

Safety Data Sheet

according to Regulation (EC) No 1907/2006

CF Quick and Easy transparent

Revision date: 18.06.2021

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SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

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UFI: UU50-K0Q5-4008-TSYG

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

Adhesive, Sealant

1.3. Details of the supplier of the safety data sheet

Company name:	Chemofast Anchoring GmbH	
Street:	Hanns-Martin-Schleyer-Str. 23	
Place:	D-47877 Willich	
Telephone:	+49 2154 8123 0	Telefax: +49 2154 8123 333
Internet:	www.chemofast.de	
Responsible Department:	sdb@chemofast.de	

1.4. Emergency telephone number: +49 (0)551-19240 (GIZ-Nord, German und English 24/7)

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Regulation (EC) No 1907/2006**

Hazard categories:

Aerosol: Aerosol 3

Hazard Statements:

Pressurised container: May burst if heated.

2.2. Label elements**Regulation (EC) No 1907/2006****Signal word:** Warning**Pictograms:****Hazard statements**

H229 Pressurised container: May burst if heated.

Precautionary statements

P102 Keep out of reach of children.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P251 Do not pierce or burn, even after use.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

Special labelling of certain mixtures

EUH208 Contains 3-aminopropyltriethoxysilane. May produce an allergic reaction.

2.3. Other hazards

The product releases methanol on contact with water.

Methanol: Highly flammable liquid and vapour. Toxic if swallowed, in contact with skin or if inhaled. Causes damage to organs.

Special danger of slipping by leaking/spilling product.

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SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	GHS Classification			
2768-02-7	Trimethoxyvinylsilane			1 - 5 %
	220-449-8		01-2119513215-52	
	Flam. Liq. 3, Acute Tox. 4; H226 H332			
13822-56-5	3-(Trimethoxysilyl)propylamine			1 - 3 %
	237-511-5		01-2119510159-45	
	Skin Irrit. 2, Eye Dam. 1; H315 H318			

Full text of H and EUH statements: see section 16.

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
	Specific Conc. Limits, M-factors and ATE		
2768-02-7	220-449-8	Trimethoxyvinylsilane	1 - 5 %
	inhalation: LC50 = 16,8 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: LD50 = 3760 mg/kg; oral: LD50 = 7012 mg/kg		
13822-56-5	237-511-5	3-(Trimethoxysilyl)propylamine	1 - 3 %
	dermal: LD50 = > 10000 mg/kg; oral: LD50 = 3030 mg/kg		

Further Information

The product releases methanol on contact with water.
Contains: silicon dioxide.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Take off contaminated clothing and wash it before reuse.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap. In case of skin reactions, consult a physician.

After contact with eyes

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Remove contact lenses, if present and easy to do. Continue rinsing. Consult an ophthalmologist.

After ingestion

Do NOT induce vomiting. Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person or a person with cramps. Call a physician in any case!

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

The product releases methanol on contact with water.

Methanol: Highly flammable liquid and vapour. Toxic if swallowed, in contact with skin or if inhaled. The following symptoms may occur: stomach pain, Vomiting, Headache, Gastrointestinal complaints. May cause drowsiness or dizziness.

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

Treat symptomatically.

The product releases methanol on contact with water.

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SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**

Water spray jet, Dry extinguishing powder, alcohol resistant foam, Carbon dioxide

Unsuitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

Combustible.

In case of fire may be liberated: Silicon dioxide (SiO₂), Nitrogen oxides (NO_x), Carbon monoxide, Carbon dioxide.

Pressurised container: May burst if heated.

5.3. Advice for firefighters

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

Full protection suit.

Additional information

Heating causes rise in pressure with risk of bursting.

Move undamaged containers from immediate hazard area if it can be done safely. In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.

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

Dispose of waste according to applicable legislation.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures****General measures**

Do not breathe mist/vapours/spray. Avoid contact with eyes and skin. Remove all sources of ignition. Provide adequate ventilation.

Wear personal protection equipment (refer to section 8). Take off contaminated clothing and wash it before reuse.

For non-emergency personnel

Prevent spread over a wide area (e.g. by containment or oil barriers).

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Prevent spread over a wide area (e.g. by containment or oil barriers).

