

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]	Concentration
CAS No.: 100545-48-0 EC No.: 309-629-8 REACH No.: 01-2119979085-27-XXXX	Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine Aquatic Chronic 3, Skin Sens. 1B ⚠ H317-H412	1 - < 2.5 weight-%
CAS No.: 2768-02-7 EC No.: 220-449-8 REACH No.: 01-2119513215-52-XXXX	trimethoxyvinylsilane Acute Tox. 4, Flam. Liq. 3 ⚠ Warning H226-H332	1 - < 2.5 weight-%
CAS No.: 1760-24-3 EC No.: 217-164-6 REACH No.: 01-2119970215-39-XXXX	N-(3-(trimethoxysilyl)propyl)ethylenediamine 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 drunken 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 (CO₂) 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	① Long-term occupational exposure limit value ② short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
Ontario (CA)	trimethoxyvinylsilane CAS No.: 2768-02-7 EC No.: 220-449-8	② 10 ppm (60 mg/m ³)
TRGS 900 (DE)	Hydrocarbons, TRGS 900	① 0 mg/m ³ 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 ³			
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	LD₅₀ oral: >2,000 mg/kg (Rat) LC₅₀ Acute inhalation toxicity (vapour): 5.05 mg/l (Rat)
trimethoxyvinylsilane CAS No.: 2768-02-7 EC No.: 220-449-8	LD₅₀ oral: 7,120 - 7,236 mg/kg (Rat) LC₅₀ Acute inhalation toxicity (dust/mist): 16.8 mg/l (Rat)
N-(3-(trimethoxysilyl)propyl)ethylenediamine CAS No.: 1760-24-3 EC No.: 217-164-6	LC₅₀ Acute inhalation toxicity (dust/mist): 1.49 - 2.44 mg/l 4 h (Rat) LD₅₀ oral: 2,995 mg/kg (Rat) LD₅₀ dermal: >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	EC₅₀ : >100 mg/l 3 d (Algae/water plant, Pseudokirchneriella subcapitata) EC₅₀ : >10 mg/l 2 d (crustaceans, Daphnia magna (Big water flea))
trimethoxyvinylsilane CAS No.: 2768-02-7 EC No.: 220-449-8	EC₅₀ : 957 mg/l 3 d (Algae/water plant, Desmodesmus subspicatus) LC₅₀ : 191 mg/l 4 d (fish, Oncorhynchus mykiss (Rainbow trout)) EC₅₀ : 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	LC₅₀ : 597 mg/l 4 d (fish, semistatic Danio rerio (zebrafish)) EC₅₀ : 81 mg/l 2 d (Daphnia magna (Big water flea)) IC₅₀ : 8.8 mg/l 3 d (Algae/water plant, Algae/water plant) OECD 201 NOEC : 3.1 mg/l 3 d OECD 201 EC₅₀ : 67 mg/l (Pseudomonas putida) 16h NOEC : 1 mg/l 21 d (Daphnia magna (Big water flea)) NOEC : ≥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)
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.
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.
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)
14.4. Packing group			
not relevant			
14.5. Environmental hazards			
not relevant			
14.6. Special precautions for user			
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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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