

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

**Revision date:** 26 Jan 2021

**Print date:** 2 Feb 2021

**Version:** 2



## FIX-O-FLEX

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

#### 1.1. Product identifier

**Trade name/designation:**

**FIX-O-FLEX**

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

No data available

#### 1.3. Details of the supplier of the safety data sheet

**Supplier (manufacturer/importer/only representative/downstream user/distributor):**

**TPH Bausysteme GmbH**

Nordportbogen 8

22848 Norderstedt

Germany

**Telephone:** +49 40 52 90 66 78-0

**Telefax:** +49 40 52 90 66 78-78

**E-mail:** info@tph-bausysteme.com

**Website:** www.tph-bausysteme.com

**E-mail (competent person):** sdb-info@tph-bausysteme.com

#### 1.4. Emergency telephone number

24h: GIZ-Nord +49 551 / 19240

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

**Classification according to Regulation (EC) No 1272/2008 [CLP]:**

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

#### 2.2. Label elements

**Labelling according to Regulation (EC) No. 1272/2008 [CLP]**

According to EC directives or the corresponding national regulations the product does not have to be labelled.

**Hazard statements:** -

#### Supplemental hazard information

EUH208	Contains Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine, N-(3-(trimethoxysilyl)propyl)ethylenediamine. May produce an allergic reaction.
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**Precautionary statements:** -

#### 2.3. Other hazards

No data available

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### SECTION 3: Composition / information on ingredients

#### 3.2. Mixtures

##### Hazardous ingredients / Hazardous impurities / Stabilisers:

product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concen- tration
<b>CAS No.:</b> 100545-48-0 <b>EC No.:</b> 309-629-8 <b>REACH No.:</b> 01-2119979085-27-XXXX	<b>Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine</b> Aquatic Chronic 3, Skin Sens. 1B ! H317-H412	1 - < 2.5 weight-%
<b>CAS No.:</b> 2768-02-7 <b>EC No.:</b> 220-449-8 <b>REACH No.:</b> 01-2119513215-52-XXXX	<b>trimethoxyvinylsilane</b> Acute Tox. 4, Flam. Liq. 3 ! Warning H226-H332	1 - < 2.5 weight-%
<b>CAS No.:</b> 1760-24-3 <b>EC No.:</b> 217-164-6 <b>REACH No.:</b> 01-2119970215-39-XXXX	<b>N-(3-(trimethoxysilyl)propyl)ethylenediamine</b> Eye Dam. 1, Skin Sens. 1B ! Danger H317-H318	0.1 - < 1 weight-%

Full text of H- and EUH-phrases: see section 16.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

##### General information:

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Remove victim out of the danger area. Remove contaminated, saturated clothing. If unconscious but breathing normally, place in recovery position and seek medical advice. Do not leave affected person unattended.

##### Following inhalation:

Provide fresh air.

##### Following ingestion:

Rinse mouth. Let water be drunk in little sips (dilution effect). Get medical advice/attention if you feel unwell.

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

No known symptoms to date.

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

Treat symptomatically.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

##### Suitable extinguishing media:

Water spray jet Carbon dioxide (CO<sub>2</sub>) Dry extinguishing powder alcohol resistant foam

##### Unsuitable extinguishing media:

Full water jet

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

##### Hazardous combustion products:

In case of fire: Gases/vapours, toxic

#### 5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

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### 5.4. Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

## SECTION 6: Accidental release measures

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

#### 6.1.1. For non-emergency personnel

##### Personal precautions:

Avoid breathing dust/fume/gas/mist/vapours/spray. Remove persons to safety.

##### Protective equipment:

Wear protective gloves/protective clothing/eye protection/face protection.

#### 6.1.2. For emergency responders

##### Personal protection equipment:

Personal protection equipment: see section 8

### 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

### 6.3. Methods and material for containment and cleaning up

#### For containment:

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

### 6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

### 6.5. Additional information

Use appropriate container to avoid environmental contamination.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Protective measures

#### Advices on safe handling:

Wear personal protection equipment (refer to section 8).

#### Advices on general occupational hygiene

When using do not eat, drink or smoke. Avoid contact with eyes and skin.

### 7.2. Conditions for safe storage, including any incompatibilities

#### Technical measures and storage conditions:

Keep container tightly closed in a cool, well-ventilated place.

