

## Safety data sheet

according to 1907/2006/EC, Article 31 / 2020/878/EU

Printing date 19.06.2024

Version number 1

Revision: 13.06.2024

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

- **Product identifier**
- **Trade name:** TWEHA 90-nine
- **Relevant identified uses of the substance or mixture and uses advised against**  
*No further relevant information available.*
- **Application of the substance / the mixture**  
*Adhesives*  
*Sealant*
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
*TWEHA B.V.*  
*Lepelstraat 1, bus 02.01*  
*B-3920 Lommel, België*  
*Tel.: +31 (0)88 999 31 31*  
*info@tweha.com*
- **Further information obtainable from:** *Product Safety Department*
- **Emergency telephone number:** *Giftinformationszentrum-Nord; Tel.: +49 (0)551 19240*

### SECTION 2: Hazards identification

- **Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**  
*The product is not classified, according to the GB CLP regulation.*
- **Label elements**
- **Labelling according to Regulation (EC) No 1272/2008** *Void*
- **Hazard pictograms** *Void*
- **Signal word** *Void*
- **Hazard statements** *Void*
- **Additional information:**  
*Contains trimethoxyvinylsilane. May produce an allergic reaction.*  
*Safety data sheet available on request.*  
*Warning! Hazardous respirable dust may be formed when used. Do not breathe dust.*
- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** *Not applicable.*
- **vPvB:** *Not applicable.*

### SECTION 3: Composition/information on ingredients

- **Mixtures**
- **Description:** *Mixture of substances listed below with nonhazardous additions.*

· **Dangerous components:**

CAS: 2768-02-7  
EINECS: 220-449-8  
Reg.nr.: 01-2119513215-52-XXXX

trimethoxyvinylsilane  
 Sens. 1B, H317 

≥1–≤2.5%

Flam. Liq. 2, H228

Acute Tox. 4, H228; Skin

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

· **Description of first aid measures**

- **After inhalation:** *Supply fresh air; consult doctor in case of complaints.*
- **After skin contact:** *Generally the product does not irritate the skin.*
- **After eye contact:** *Rinse opened eye for several minutes under running water.*
- **After swallowing:** *If symptoms persist consult doctor.*
- **Most important symptoms and effects, both acute and delayed**

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

· **Extinguishing media**

- **Suitable extinguishing agents:** *Use fire extinguishing methods suitable to surrounding conditions.*
- **Special hazards arising from the substance or mixture** *No further relevant information available.*
- **Advice for firefighters**
- **Protective equipment:** *No special measures required.*

· **Personal precautions, protective equipment and emergency procedures** *Not required.*

- **Environmental precautions:** *Do not allow to enter sewers/ surface or ground water.*
- **Methods and material for containment and cleaning up:** *Pick up mechanically.*
- **Reference to other sections**

· **Precautions for safe handling** *No special precautions are necessary if used correctly.*

· **Information about fire - and explosion protection:** *No special measures required.*

· **Conditions for safe storage, including any incompatibilities**

· **Storage:**

- **Requirements to be met by storerooms and receptacles:** *No special requirements.*
- **Information about storage in one common storage facility:** *Not required.*
- **Further information about storage conditions:** *None.*
- **Storage class:** 13

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· **Specific end use(s)** *No further relevant information available.*

### SECTION 8: Exposure controls/personal protection

· **Control parameters**

· **Ingredients with limit values that require monitoring at the workplace:**

**CAS: 13463-67-7 titanium dioxide**

WEL Long-term value: 10\* 4\*\* mg/m<sup>3</sup>

\*total inhalable \*\*respirable

· **Additional information:** *The lists valid during the making were used as basis.*

· **Exposure controls**

· **Appropriate engineering controls** *No further data; see section 7.*

· **Individual protection measures, such as personal protective equipment**

· **General protective and hygienic measures:** *Wash hands before breaks and at the end of work.*

· **Respiratory protection:** *Not required.*

· **Hand protection**

*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*

· **Material of gloves**

*Chemical-resistant protective gloves (EN ISO 374).*

*Minimum layer thickness: 0.5 mm*

*Permeation time (breakthrough time): 480 min*

*The breakthrough times determined according to EN 16523-1 were not carried out under practical conditions.*

*A maximum wearing time corresponding to 50 % of the breakthrough time is recommended.*

