

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 22/08/2024 Version: 1.0

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

1.1. Product identifier

Product form : Mixture
Trade name : FFRS
Article number : 00512374

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

Relevant identified uses

Main use category : Consumer use.Professional use.Industrial use

Use of the substance/mixture : Sealants

1.3. Details of the supplier of the safety data sheet

Manufacturer

fischerwerke GmbH & Co. KG
Klaus-Fischer-Straße 1
72178 Waldachtal
Germany
T +49(0)7443 12-0, F +49(0)7443 12-4222
info-sdb@fischer.de, www.fischer.de

Distributor

fischer fixings UK Ltd. Whitely Road Oxon OX10 9AT Wallingford

United Kingdom of Great Britain and Northern Ireland

T +44 14 91 82 79 00, F +44 14 91 82 79 53 info@fischer.co.uk, www.fischer.co.uk

1.4. Emergency telephone number

Emergency number : +49(0)6132-84463 (24h)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Not classified

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

EUH-statements : EUH208 - Contains trimethoxyvinylsilane; trimethoxy(vinyl)silane. May produce an allergic reaction.

EUH210 - Safety data sheet available on request.

2.3. Other hazards

Contains PBTvPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

Component	
Substance(s) meeting the PBT criteria of REACH regulation, in accordance with Annex XIII	Decamethylcyclopentasiloxane (541-02-6), octamethylcyclotetrasiloxane; [D4] (556-67-2)
Substance(s) meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII	Decamethylcyclopentasiloxane (541-02-6), octamethylcyclotetrasiloxane; [D4] (556-67-2)

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

Component

Substance(s) not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

octamethylcyclotetrasiloxane; [D4] (556-67-2), Decamethylcyclopentasiloxane (541-02-6)

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

SECTION 3: Composition/information on ingredients

3.2. Mixtures

N a m e	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
trimethoxyvinylsilane; trimethoxy(vinyl)silane	CAS-No.: 2768-02-7 EC-No.: 220-449-8 EC Index-No.: 014-049-00-0 REACH-no: 01-2119513215-52	≥1-<5	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation:vapour), H332 (ATE=16.8 mg/l/4h) Skin Sens. 1B, H317
octamethylcyclotetrasiloxane; [D4] substance listed on REACH Candidate List (Octamethylcyclotetrasiloxane) PBT substance; vPvB substance	CAS-No.: 556-67-2 EC-No.: 209-136-7 EC Index-No.: 014-018-00-1 REACH-no: 01-2119529238-36	≥ 0.1 – < 2.5	Flam. Liq. 3, H226 Repr. 2, H361f Aquatic Chronic 1, H410 (M=10)
Decamethylcyclopentasiloxane substance listed on REACH Candidate List PBT substance; vPvB substance	CAS-No.: 541-02-6 EC-No.: 208-764-9 REACH-no: 01-2119511367-43	≥ 0.1 – < 1	Not classified
Full text of H- and EUH-statements: see section 16	•	•	•

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Wash with plenty of soap and water.

First-aid measures after eye contact : Rinse eyes with water as a precaution. Remove contact lenses, if present and easy to do. Continue

rinsing.

First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell. If possible, show the doctor this safety data sheet.

Failing this, show the doctor the packaging or label. Wash out mouth with water and afterwards drink

plenty of water.

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

No additional information available

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. Dry powder. Foam. Carbon dioxide (CO2).

Unsuitable extinguishing media : Strong water jet.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus.

Complete protective clothing.

Other information : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local

regulations.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Emergency procedures : Ventilate spillage area.

22/08/2024 (Issue date) GB - en 2/9

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to

section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Mechanically recover the product.

Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Avoid

contact with skin, eyes and clothing. Remove dirty clothes.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool.

Storage temperature : 5-25 °C

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

Personal protection equipment

Personal protective equipment symbol(s):





Eye and face protection

Eye protection:

Safety glasses

Skin protection

Skin and body protection:

Wear suitable protective clothing

Hand protection:

No specific measures are required provided the product is handled in accordance with the general rules of occupational hygiene and safety

22/08/2024 (Issue date) GB - en 3/9 03/02/2025 (Printing date)

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Hand protection	and protection				
Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
Disposable gloves	Nitrile rubber (NBR), Chloroprene rubber (CR), Butyl rubber	3 (> 60 minutes)	-		

Respiratory protection

Respiratory protection:

No respiratory protection needed under normal use conditions. In case of insufficient ventilation, wear suitable respiratory equipment

Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid Colour white. Appearance Paste. Odour slight. Odour threshold Not available : Not available Melting point Freezing point Not available : Not available Boiling point Flammability : Not available Lower explosion limit : Not applicable Upper explosion limit : Not applicable Flash point : 117 °C Auto-ignition temperature : Not applicable Decomposition temperature Not available : Not available : Not available pH solution Viscosity, kinematic > 21 mm²/s

