

**Safety data sheet according to regulation**  
(EC) No 1907/2006 and (EC) No 1272/2008



Trade name: Techno Sil S41  
Created on: 11.05.2009  
Issue date: 01.06.2015  
Version: V2.1  
Replaces former version: V2.0  
Revision datet: 20.09.2015  
File name: Techno-SilS41\_en\_SDB

**1. Designation of Material/Preparation/ and Company**

Trade-name : Techno Sil S 41  
REACH registration number: none  
Product Information: Silicone sealant

**Manufacturer/Supplier :**

Techno-Physik Engineering GmbH  
Schürmannstrasse 27- 31  
D- 45136 Essen  
Postfach 22 01 08  
D- 45066 Essen

**phone / fax / e-mail**

+49 / 201 / 87991-1 / +49 / 201 / 87991-99 / [info@Techno-Physik.com](mailto:info@Techno-Physik.com)

**2. Composition: Information on Constituents**

**2.1 Classification of the substance or mixture**

**Classification according to Regulation (EC) No 1272/2008** The substance 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 statements** Void

**Additional information:**

Ensure good ventilation during application and curing.  
Safety data sheet available on request

**2.3 Other hazards**

During the application and curing process of the material chemicals are released as vapour (see item 11). Therefore ensure good ventilation or exhaustion if necessary.

**Results of PBT and vPvB assessment**

**PBT:** Not applicable

**vPvB:** Not applicable

**3. Potential Hazards**

**3.2 Chemical characterisation: Mixtures**

**Description:** Polydimethylsiloxane, filler, auxiliaries and acetoxysilane crosslinker

**Dangerous components:**

CAS: 17689-77-9 ethyltriacetoxysilane < 2,5%

EINECS: 241-677-4



Skin Corr. 1B, H314; Eye Dam. 1, H318;



Acute Tox. 4, H302

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CAS: 4253-34-3 methylsilanetriyl triacetate < 2,5%



EINECS: 224-221-9 Skin Corr. 1C, H314; Eye Dam. 1, H318;



Acute Tox. 4, H302

CAS: 160738-91-9 Oligomere und Polymere von methylsilanetriyltriacetate < 2,5%



Skin Corr. 1B, H314; Eye Dam. 1, H318

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

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#### **4. First-aid Precautions**

##### **4.1 Description of first aid measures**

###### **After inhalation**

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

###### **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. Show container or label.

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#### **5. Fire-fighting Precautions**

##### **5.1 Extinguishing media**

###### **Suitable extinguishing agents**

CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

##### **5.2 Special hazards arising from the substance or mixture**

Formation of toxic gases is possible during heating or in case of fire.

##### **5.3 Advice for firefighters**

###### **Protective equipment:**

Mount respiratory protective device.

Do not inhale explosion gases or combustion gases.

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#### **6. Action on accidental Release into the Atmosphere**

##### **6.1 Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation

**6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.

##### **6.3 Methods and material for containment and cleaning up:**

Dispose contaminated material as waste according to item 13.

**6.4 Reference to other sections** See Section 8 for information on personal protection equipment.

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#### **7. Handling and Storage**

##### **7.1 Precautions for safe handling**

Ensure good ventilation/exhaustion at the workplace.

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see item 8: Personal protective equipment

**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.

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**8. Exposure Control and personal protective Clothing and Equipment**

**8.1 Control parameters**

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

**64-19-7 acetic acid**

OEL Short-term value: 37 mg/m<sup>3</sup>, 15 ml/m<sup>3</sup>

Long-term value: 25 mg/m<sup>3</sup>, 10 ml/m<sup>3</sup>

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

**8.2 Exposure controls**

**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.

**Respiratory protection:**

This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e.type ABEK according to standard EN 14387) is used.

**Protection of hands:** Protective gloves.

**Material of gloves**

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.