6.3. Methods and material for containment and cleaning up**For containment**

Take up mechanically, placing in appropriate containers for disposal. Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

Other information

Special danger of slipping by leaking/spilling product.

6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

SECTION 7: Handling and storage**7.1. Precautions for safe handling**

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Advice on safe handling

Provide adequate ventilation as well as local exhaustion at critical locations. Ensure adequate ventilation of the storage area. Do not breathe mist/vapours/spray. Do not get in eyes, on skin, or on clothing. Use personal protective equipment as required. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Take off contaminated clothing and wash it before reuse.

Advice on protection against fire and explosion

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not pierce or burn, even after use.

7.2. Conditions for safe storage, including any incompatibilities**Requirements for storage rooms and vessels**

Keep container tightly closed. Store in a dry place. Store in a closed container. Store in a cool dry place. Keep only in original packaging. Protect against direct sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

Hints on joint storage

Do not store together with: strong acids or strong bases.
Keep away from: Food and feedingstuffs.

7.3. Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****DNEL/DMEL values**

CAS No	Substance	Exposure route	Effect	Value
2768-02-7	Trimethoxyvinylsilane			
	Worker DNEL, long-term	dermal	systemic	0,2 mg/kg bw/day
	Worker DNEL, acute	inhalation	systemic	4,9 mg/m ³
	Worker DNEL, long-term	inhalation	systemic	2,6 mg/m ³
	Consumer DNEL, long-term	oral	systemic	0,1 mg/kg bw/day
	Consumer DNEL, acute	dermal	systemic	0,1 mg/kg bw/day
	Consumer DNEL, long-term	dermal	systemic	0,1 mg/kg bw/day
	Consumer DNEL, acute	inhalation	systemic	93,4 mg/m ³
	Consumer DNEL, long-term	inhalation	systemic	0,7 mg/m ³
13822-56-5	3-(Trimethoxysilyl)propylamine			
	Worker DNEL, long-term	dermal	systemic	8,3 mg/kg bw/day
	Worker DNEL, acute	inhalation	systemic	17,4 mg/m ³
	Worker DNEL, long-term	inhalation	systemic	58 mg/m ³
	Consumer DNEL, long-term	oral	systemic	5,0 mg/kg bw/day
	Consumer DNEL, long-term	dermal	systemic	5,0 mg/kg bw/day
	Consumer DNEL, long-term	inhalation	systemic	17,0 mg/m ³

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PNEC values

CAS No	Substance	Value
Environmental compartment		
2768-02-7	Trimethoxyvinylsilane	
Freshwater		0,4 mg/l
Marine water		0,04 mg/l
Freshwater sediment		1,5 mg/kg
Marine sediment		0,15 mg/kg
Micro-organisms in sewage treatment plants (STP)		6,6 mg/l
Soil		0,6 mg/kg
13822-56-5	3-(Trimethoxysilyl)propylamine	
Freshwater		0,33 mg/l
Marine water		0,033 mg/l
Freshwater sediment		1,2 mg/kg
Marine sediment		0,12 mg/kg
Soil		0,045 mg/kg

Additional advice on limit values

To date, no national critical limit values exist.

8.2. Exposure controls**Appropriate engineering controls**

Provide adequate ventilation. If local exhaust ventilation is not possible or not sufficient, the entire working area must be ventilated by technical means.

Individual protection measures, such as personal protective equipment**Eye/face protection**

Wear eye protection/face protection. Wear safety glasses. DIN EN 166

Hand protection

Wear protective gloves. (EN ISO 374)

Recommended material: NBR (Nitrile rubber), Butyl caoutchouc (butyl rubber); Breakthrough time (maximum wearing time): 480 min; Thickness of the glove material : $\geq 0,5$ mm

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Skin protection

Wear suitable protective clothing.