Solubility : Water: practically insoluble

Ethanol: sparingly soluble

Acetone: Partially soluble

Partition coefficient n-octanol/water (Log Kow) : Not available Vapour pressure : Not available Vapour pressure at 50°C : Not available Density : 1.4 g/ml Relative density : Not available Relative vapour density at 20°C : Not available Particle size : Not available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

22/08/2024 (Issue date) 03/02/2025 (Printing date) GB - en

4/9

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

trimethoxyvinylsilane; trimethoxy(vinyl)silane (2768-02-7)

Acute toxicity (oral) : Not classified Acute toxicity (dermal) : Not classified Acute toxicity (inhalation) Not classified

LD50 oral rat	7120 mg/kg (OECD 401 method)
LD50 dermal rabbit	3760 mg/kg
LC50 Inhalation - Rat	16.8 mg/l (OECD 403 method)
Decamethylcyclopentasiloxa	ne (541-02-6)
LD50 oral rat	> 5000 mg/kg bodyweight (OECD 401 method)
LD50 dermal rabbit	> 2000 mg/kg bodyweight (OECD 402 method)
LC50 Inhalation - Rat	8.67 mg/l air (OECD 403 method)
octamethylcyclotetrasiloxan	e; [D4] (556-67-2)
LD50 oral rat	≈ 4800 mg/kg bodyweight (OECD 401 method)
LD50 dermal rat	> 17700 mg/kg
LC50 Inhalation - Rat	36 mg/l (OECD 403 method)
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified.
Respiratory or skin sensitisation	 Skin sensitization: Not classified ((OECD 406 method); No sensitisation responses were observed). Respiratory sensitization: Not classified ((OECD 406 method); No sensitisation responses were observed).
Additional information	: May cause sensitisation of susceptible persons
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified

3101-Tepeated exposure	5101-repeated exposure . Not classified	
Decamethylcyclopentasiloxane (541-02-6)		
NOAEL (oral, rat, 90 days)	≥ 1000 mg/kg bodyweight	
NOAEL (dermal, rat/rabbit, 90 days)	≥ 1600 mg/kg bodyweight	
Aspiration hazard	: Not classified	
FFRS		

11.00	
Viscosity, kinematic	> 21 mm²/s
trimethoxyvinylsilane; trimethoxy(vinyl)silane (2768-02-7)	
Viscosity, kinematic	0.7 mm ² /s
Decamethylcyclonentasilovane (541-02-6)	

Decamethylcyclopentasiloxane (541-02-6)		
Viscosity, kinematic	3.7 mm²/s Temp.: 'other:' Parameter: 'kinematic viscosity (in mm²/s)'	
octamethylcyclotetrasiloxane; [D4] (556-67-2)		
Viscosity, kinematic	1.6 mm²/s Temp.: '20°C' Parameter: 'kinematic viscosity (in mm²/s)'	

11.2. Information on other hazards

No additional information available

22/08/2024 (Issue date) GB - en 5/9

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the

environment

Hazardous to the aquatic environment, short-term (acute) Not classified Hazardous to the aquatic environment, long-term (chronic) : Not classified.

trimethoxyvinylsilane; trimethoxy(vinyl)silane (2768-02-7)	
LC50 - Fish [1]	> 92.2 mg/l Oryzias latipes (Ricefish)
EC50 - Crustacea [1]	168.7 mg/l Daphnia magna (Water flea)
EC50 72h - Algae [1]	> 957 mg/l Desmodesmus subspicatus
LOEC (chronic)	52.4 mg/l
NOEC (chronic)	28.1 mg/l

Decamethylcyclopentasiloxane (541-02-6)

LC50 - Fish [1]	> 16 μg/l Oncorhynchus mykiss (Rainbow trout)
EC50 - Crustacea [1]	> 2.9 μg/l Daphnia magna (Water flea)

octamethylcyclotetrasiloxane; [D4] (556-67-2)	
LC50 - Fish [1]	> 22 µg/l Oncorhynchus mykiss (Rainbow trout)
EC50 - Crustacea [1]	> 15 μg/l Daphnia magna (Water flea)

12.2. Persistence and degradability

FFRS	
Persistence and degradability	Not rapidly degradable

trimethoxyvinylsilane; trimethoxy(vinyl)silane (2768-02-7)

Persistence and degradability Rapidly degradable

Decamethylcyclopentasiloxane (541-02-6)

Persistence and degradability Rapidly degradable

octamethylcyclotetrasiloxane; [D4] (556-67-2)

Persistence and degradability Not rapidly degradable

12.3. Bioaccumulative potential

Decamethylcyclopentasiloxane (541-02-6)

Partition coefficient n-octanol/water (Log Pow) 5.2

12.4. Mobility in soil

Decamethylcyclopentasiloxane (541-02-6)

Mobility in soil 16000

12.5. Results of PBT and vPvB assessment

Component		
	e(s) meeting the PBT criteria of REACH regulation, unce with Annex XIII	Decamethylcyclopentasiloxane (541-02-6), octamethylcyclotetrasiloxane; [D4] (556-67-2)
	e(s) meeting the vPvB criteria of REACH regulation, ince with Annex XIII	Decamethylcyclopentasiloxane (541-02-6), octamethylcyclotetrasiloxane; [D4] (556-67-2)

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

No additional information available

GB - en

22/08/2024 (Issue date) 03/02/2025 (Printing date) 6/9

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional waste regulation

: Disposal must be done according to official regulations.

