

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 22/01/2024 Version: 1.0

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

1.1. Product identifier

Product form Mixture Multi MS - 80 ml Trade name

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

1.2.1. Relevant identified uses

Main use category Consumer use, Professional use, Industrial use

Use of the substance/mixture : Sealants

1.2.2. Uses advised against

No additional information available

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 : EUH210 - Safety data sheet available on request.

EUH212 - Warning! Hazardous respirable dust may be formed when used. Do not breathe dust.

EUH208 - Contains trimethoxyvinylsilane; trimethoxy(vinyl)silane, N-(3-(trimethoxysilyl)propyl)ethylenediamine. May produce an allergic reaction.

2.3. Other hazards

Contains no PBT and/or vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

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 %

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

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3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
titanium dioxide	CAS-No.: 13463-67-7 EC-No.: 236-675-5 REACH-no: 01-2119489379-17	< 5	Not classified
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	0.1 – 1	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation:vapour), H332 (ATE=16.8 mg/l/4h) Skin Sens. 1B, H317
N-(3-(trimethoxysilyl)propyl)ethylenediamine	CAS-No.: 1760-24-3 EC-No.: 217-164-6 REACH-no: 01-2119970215-39	0.1 – 1	Eye Dam. 1, H318 Skin Sens. 1, H317 STOT SE 3, H335

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

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area.

6.1.2. 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.

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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

8.1.1 National occupational exposure and biological limit values

titanium dioxide (13463-67-7)

United Kingdom - Occupational Exposure Limits

Local name	Titanium dioxide
WEL TWA (OEL TWA)	4 mg/m³ respirable 10 mg/m³ total inhalable
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

8.2.2. Personal protection equipment

Personal protective equipment symbol(s):





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8.2.2.1. Eye and face protection

Eye protection:

Safety glasses

8.2.2.2. 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

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

8.2.2.3. Respiratory protection

Respiratory protection:

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

: Solid

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

Physical state

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Colour white. Appearance Paste. Odour : characteristic. : Not available Odour threshold Melting point Not available Freezing point : Not available Boiling point : Not available : Not available Flammability Lower explosion limit Not applicable Upper explosion limit : Not applicable Not applicable Flash point Auto-ignition temperature Not applicable Not available Decomposition temperature : Not available рΗ pH solution : Not available Viscosity, kinematic > 21 mm²/s Solubility : Not available Partition coefficient n-octanol/water (Log Kow) Not available Vapour pressure Not available Vapour pressure at 50°C Not available Density 1.51 g/ml Not available Relative density Relative vapour density at 20°C Not applicable Not available Particle size

trimethoxyvinylsilane; trimethoxy(vinyl)silane (2768-02-7)		
Boiling point	123 °C	
Flash point	25.5 °C	
Auto-ignition temperature	235 °C	

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trimethoxyvinylsilane; trimethoxy(vinyl)silane (2768-02-7)		
Vapour pressure	88 hPa	

N-(3-(trimethoxysilyl)propyl)ethylenediamine (1760-24-3)		
Boiling point	140 – 146 °C	

Flash point 120 °C
Vapour pressure 0.75 mm Hg

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

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).

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

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

trimethoxyvinylsilane; trimethoxy(vinyl)silane (2768-02-7)			
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)		
ATE CLP (oral)	7120 mg/kg bodyweight		
ATE CLP (dermal)	3760 mg/kg bodyweight		
ATE CLP (vapours)	16.8 mg/l/4h		
ATE CLP (dust,mist)	16.8 mg/l/4h		

N-(3-(trimethoxysilyI)propyI)ethylenediamine (1760-24-3)		
LD50 oral rat	2295 mg/kg	
LD50 dermal rabbit	> 2000 mg/kg bodyweight	
LC50 Inhalation - Rat	1.49 – 2.44 mg/l	