Recommended glove types: nitrile rubber

Recommended thickness of the material:  $\geq 0.1$  mm

**Penetration time of glove material** Breakthrough time: > 120 min

**Eye protection:** Safety glasses

**Body protection:** Protective work clothing.

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**9. Physical and chemical Properties**

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

**General Information**

**Appearance:**

**Form:** pasty

**Colour:** According to product specification

**Odour:** Pungent

**Odour threshold:** Not determined.

**pH-value:** Not determined.

**Change in condition**

**Melting point/freezing point:** undetermined

**Initial boiling point and boiling range:** undetermined

**Flash point:** Not applicable

**Auto-ignition temperature:** Product is not selfigniting.

**Explosive properties:** Product does not present an explosion hazard.

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**Explosion limits:**

**Lower:** not applicable

**Upper:** not applicable

**Oxidising properties** Not determined.

**Vapour pressure:** Not determined.

**Density at 20 °C:** 1.03 g/cm<sup>3</sup>

**Vapour density** Not determined.

**Evaporation rate** Not applicable.

**Solubility in / Miscibility with**

**Water:** Insoluble

**Partition coefficient: n-octanol/water:** Not determined.

**Viscosity:** Not determined.

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**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.

Avoid strong heating.

**10.6 Hazardous decomposition products:**

Tests on representative products have shown that above temperatures of 150 °C small quantities of

formaldehyde are split off.

see item 5.2

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**11. Toxicological Data**

**11.1 Information on toxicological effects**

**Acute toxicity** Based on available data, the classification criteria are not met.

**Primary irritant effect:**

**Skin corrosion/irritation**

not irritating

Source: ECHA

Test in accordance with: OECD Guideline 404 (rabbit).

**Serious eye damage/irritation**

not irritating

Source: ECHA

Test in accordance with: OECD Guideline 405 (rabbit).

**Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.

**Other information (about experimental toxicology):**

In curing the material splits off acetic acid as damp. This may cause irritating effects to skin, eyes or respiratory system.

**CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)**

**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.

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## **12. Ecological Data**

### **12.2 Persistence and degradability**

**Other information:** Product is not biodegradable.

**Additional ecological information:**

**General notes:**

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.  
Do not allow product to reach ground water, water course or sewage system.

### **12.5 Results of PBT and vPvB assessment**

**PBT:** Not applicable.

**vPvB:** Not applicable.

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## **13. Instructions for Disposal**

### **13.1 Waste treatment methods**

#### **Recommendation**

Observe local by-laws.

Already cured material can be disposed of with the domestic or commercial waste. Unconsumed material (fluid, paste-like) is to dispose of as hazardous waste.

#### **Uncleaned packaging:**

##### **Recommendation:**

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

Packagings that may not be cleansed are to be disposed of in the same manner as the product.

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## **14. Shipping Data**

### **14.1 UN-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 Transport in bulk according to Annex II of Marpol and the IBC Code** Not applicable.

**Transport/Additional information:** Not dangerous according to the above specifications.

**UN "Model Regulation":** Void

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## **15. Regulations**

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

**National regulations**

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

**Details of international registration status:**

**Listed on or in accordance with the following inventories:**

EINECS - Europe listed  
AICS - Australia listed  
DSL/NDSL - Canada listed  
IECSC - China listed  
ENCS - Japan not listed  
NZIoC - New Zealand not listed  
PICCS - Philippines listed  
ECL/KECI - Korea listed  
TSCA - USA listed  
NECI - Taiwan not listed

**15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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## 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

H302 Harmful if swallowed.  
H314 Causes severe skin burns and eye damage.  
H318 Causes serious eye damage.

**Department issuing SDS:** Tel.: +49 / 201 / 87991-1

**Contact:** +49 / 201 / 87991-1

### 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)  
ICAO: International Civil Aviation Organisation  
ADR: Accord européen sur le transport 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)  
PBT: Persistent, Bioaccumulative and Toxic  
vPvB: very Persistent and very Bioaccumulative  
Acute Tox. 4: Acute toxicity – Category 4  
Skin Corr. 1B: Skin corrosion/irritation – Category 1B  
Skin Corr. 1C: Skin corrosion/irritation – Category 1C  
Eye Dam. 1: Serious eye damage/eye irritation – Category 1

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

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