Waste treatment methods

Dispose of contents/container in accordance with licensed collector's sorting instructions. Dispose in a safe manner in accordance with local/national regulations. Avoid release to the

Product/Packaging disposal recommendations

environment.

European List of Waste (LoW, EC 2000/532)

: 20 00 00 - MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA

ADR	IMDG	IATA		
14.1. UN number or ID number				
Not regulated for transport				
14.2. UN proper shipping name				
Not regulated	Not regulated	Not regulated		
14.3. Transport hazard class(es)				
Not regulated	Not regulated	Not regulated		
14.4. Packing group				
Not regulated	Not regulated	Not regulated		
14.5. Environmental hazards				
Not regulated	Not regulated	Not regulated		

No supplementary information available

14.6. Special precautions for user

Overland transport

Not regulated

Transport by sea

Not regulated

Air transport

Not regulated

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

EU-Regulations

REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains substance(s) listed on the REACH Candidate List in concentrations ≥ 0.1 % or SCL: Decamethylcyclopentasiloxane (EC 208-764-9, CAS 541-02-6), octamethylcyclotetrasiloxane; [D4] (EC 209-136-7, CAS 556-67-2)

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

22/08/2024 (Issue date) 03/02/2025 (Printing date)

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (2024/590)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 2024/590 on substances that deplete the ozone layer)

Council Regulation (EC) for the control of dual-use items

Contains no substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items

Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

ADN European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways ADR European Agreement concerning the International Carriage of Dangerous Goods by Road ATE Acute Toxicity Estimate BCF Bioconcentration factor BLV Biological limit value BOD Biochemical oxygen demand (BOD) COD Chemical oxygen demand (COD) DMEL Derived Minimal Effect level BORL Derived Minimal Effect level BC-No. European Community number EC-No. European Standard EN European Standard IARC International Agency for Research on Cancer IATA International Agency for Research on Cancer IATA International Agency for Research on Cancer IACS Median effective concentration IADG International Maritime Dangerous Goods LOSE Median lethal dose LOAEL Lowest Observed Adverse Effect Level NOAEC No-Observed Adverse Effect Level NOAE No-Observed Effect Concentration OEC No-Observed Effect Concentratio	Abbreviations and acronyms:		
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NOEC No-Observed Effect Concentration OECD Organisation for Economic Co-operation and Development OEL Occupational Exposure Limit PBT Persistent Bioaccumulative Toxic	NOAEC	No-Observed Adverse Effect Concentration	
OECD Organisation for Economic Co-operation and Development OEL Occupational Exposure Limit PBT Persistent Bioaccumulative Toxic	NOAEL	No-Observed Adverse Effect Level	
OEL Occupational Exposure Limit PBT Persistent Bioaccumulative Toxic	NOEC	No-Observed Effect Concentration	
PBT Persistent Bioaccumulative Toxic	OECD	Organisation for Economic Co-operation and Development	
	OEL	Occupational Exposure Limit	
PNEC Predicted No-Effect Concentration	PBT	Persistent Bioaccumulative Toxic	
	PNEC	Predicted No-Effect Concentration	
RID Regulations concerning the International Carriage of Dangerous Goods by Rail	RID	Regulations concerning the International Carriage of Dangerous Goods by Rail	
SDS Safety Data Sheet	SDS	Safety Data Sheet	
STP Sewage treatment plant	STP	Sewage treatment plant	

22/08/2024 (Issue date) 03/02/2025 (Printing date)

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Abbreviations and acronyms:	
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
VOC	Volatile Organic Compounds
CAS-No.	Chemical Abstract Service number
N.O.S.	Not Otherwise Specified
vPvB	Very Persistent and Very Bioaccumulative
ED	Endocrine disruptor

Full text of H- and EUH-statements:		
Acute Tox. 4 (Inhalation:vapour)	Acute toxicity (inhalation:vapour) Category 4	
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1	
Flam. Liq. 3	Flammable liquids, Category 3	
Repr. 2	Reproductive toxicity, Category 2	
Skin Sens. 1B	Skin sensitisation, category 1B	
H226	Flammable liquid and vapour.	
H317	May cause an allergic skin reaction.	
H332	Harmful if inhaled.	
H361f	Suspected of damaging fertility.	
H410	Very toxic to aquatic life with long lasting effects.	
EUH208	Contains trimethoxyvinylsilane; trimethoxy(vinyl)silane. May produce an allergic reaction.	
EUH210	Safety data sheet available on request.	

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.