

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 14.10.2021

Version number 2 (replaces version 1)

Revision: 14.10.2021

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

- **1.1 Product identifier**
 - **Trade name: Aqua-Fix PRO transparent**
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**

No further relevant information available.

 - **Application of the substance / the mixture** Sealing
- **1.3 Details of the supplier of the safety data sheet**
 - **Manufacturer/Supplier:**

Fermit GmbH
Zur Heide 4,
D- 53560 Vettelschoß
www.fermit.de
 - **Informing department:**

Tel.: +49 (0) 2645-2207
Fax: +49 (0) 2645-3113
Email: info@fermit.de
- **1.4 Emergency telephone number:** Tel.: +49 (0) 2645-2207

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
 - **Classification according to Regulation (EC) No 1272/2008**

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.
- **2.2 Label elements**
 - **Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the CLP regulation.

 - **Hazard pictograms** Void
 - **Signal word** Void
 - **Hazard-determining components of labelling:**

1 Methyl-1,2,2,6,6-pentamethylpiperidin-4-yldecanedioate bis(1,2,2,6,6-pentamethylpiperidin-4-yl)decanedioate
3-aminopropyltriethoxysilane
N-(3-(trimethoxysilyl)propyl)ethylenediamine
poly(oxy-1,2-ethanediyl), α -[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]- ω -[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropoxy]-
 - **Hazard statements**

H412 Harmful to aquatic life with long lasting effects.
 - **Precautionary statements**

P102 Keep out of reach of children.
P273 Avoid release to the environment.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
- **2.3 Other hazards**
 - **Results of PBT and vPvB assessment**
 - **PBT:** Not applicable.
 - **vPvB:** Not applicable.

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SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

· **Description:** Mixture of the substances listed below including additives not requiring identification.

· **Dangerous components:**

CAS: 2768-02-7 EINECS: 220-449-8 Reg.nr.: 01-2119513215-52-X	trimethoxyvinylsilane ⚠ Flam. Liq. 3, H226; ⚠ Acute Tox. 4, H332	2.5 - 10%
CAS: 67-56-1 EINECS: 200-659-6 Reg.nr.: 01-2119433307-44-X	methanol ⚠ Flam. Liq. 2, H225; ⚠ Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331; ⚠ STOT SE 1, H370 Specific concentration limits: STOT SE 1; H370: C ≥ 10 % STOT SE 2; H371: 3 % ≤ C < 10 %	≤ 1%
CAS: 919-30-2 EINECS: 213-048-4 Reg.nr.: 01-2119480479-24-X	3-aminopropyltriethoxysilane ⚠ Skin Corr. 1B, H314; ⚠ Acute Tox. 4, H302; Skin Sens. 1, H317	≥ 0.1 - < 1%
CAS: 1760-24-3 EINECS: 217-164-6 Reg.nr.: 01-2119970215-39-X	N-(3-(trimethoxysilyl)propyl)ethylenediamine ⚠ Eye Dam. 1, H318; ⚠ Skin Sens. 1, H317	≥ 0.1 - < 1%
CAS: 104810-47-1 ELINCS: 400-830-7	poly(oxy-1,2-ethanediyl), α-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-ω-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropoxy]- ⚠ Aquatic Chronic 2, H411; ⚠ Skin Sens. 1, H317	≥ 0.25 - < 1%
CAS: 1065336-91-5 EC number: 915-687-0 Reg.nr.: 01-2119491304-40-X	1Methyl-1,2,2,6,6-pentamethylpiperidin-4-yldecandioate bis(1,2,2,6,6-pentamethylpiperidin-4-yl)decanedioat ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Skin Sens. 1A, H317	≥ 0.25 - < 1%

· **Additional information** For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

· 4.1 Description of first aid measures

· **After inhalation** Supply fresh air; consult doctor in case of symptoms.

· **After skin contact**

Wash intensively with water and soap. Use protective skin ointment.

In case of skin irritations or sensitizing effects, consult doctor.

· **After eye contact**

Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.

· **After swallowing**

Rinse out mouth.

In case of persistent symptoms consult doctor.

· **4.2 Most important symptoms and effects, both acute and delayed** Allergic reactions

· **4.3 Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

SECTION 5: Firefighting measures

· 5.1 Extinguishing media

· **Suitable extinguishing agents**

Extinguishing powder, foam or water jet. Fight larger fires with water jet or alcohol-resistant foam.