Respiratory protection

In case of inadequate ventilation wear respiratory protection. The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state:	Liquid
Colour:	colourless, clear
Odour:	characteristic

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Odour threshold:	No data available
Changes in the physical state	
Melting point/freezing point:	not determined
Boiling point or initial boiling point and boiling range:	not determined
Flash point:	not determined
Flammability	
Solid/liquid:	not applicable
Gas:	not applicable
Lower explosion limits:	No data available
Upper explosion limits:	not determined
Auto-ignition temperature:	No data available
Self-ignition temperature	
Solid:	not applicable
Gas:	not applicable
Decomposition temperature:	No data available
pH-Value:	not determined
Viscosity / kinematic: (at 40 °C)	>= 7 mm ² /s
Water solubility:	No data available
Solubility in other solvents	
insoluble in: Water	
Partition coefficient n-octanol/water:	not determined
Vapour pressure:	No data available
Density:	1,0 - 1,1 g/cm ³
Relative vapour density:	not determined

9.2. Other information**Other safety characteristics**

Solid content:	not determined
Evaporation rate:	not determined

Further Information**SECTION 10: Stability and reactivity****10.1. Reactivity**

see section 10.3 "Possibility of hazardous reactions"

10.2. Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions

The product releases methanol on contact with water. Pressurised container: May burst if heated.

10.4. Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not pierce or burn, even after use. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

10.5. Incompatible materials

strong acids or strong bases.

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10.6. Hazardous decomposition products

Methanol

SECTION 11: Toxicological information**11.1. Information on hazard classes as defined in GB CLP Regulation****Acute toxicity**

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

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
2768-02-7	Trimethoxyvinylsilane				
	oral	LD50 mg/kg	7012	Rat	
	dermal	LD50 mg/kg	3760	Rabbit	
	inhalation (4 h) vapour	LC50	16,8 mg/l	Rat	
	inhalation aerosol	ATE	1,5 mg/l		
13822-56-5	3-(Trimethoxysilyl)propylamine				
	oral	LD50 mg/kg	3030	Rat	
	dermal	LD50 mg/kg	> 10000	Rabbit	

Irritation and corrosivity

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

Sensitising effects

Contains 3-aminopropyltriethoxysilane. May produce an allergic reaction.

Carcinogenic/mutagenic/toxic effects for reproduction

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 on tests

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

SECTION 12: Ecological information**12.1. Toxicity**

The product is not: Ecotoxic.

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CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
2768-02-7	Trimethoxyvinylsilane					
	Acute fish toxicity	LC50	191 mg/l	96 h	Oncorhynchus mykiss (Rainbow trout)	
	Acute algae toxicity	ErC50 mg/l	> 957	72 h	Desmodesmus subspicatus	
	Acute crustacea toxicity	EC50 mg/l	168,7	48 h	Daphnia magna (Big water flea)	
13822-56-5	3-(Trimethoxysilyl)propylamine					
	Acute fish toxicity	LC50 mg/l	> 934	96 h	Brachydanio rerio (zebra-fish)	
	Acute algae toxicity	ErC50 mg/l	> 1000	72 h	Desmodesmus subspicatus	
	Acute crustacea toxicity	EC50	331 mg/l	48 h	Daphnia magna (Big water flea)	

12.2. Persistence and degradability

No data available

12.3. Bioaccumulative potential

No data available

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

No data available

12.7. Other adverse effects

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Disposal recommendations**

Dispose of waste according to applicable legislation. Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Subsequent waste code numbers of the European Waste Catalogue are considered as recommendations.

List of Wastes Code - residues/unused products

160505 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; gases in pressure containers other than those mentioned in 16 05 04

List of Wastes Code - used product

160505 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; gases in pressure containers other than those mentioned in 16 05 04

Contaminated packaging

Empty carefully and as completely as possible. Be careful with empty containers. With inflammation Explosion possible.

SECTION 14: Transport information**Land transport (ADR/RID)**

- 14.1. UN number or ID number:** UN 1950
14.2. UN proper shipping name: AEROSOLS
14.3. Transport hazard class(es): 2

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14.4. Packing group:

-

Hazard label:

2.2



Classification code:

5A

Special Provisions:

190 327 344 625

Limited quantity:

1 L

Excepted quantity:

E0

Transport category:

3

Tunnel restriction code:

E

Inland waterways transport (ADN)**14.1. UN number or ID number:**

UN 1950

14.2. UN proper shipping name:

AEROSOLS

14.3. Transport hazard class(es):

2

14.4. Packing group:

-

Hazard label:

2.2



Classification code:

5A

Special Provisions:

190 327 344 625

Limited quantity:

1 L

Excepted quantity:

E0

Marine transport (IMDG)**14.1. UN number or ID number:**

UN 1950

14.2. UN proper shipping name:

AEROSOLS

14.3. Transport hazard class(es):

2.2

14.4. Packing group:

-

Hazard label:

2.2



Special Provisions:

63, 190, 277, 327, 344, 381, 959

Limited quantity:

1000 mL

Excepted quantity:

E0

EmS:

F-D, S-U

Air transport (ICAO-TI/IATA-DGR)**14.1. UN number or ID number:**

UN 1950

14.2. UN proper shipping name:

AEROSOLS, NON-FLAMMABLE

14.3. Transport hazard class(es):

2.2

14.4. Packing group:

-

Hazard label:

2.2



Special Provisions:

A98 A145 A167 A802

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Limited quantity Passenger:	30 kg G
Passenger LQ:	Y203
Excepted quantity:	E0
IATA-packing instructions - Passenger:	203
IATA-max. quantity - Passenger:	75 kg
IATA-packing instructions - Cargo:	203
IATA-max. quantity - Cargo:	150 kg

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user

No information available.

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 regulatory information**

Restrictions on use (REACH, annex XVII):

Entry 3

National regulatory information

Water hazard class (D): 1 - slightly hazardous to water

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information**Abbreviations and acronyms**

ADN: Accord européen relatif au transport international des marchandises Dangereuses par voie de Navigation

(European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)

ADR: Accord européen sur le transport des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

CAS: Chemical Abstracts Service

CLP: Classification, Labeling and Packaging

DMEL: Derived Minimal Effect level

DNEL: Derived No Effect Level

EC50: Effective concentration, 50%

ErC50: EC50 in terms of reduction of growth rate

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations (DRG) for the air transport (IATA)

IMDG: International Maritime Code for Dangerous Goods

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

NOEC: No Observed Effect Concentration

OECD: Organisation for Economic Co-operation and Development

PBT: persistent, bioaccumulative and toxic

vPvB: very persistent and very bioaccumulative

PNEC: Predicted No Effect Concentration

REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals

RID: Règlement concernant le transport international ferroviaire de marchandises dangereuses (Regulations Concerning the International Carriage of Dangerous Goods by Rail)

VOC: Volatile organic compound

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Acute Tox. 2: Acute toxicity, Category 2
 Aquatic Chronic 3: Long-term aquatic hazard, Category 3
 Eye Irrit. 2: Serious eye damage/eye irritation, Category 2
 Skin Sens. 1: Skin sensitization, Category 1
 STOT SE 3: Specific target organ toxicity (single exposure), Category 3
 CLP: Classification, labelling and Packaging
 REACH: Registration, Evaluation and Authorization of Chemicals
 GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals
 UN: United Nations
 DNEL: Derived No Effect Level
 DMEL: Derived Minimal Effect Level
 PNEC: Predicted No Effect Concentration
 ATE: Acute toxicity estimate
 LL50: Lethal loading, 50%
 EL50: Effect loading, 50%
 EC50: Effective Concentration 50%
 ErC50: Effective Concentration 50%, growth rate
 NOEC: No Observed Effect Concentration
 BCF: Bio-concentration factor
 PBT: persistent, bioaccumulative, toxic
 vPvB: very persistent, very bioaccumulative
 ADR: Accord européen sur le transport des marchandises dangereuses par Route
 (European Agreement concerning the International Carriage of Dangerous Goods by Road)
 RID: Regulations concerning the international carriage of dangerous goods by rail
 ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
 (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation
 intérieures)
 EmS: Emergency Schedules
 MFAG: Medical First Aid Guide
 ICAO: International Civil Aviation Organization
 MARPOL: International Convention for the Prevention of Marine Pollution from Ships
 IBC: Intermediate Bulk Container
 SVHC: Substance of Very High Concern
 For abbreviations and acronyms, see table at <http://abbrev.esdscom.eu>

Classification for mixtures and used evaluation method according to GB CLP Regulation

Classification	Classification procedure
Aerosol 3; H229	On basis of test data

Relevant H and EUH statements (number and full text)

H226	Flammable liquid and vapour.
H229	Pressurised container: May burst if heated.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H332	Harmful if inhaled.
EUH208	Contains 3-aminopropyltriethoxysilane. May produce an allergic reaction.

Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)