*Nitrile rubber, NBR*

*Butyl rubber, BR*

*Chloroprene rubber, CR*

*The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.*

· **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.*

· **Eye/face protection**



*Tightly sealed goggles*

### SECTION 9: Physical and chemical properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Physical state**

*Solid*

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|                                                                                        |                                                      |
|----------------------------------------------------------------------------------------|------------------------------------------------------|
| · <b>Colour:</b>                                                                       | <i>Various colours</i>                               |
| · <b>Odour:</b>                                                                        | <i>Characteristic</i>                                |
| · <b>Odour threshold:</b>                                                              | <i>Not determined.</i>                               |
| · <b>Melting point/freezing point:</b>                                                 | <i>Undetermined.</i>                                 |
| · <b>Boiling point or initial boiling point and boiling range</b>                      | <i>Undetermined.</i>                                 |
| · <b>Flammability</b>                                                                  | <i>Not determined.</i>                               |
| · <b>Lower and upper explosion limit</b>                                               | <i>Not determined.</i>                               |
| · <b>Lower:</b>                                                                        | <i>Not determined.</i>                               |
| · <b>Upper:</b>                                                                        | <i>Not determined.</i>                               |
| · <b>Flash point:</b>                                                                  | <i>Not applicable.</i>                               |
| · <b>Decomposition temperature:</b>                                                    | <i>Not determined.</i>                               |
| · <b>pH</b>                                                                            | <i>Not applicable.</i>                               |
| · <b>Viscosity:</b>                                                                    |                                                      |
| · <b>Kinematic viscosity</b>                                                           | <i>Not applicable.</i>                               |
| · <b>Dynamic:</b>                                                                      | <i>Not applicable.</i>                               |
| · <b>Solubility</b>                                                                    |                                                      |
| · <b>water:</b>                                                                        | <i>Insoluble.</i>                                    |
| · <b>Partition coefficient n-octanol/water (log value)</b>                             | <i>Not determined.</i>                               |
| · <b>Vapour pressure:</b>                                                              | <i>Not applicable.</i>                               |
| · <b>Density and/or relative density</b>                                               |                                                      |
| · <b>Density at 20 °C:</b>                                                             | <i>1.3 g/cm<sup>3</sup></i>                          |
| · <b>Relative density</b>                                                              | <i>Not determined.</i>                               |
| · <b>Vapour density</b>                                                                | <i>Not applicable.</i>                               |
| · <b>Other information</b>                                                             |                                                      |
| · <b>Appearance:</b>                                                                   |                                                      |
| · <b>Form:</b>                                                                         | <i>Pasty</i>                                         |
| · <b>Important information on protection of health and environment, and on safety.</b> |                                                      |
| · <b>Ignition temperature:</b>                                                         | <i>Product is not selfigniting.</i>                  |
| · <b>Explosive properties:</b>                                                         | <i>Product does not present an explosion hazard.</i> |
| · <b>Change in condition</b>                                                           |                                                      |
| · <b>Evaporation rate</b>                                                              | <i>Not applicable.</i>                               |
| · <b>Information with regard to physical hazard classes</b>                            |                                                      |
| · <b>Explosives</b>                                                                    | <i>Void</i>                                          |
| · <b>Flammable gases</b>                                                               | <i>Void</i>                                          |
| · <b>Aerosols</b>                                                                      | <i>Void</i>                                          |
| · <b>Oxidising gases</b>                                                               | <i>Void</i>                                          |
| · <b>Gases under pressure</b>                                                          | <i>Void</i>                                          |
| · <b>Flammable liquids</b>                                                             | <i>Void</i>                                          |
| · <b>Flammable solids</b>                                                              | <i>Void</i>                                          |
| · <b>Self-reactive substances and mixtures</b>                                         | <i>Void</i>                                          |
| · <b>Pyrophoric liquids</b>                                                            | <i>Void</i>                                          |
| · <b>Pyrophoric solids</b>                                                             | <i>Void</i>                                          |
| · <b>Self-heating substances and mixtures</b>                                          | <i>Void</i>                                          |
| · <b>Substances and mixtures, which emit flammable gases in contact with water</b>     | <i>Void</i>                                          |
| · <b>Oxidising liquids</b>                                                             | <i>Void</i>                                          |

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- |                                  |      |
|----------------------------------|------|
| · <b>Oxidising solids</b>        | Void |
| · <b>Organic peroxides</b>       | Void |
| · <b>Corrosive to metals</b>     | Void |
| · <b>Desensitised explosives</b> | Void |

### SECTION 10: Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

### SECTION 11: Toxicological information

- **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:**

#### CAS: 2768-02-7 trimethoxyvinylsilane

|        |      |                   |
|--------|------|-------------------|
| Oral   | LD50 | 6,899 mg/kg (rat) |
| Dermal | LD50 | 3,158 mg/kg (rab) |