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- **For safety reasons unsuitable extinguishing agents** Water with a full water jet.
- **5.2 Special hazards arising from the substance or mixture**
Carbon monoxide and carbon dioxide
Nitrogen oxides (NOx)
- **5.3 Advice for firefighters**
- **Protective equipment:** Wear self-contained breathing apparatus.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Avoid contact to eyes, skin and clothes.
Ensure adequate ventilation
- **6.2 Environmental precautions:**
Do not allow to enter drainage system, surface or ground water.
Inform respective authorities in case product reaches water or sewage system.
- **6.3 Methods and material for containment and cleaning up:**
Collect mechanically.
Send for recovery or disposal in suitable containers.
- **6.4 Reference to other sections**
See Section 7 for information on safe handling
See Section 8 for information on personal protection equipment.
See Section 13 for information on disposal.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**
Avoid contact with eyes and skin.
Don't eat, drink or smoke while working.
- **Information about protection against explosions and fires:** No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage**
 - **Requirements to be met by storerooms and containers:** Keep container tightly closed.
 - **Information about storage in one common storage facility:**
Keep away from food, drink and animal feeding stuffs.
 - **Further information about storage conditions:**
Store in cool, dry conditions in well sealed containers.
- **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**
- **Components with limit values that require monitoring at the workplace:**
WEL: workplace exposure limit
OEL: Occupational Exposure Limit
IOELV: Indicative Occupational Exposure Limit Values, workplace threshold value of the European Union

67-56-1 methanol

IOELV (European Union)	Long-term value: 260 mg/m ³ , 200 ppm Skin
WEL (Great Britain)	Short-term value: 333 mg/m ³ , 250 ppm Long-term value: 266 mg/m ³ , 200 ppm Sk

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· DNELs**2768-02-7 trimethoxyvinylsilane**

Oral	DNEL (consumer, long-term, systemic)	0.3 mg/kg bw/day (human)
Dermal	DNEL (worker, long-term, systemic)	3.9 mg/kg bw/day (human)
	DNEL (consumer, long-term, systemic)	7.8 mg/kg bw/day (human)
Inhalative	DNEL (worker, long-term, systemic)	27.6 mg/m ³ (human)
	DNEL (consumer, long-term, systemic)	18.9 mg/m ³ (human)

67-56-1 methanol

Oral	DNEL (consumer, short-term, systemic)	4 mg/kg bw/day (human)
	DNEL (consumer, long-term, systemic)	4 mg/kg bw/day (human)
Dermal	DNEL (worker, short-term, systemic)	20 mg/kg bw/day (human)
	DNEL (worker, long-term, systemic)	20 mg/kg bw/day (human)
	DNEL (consumer, short-term, systemic)	4 mg/kg bw/day (human)
Inhalative	DNEL (consumer, long-term, systemic)	4 mg/kg bw/day (human)
	DNEL (worker, short-term, systemic)	130 mg/m ³ (human)
	DNEL (worker, long-term, systemic)	130 mg/m ³ (human)
	DNEL (consumer, short-term, systemic)	26 mg/m ³ (human)
	DNEL (consumer, long-term, systemic)	26 mg/m ³ (human)
	DNEL (worker, short-term, local)	130 mg/m ³ (human)
	DNEL (worker, long-term, local)	130 mg/m ³ (human)
	DNEL (consumer, short-term, local)	26 mg/m ³ (human)
DNEL (consumer, long-term, local)	26 mg/m ³ (human)	

919-30-2 3-aminopropyltriethoxysilane

Dermal	DNEL (worker, short-term, systemic)	8.3 mg/kg bw/day (human)
	DNEL (worker, long-term, systemic)	8.3 mg/kg bw/day (human)
	DNEL (consumer, short-term, systemic)	5 mg/kg bw/day (human)
	DNEL (consumer, long-term, systemic)	5 mg/kg bw/day (human)
Inhalative	DNEL (worker, short-term, systemic)	59 mg/m ³ (human)
	DNEL (worker, long-term, systemic)	59 mg/m ³ (human)
	DNEL (consumer, short-term, systemic)	17.4 mg/m ³ (human)
	DNEL (consumer, long-term, systemic)	17.4 mg/m ³ (human)

· PNECs**2768-02-7 trimethoxyvinylsilane**

PNEC aqua (freshwater)	0.4 mg/L (.)
PNEC aqua (marine water)	0.04 mg/L (.)
PNEC soil	0.06 mg/kg soil dw (.)
PNEC sediment (freshwater)	1.5 mg/kg sedim. dw (.)
PNEC sediment (marine water)	0.15 mg/kg sedim. dw (.)