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ATE CLP (oral)	2295 mg/kg bodyweight			
ATE CLP (vapours)	1.49 mg/l/4h			
ATE CLP (dust,mist)	1.49 mg/l/4h			
titanium dioxide (13463-67-7)				
LD50 oral rat	≥ 5000 ml/kg			
LD50 dermal rabbit	≥ 2000			
LC50 Inhalation - Rat (Dust/Mist)	6.82 mg/l/4h			
ATE CLP (dust,mist)	6.82 mg/l/4h			
Skin corrosion/irritation	: Not classified			
Serious eye damage/irritation	: Not classified			
Respiratory or skin sensitisation	: 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			
N-(3-(trimethoxysilyl)propyl)ethylenediamine (1760-24-3)				
STOT-single exposure	May cause respiratory irritation.			
STOT-repeated exposure	: Not classified			
N-(3-(trimethoxysilyI)propyI)ethylen	ediamine (1760-24-3)			
NOAEL (oral, rat, 90 days)	≥ 500 mg/kg bodyweight			
NOAEL (dermal, rat/rabbit, 90 days)	≥ 1545 mg/kg bodyweight			
- (Aspiration hazard : Not classified			
Aspiration hazard	: Not classified			
	: Not classified			
Aspiration hazard	: Not classified > 21 mm²/s			
Aspiration hazard Multi MS - 80 ml	> 21 mm²/s			
Aspiration hazard Multi MS - 80 ml Viscosity, kinematic	> 21 mm²/s			
Aspiration hazard Multi MS - 80 ml Viscosity, kinematic trimethoxyvinylsilane; trimethoxy(vi	> 21 mm²/s inyl)silane (2768-02-7) 0.7 mm²/s			

11.2. Information on other hazards

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	: The product is not considered narmful to aquatic organisms nor to cause long-term adverse effects in the	
	environment.	

Hazardous to the aquatic environment, short–term (acute)

Not classified

Hazard	lous to th	e aqua	tic enviror	nment, long	–term (c	hronic)	: No	ot classi	fied

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		

N-(3-(trimethoxysilyl)propyl)ethylenediamine (1760-24-3))
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LC50 - Fish [1]	597 mg/l Brachydanio rerio (zebra-fish
2000 11011[1]	1337 mg/i brachydamo icho (zebra iisi

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N-(3-(trimethoxysilyI)propyI)ethylenediamine (1760-24-3)		
EC50 - Crustacea [1]	81 mg/l Daphnia magna (Water flea)	
EC50 72h - Algae [1]	126 mg/l Desmodesmus subspicatus	
ErC50 algae	8.8 mg/l (OECD 201 method)	
NOEC chronic algae	20 mg/l	
titanium dioxide (13463-67-7)		
LC50 - Fish [1]	> 1000 mg/l	
EC50 - Crustacea [1]	≥ 1000	
EC50 72h - Algae [1]	> 100 mg/l	

12.2. Persistence and degradability

830 CP MS - Sealants International		
Persistence and degradability	Not rapidly degradable	
trimethoxyvinylsilane; trimethoxy(vinyl)silane (2768-02-7)		
Persistence and degradability	Rapidly degradable	
N-(3-(trimethoxysilyl)propyl)ethylenediamine (1760-24-3)		
Persistence and degradability Rapidly degradable		
titanium dioxide (13463-67-7)		
Persistence and degradability	Not rapidly degradable	

12.3. Bioaccumulative potential

N-(3-(trimethoxysilyl)propyl)ethylenediamine (1760-24-3)

Partition coefficient n-octanol/water (Log Pow) -1.67

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional waste regulation

: Disposal must be done according to official regulations.

Waste treatment methods Product/Packaging disposal recommendations : 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

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
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14.1. UN number or ID number

Not regulated for transport

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ADR	IMDG	IATA
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

15.1.1. 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 no substance(s) listed on the REACH Candidate List

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)

POP Regulation (Persistent Organic Pollutants)

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

Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

Dual-Use Regulation (428/2009)

Contains no substance subject to the COUNCIL REGULATION (EC) No 428/2009 of 5 May 2009 setting up a Community regime for the control of exports, transfer, brokering and transit 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)

15.1.2. National regulations

No additional information available

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15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Abbreviations and acronyms:	
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
DNEL	Derived-No Effect Level
EC-No.	European Community number
EC50	Median effective concentration
EN	European Standard
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limit
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
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 disrupting properties

Full text of H- and EUH-statements:

Acute Tox. 4	Acute toxicity (inhalation:vapour) Category 4
(Inhalation:vapour)	
EUH208	Contains trimethoxyvinylsilane; trimethoxy(vinyl)silane, N-(3-(trimethoxysilyl)propyl)ethylenediamine. May produce an allergic reaction.

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Full text of H- and EUH-statements:	
EUH210	Safety data sheet available on request.
EUH212	Warning! Hazardous respirable dust may be formed when used. Do not breathe dust.
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Flam. Liq. 3	Flammable liquids, Category 3
H226	Flammable liquid and vapour.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
Skin Sens. 1	Skin sensitisation, Category 1
Skin Sens. 1B	Skin sensitisation, category 1B
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation

The classification complies with

: ATP 12

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.