EU) 2019/1021): | Not applicable |

15.2. Chemical safety assessment

A chemical safety assessment has not been carried out.

National regulations/information (Germany):

WGK: WGK 1: slightly hazardous to water (Ordinance on facilities for handling substances that are hazardous to water (AwSV))
Classification according to AwSV, Annex 1 (5.2)

Storage class according to TRGS 510: 11

SECTION 16: Other information

The labelling of the product is indicated in Section 2. The full text of all abbreviations indicated by codes in this safety data sheet are as follows:

H226 Flammable liquid and vapour.

H317 May cause an allergic skin reaction.

H332 Harmful if inhaled.

H373 May cause damage to organs through prolonged or repeated exposure.

| | |
|-------------|---|
| ED: | Substance identified as having endocrine disrupting properties |
| EU OEL: | Substance with a Union workplace exposure limit |
| EU EXPLD 1: | Substance listed in Annex I, Reg (EC) No. 2019/1148 |
| EU EXPLD 2 | Substance listed in Annex II, Reg (EC) No. 2019/1148 |
| SVHC: | Substance of very high concern (REACH Candidate List) |
| PBT: | Substance fulfilling persistent, bioaccumulative and toxic criteria |
| PBT/vPvB: | Substance fulfilling persistent, bioaccumulative and toxic plus very persistent and very bioaccumulative criteria |
| vPvB: | Substance fulfilling very persistent and very bioaccumulative criteria |

Further information:

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