**Storage class:** 10 – Combustible liquids that cannot be assigned to any of the above storage classes

### 7.3. Specific end use(s)

No data available

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### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### 8.1.1. Occupational exposure limit values

Limit value type (country of origin)	Substance name	<b>① Long-term occupational exposure limit value</b> <b>② short-term occupational exposure limit value</b> <b>③ Instantaneous value</b> <b>④ Monitoring and observation processes</b> <b>⑤ Remark</b>
Ontario (CA)	trimethoxyvinylsilane CAS No.: 2768-02-7 EC No.: 220-449-8	② 10 ppm (60 mg/m <sup>3</sup> )
TRGS 900 (DE)	Hydrocarbons, TRGS 900	① 0 mg/m <sup>3</sup> ⑤ Mass fraction (wt %): 0

##### 8.1.2. Biological limit values

No data available

##### 8.1.3. DNEL-/PNEC-values

No data available

#### 8.2. Exposure controls

##### 8.2.1. Appropriate engineering controls

No data available

##### 8.2.2. Personal protection equipment

###### Eye/face protection:

Eye glasses with side protection DIN EN 166

###### Skin protection:

Tested protective gloves must be worn EN ISO 374 Suitable material: Breakthrough time: min  
In the case of wanting to use the gloves again, clean them before taking off and air them well.  
Breakthrough times and swelling properties of the material must be taken into consideration.

##### 8.2.3. Environmental exposure controls

No data available

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

###### Appearance

**Physical state:** Liquid

**Colour:** various

**Odour:** not determined

###### Safety relevant basis data

parameter		at °C	Method	Remark
pH	<i>not determined</i>			
Melting point	<i>not determined</i>			
Freezing point	<i>not determined</i>			
Initial boiling point and boiling range	<i>not determined</i>			
Decomposition temperature	<i>not determined</i>			
Flash point	> 61 °C			
Evaporation rate	<i>not determined</i>			
Auto-ignition temperature	<i>not determined</i>			
Upper/lower flammability or explosive limits	<i>not determined</i>			
Vapour pressure	<i>not determined</i>			

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parameter		at °C	Method	Remark
Vapour density	<i>not determined</i>			
Density	1.44 – 1.52 g/cm <sup>3</sup>			
Bulk density	<i>not determined</i>			
Water solubility	<i>not determined</i>			
Partition coefficient: n-octanol/water	<i>not determined</i>			
Dynamic viscosity	≈ 1,000 Pa*s	23 °C		
Kinematic viscosity	<i>not determined</i>			
VOC-value	< 3 %			

## 9.2. Other information

No data available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No data available

### 10.2. Chemical stability

No data available

### 10.3. Possibility of hazardous reactions

No data available

### 10.4. Conditions to avoid

Protect from moisture.

### 10.5. Incompatible materials

No data available

### 10.6. Hazardous decomposition products

No data available

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Substance name	Toxicological information
Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine CAS No.: 100545-48-0 EC No.: 309-629-8	<b>LD<sub>50</sub> oral:</b> >2,000 mg/kg (Rat) <b>LC<sub>50</sub> Acute inhalation toxicity (vapour):</b> 5.05 mg/l (Rat)
trimethoxyvinylsilane CAS No.: 2768-02-7 EC No.: 220-449-8	<b>LD<sub>50</sub> oral:</b> 7,120 – 7,236 mg/kg (Rat) <b>LC<sub>50</sub> Acute inhalation toxicity (dust/mist):</b> 16.8 mg/l (Rat)
N-(3-(trimethoxysilyl)propyl)ethylenediamine CAS No.: 1760-24-3 EC No.: 217-164-6	<b>LC<sub>50</sub> Acute inhalation toxicity (dust/mist):</b> 1.49 – 2.44 mg/l 4 h (Rat) <b>LD<sub>50</sub> oral:</b> 2,995 mg/kg (Rat) <b>LD<sub>50</sub> dermal:</b> >2,000 mg/kg (Rat)

#### Acute oral toxicity:

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

#### Acute dermal toxicity:

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

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### Acute inhalation toxicity:

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

### 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:

Contains Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine, N-(3-(trimethoxysilyl)propyl)ethylenediamine. May produce an allergic reaction.