#### CAS: 13463-67-7 titanium dioxide

|            |          |                        |
|------------|----------|------------------------|
| Oral       | LD50     | >20,000 mg/kg (rat)    |
| Dermal     | LD50     | >10,000 mg/kg (rabbit) |
| Inhalative | LC50/4 h | >6.82 mg/l (rat)       |

- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation**  
Mixtures containing aminofunctional silane or siloxane compounds with the hazard potential "Serious eye damage/irritation, Category 1 - H318" in the concentration range of 1 to 5 % in addition to polymer and filler did not show a classification-relevant potential for eye irritation in vitro and in vivo (species: rabbit, method: OECD 405, source: test report).
- **Respiratory or skin sensitisation**  
Trimethoxyvinylsilane (CAS: 2768-02-7) is classified as a skin sensitizer category 1B (Skin Sens. 1B) according to Annex VI of Regulation (EC) No 1272/2008 based on vivo data with laboratory animals. However, no allergic reactions were observed after occupational contact. Mixtures with trimethoxyvinylsilane (up to 5% active substance) in polymers of different viscosities were tested in the "local lymph node assay" (OECD 429). None of the mixtures showed a sensitising potential. This result serves as the basis for our expert assessment, taking into account the entire composition when classifying and labelling polymer mixtures.
- **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.

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- **Aspiration hazard** *Based on available data, the classification criteria are not met.*
- **Information on other hazards**

· **Endocrine disrupting properties**

*None of the ingredients is listed.*

### SECTION 12: Ecological information

- **Toxicity**
- **Aquatic toxicity:** *No further relevant information available.*
- **Persistence and degradability** *No further relevant information available.*
- **Bioaccumulative potential** *No further relevant information available.*
- **Mobility in soil** *No further relevant information available.*
- **Results of PBT and vPvB assessment**
- **PBT:** *Not applicable.*
- **vPvB:** *Not applicable.*
- **Endocrine disrupting properties**  
*The product does not contain substances with endocrine disrupting properties.*
- **Other adverse effects**
- **Additional ecological information:**
- **General notes:**  
*Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.*

### SECTION 13: Disposal considerations

- **Waste treatment methods**
- **Recommendation**  
*Must not be disposed together with household garbage. Do not allow product to reach sewage system.*
- **Uncleaned packaging:**
- **Recommendation:** *Disposal must be made according to official regulations.*

### SECTION 14: Transport information

- |                                     |                      |
|-------------------------------------|----------------------|
| · <b>UN number or ID number</b>     |                      |
| · <b>ADR, IMDG, IATA</b>            | <i>not regulated</i> |
| · <b>UN proper shipping name</b>    |                      |
| · <b>ADR, IMDG, IATA</b>            | <i>not regulated</i> |
| · <b>Transport hazard class(es)</b> |                      |
| · <b>ADR, ADN, IMDG, IATA</b>       |                      |
| · <b>Class</b>                      | <i>not regulated</i> |
| · <b>Packing group</b>              |                      |
| · <b>ADR, IMDG, IATA</b>            | <i>not regulated</i> |

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- |                                                                  |                        |
|------------------------------------------------------------------|------------------------|
| · <b>Environmental hazards:</b>                                  | <i>Not applicable.</i> |
| · <b>Special precautions for user</b>                            | <i>Not applicable.</i> |
| · <b>Maritime transport in bulk according to IMO instruments</b> | <i>Not applicable.</i> |
| · <b>UN "Model Regulation":</b>                                  | <i>not regulated</i>   |

### SECTION 15: Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Poisons Act**
- **Regulated explosives precursors**  
*None of the ingredients is listed.*
- **Regulated poisons**  
*None of the ingredients is listed.*
- **Reportable explosives precursors**  
*None of the ingredients is listed.*
- **Reportable poisons**  
*None of the ingredients is listed.*
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** *None of the ingredients is listed.*
- **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.*

- **Relevant phrases**  
H226 Flammable liquid and vapour.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H318 Causes serious eye damage.  
H332 Harmful if inhaled.
- **Department issuing SDS:** *Product Safety Department*
- **Contact:** *info@tweha.com*
- **Abbreviations and acronyms:**  
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)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
PBT: Persistent, Bioaccumulative and Toxic

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*vPvB: very Persistent and very Bioaccumulative*

*ATE: Acute toxicity estimate values*

*Flam. Liq. 3: Flammable liquids – Category 3*

*Acute Tox. 4: Acute toxicity – Category 4*

*Skin Irrit. 2: Skin corrosion/irritation – Category 2*

*Eye Dam. 1: Serious eye damage/eye irritation – Category 1*

*Skin Sens. 1B: Skin sensitisation – Category 1B*

· **\* Data compared to the previous version altered.**

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