### 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.

### Additional information:

No data available

## SECTION 12: Ecological information

### 12.1. Toxicity

Substance name	Toxicological information
Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine CAS No.: 100545-48-0 EC No.: 309-629-8	<b>EC<sub>50</sub>:</b> >100 mg/l 3 d (Algae/water plant, Pseudokirchneriella subcapitata) <b>EC<sub>50</sub>:</b> >10 mg/l 2 d (crustaceans, Daphnia magna (Big water flea))
trimethoxyvinylsilane CAS No.: 2768-02-7 EC No.: 220-449-8	<b>EC<sub>50</sub>:</b> 957 mg/l 3 d (Algae/water plant, Desmodesmus subspicatus) <b>LC<sub>50</sub>:</b> 191 mg/l 4 d (fish, Oncorhynchus mykiss (Rainbow trout)) <b>EC<sub>50</sub>:</b> 168.1 mg/l 2 d (crustaceans, Daphnia magna (Big water flea))
N-(3-(trimethoxysilyl)propyl)ethylenediamine CAS No.: 1760-24-3 EC No.: 217-164-6	<b>LC<sub>50</sub>:</b> 597 mg/l 4 d (fish, semistatic Danio rerio (zebrafish)) <b>EC<sub>50</sub>:</b> 81 mg/l 2 d (Daphnia magna (Big water flea)) <b>IC<sub>50</sub>:</b> 8.8 mg/l 3 d (Algae/water plant, Algae/water plant) OECD 201 <b>NOEC:</b> 3.1 mg/l 3 d OECD 201 <b>EC<sub>50</sub>:</b> 67 mg/l (Pseudomonas putida) 16h <b>NOEC:</b> 1 mg/l 21 d (Daphnia magna (Big water flea)) <b>NOEC:</b> ≥1,000 mg/l (Eisenia fetida) OECD 207 ,14d

### 12.2. Persistence and degradability

Substance name	Biodegradation	Remark
N-(3-(trimethoxysilyl)propyl)ethylenediamine CAS No.: 1760-24-3	Yes, slowly	

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Substance name	Biodegradation	Remark
EC No.: 217-164-6		

### 12.3. Bioaccumulative potential

No data available

### 12.4. Mobility in soil

No data available

### 12.5. Results of PBT and vPvB assessment

Substance name	Results of PBT and vPvB assessment
Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine CAS No.: 100545-48-0 EC No.: 309-629-8	—
trimethoxyvinylsilane CAS No.: 2768-02-7 EC No.: 220-449-8	—
N-(3-(trimethoxysilyl)propyl)ethylenediamine CAS No.: 1760-24-3 EC No.: 217-164-6	The substance in the mixture does not meet the PBT/vPvB criteria according to REACH, annex XIII.

### 12.6. Other adverse effects

No data available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### 13.1.1. Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV

#### Waste code product:

08 04 10	waste adhesives and sealants other than those mentioned in 08 04 09
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#### Waste treatment options

#### Appropriate disposal / Product:

Consult the appropriate local waste disposal expert about waste disposal.

## SECTION 14: Transport information

No dangerous good in sense of these transport regulations.

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
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#### 14.1. UN-No.

No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.
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#### 14.2. UN proper shipping name

No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.
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#### 14.3. Transport hazard class(es)

not relevant
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Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA- DGR)
<b>14.4. Packing group</b>			
not relevant			
<b>14.5. Environmental hazards</b>			
not relevant			
<b>14.6. Special precautions for user</b>			
not relevant			

## 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

not relevant

## SECTION 15: Regulatory information

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

#### 15.1.1. EU legislation

No data available

#### 15.1.2. National regulations

##### [DE] National regulations

##### Technische Anleitung Luft (TA-Luft)

##### Klasse 1:

Anteil < 1 %

##### Water hazard class

##### WGK:

1 - schwach wassergefährdend

##### Other regulations, restrictions and prohibition regulations

UVV "Verarbeiten von Klebstoffen" (VBG 81)

##### [DK] National regulations

##### Other regulations, restrictions and prohibition regulations

MAL-kode (Denmark): 0-1

### 15.2. Chemical Safety Assessment

No data available

## SECTION 16: Other information

### 16.1. Indication of changes

No data available

### 16.2. Abbreviations and acronyms

No data available

### 16.3. Key literature references and sources for data

No data available

### 16.4. Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

#### Classification according to Regulation (EC) No 1272/2008 [CLP]:

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

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## FIX-O-FLEX

### 16.5. Relevant R-, H- and EUH-phrases (Number and full text)

#### Hazard statements

H226	Flammable liquid and vapour.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H332	Harmful if inhaled.
H412	Harmful to aquatic life with long lasting effects.

### 16.6. Training advice

No data available

### 16.7. Additional information

No data available