67-56-1 methanol

PNEC aqua (freshwater)	20.8 mg/L (.)
PNEC aqua (marine water)	2.08 mg/L (.)
PNEC STP	100 mg/L (.)
PNEC soil	100 mg/kg soil dw (.)
PNEC sediment (freshwater)	77 mg/kg sedim. dw (.)
PNEC sediment (marine water)	7.7 mg/kg sedim. dw
PNEC aqua (intermittent releases)	1,540 mg/L (.)

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919-30-2 3-aminopropyltriethoxysilane

PNEC aqua (freshwater)	0.33 mg/L (.)
PNEC aqua (marine water)	0.033 mg/L (.)
PNEC STP	13 mg/L (.)
PNEC soil	0.05 mg/kg soil dw (.)
PNEC sediment (freshwater)	1.2 mg/kg sedim. dw (.)
PNEC sediment (marine water)	0.12 mg/kg sedim. dw (.)
PNEC aqua (intermittent releases)	3.3 mg/L (.)

- **Additional information:** The lists that were valid during the compilation were used as basis.

- **8.2 Exposure controls**

- **Individual protection measures, such as personal protective equipment**

- **General protective and hygienic measures**

- Keep away from foodstuffs, beverages and food.

- Wash hands during breaks and at the end of the work.

- Avoid contact with the eyes and skin.

- Use skin protection cream for preventive skin protection.

- **Breathing equipment:** Not required.

- **Hand protection**

- Protective gloves are only required in case of intense and/or prolonged skin contact with the product.

- Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves**

- Nitrile rubber, NBR

- The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

- **Penetration time of glove material**

- The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye/face protection** Not required.

SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**

- **General Information**

- **Colour:** transparent

- **Odour:** Characteristic

- **Melting point/freezing point:** Not determined

- **Boiling point or initial boiling point and boiling range** Not determined

- **Flash point:** Not applicable

- **SADT**

- **Viscosity:**

- **Kinematic viscosity** Not determined.

- **dynamic:** Not determined.

- **Solubility**

- **Water:** Insoluble

- **Vapour pressure:** Not determined.

- **Density and/or relative density**

- **Density** Not determined

- **Relative density** > 1

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9.2 Other information
Appearance:
Form:

Pasty

Important information on protection of health and environment, and on safety.
Explosive properties:

Product is not explosive.

VOC EU

16 g/L

Information with regard to physical hazard classes
Explosives

Void

Flammable gases

Void

Aerosols

Void

Oxidising gases

Void

Gases under pressure

Void

Flammable liquids

Void

Flammable solids

Void

Self-reactive substances and mixtures

Void

Pyrophoric liquids

Void

Pyrophoric solids

Void

Self-heating substances and mixtures

Void

Substances and mixtures, which emit flammable gases in contact with water

Void

Oxidising liquids

Void

Oxidising solids

Void

Organic peroxides

Void

Corrosive to metals

Void

Desensitised explosives

Void

SECTION 10: Stability and reactivity

• **10.1 Reactivity** No further relevant information available.

• **10.2 Chemical stability**

• **Thermal decomposition / conditions to be avoided:**

No decomposition if used according to specifications.

• **10.3 Possibility of hazardous reactions** No dangerous reactions known

• **10.4 Conditions to avoid** No further relevant information available.

• **10.5 Incompatible materials:** No further relevant information available.

• **10.6 Hazardous decomposition products:**

None in case of intended use and storage in compliance with instructions.

SECTION 11: Toxicological information

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

• **Acute toxicity** Based on available data, the classification criteria are not met.

• **LD/LC50 values that are relevant for classification:**

2768-02-7 trimethoxyvinylsilane

Oral	LD50	7,120 mg/kg (rat)
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67-56-1 methanol

Oral	LD50	7,000 - 9,000 mg/kg (rhesus monkey)
		> 5,000 mg/kg (pig)
	LDL0	> 2,528 mg/kg (rat)

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Dermal	LD50	17,100 mg/kg (rabbit)
Inhalative	LC50	128.2 mg/l/4h (rat)
	LC50	43.68 mg/l/6h (cat)

919-30-2 3-aminopropyltriethoxysilane

Oral	LD50	1,490 mg/kg (rat) (OECD 401)
Dermal	LD50	4,290 mg/kg (rabbit) (OECD 402)
Inhalative	LC50	> 7.35 mg/l/4h (rat) (OECD 403)

- **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**
Experimental data has shown that the concentration of potentially sensitizing components present in this product does not induce skin sensitization.
- **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 toxicological information:**

- **Repeated dose toxicity**

919-30-2 3-aminopropyltriethoxysilane

Oral	NOAEL (90d)	200 mg/kg bw/day (rat) (OECD 408)
Dermal	NOAEL (28d)	84 mg/kg bw/day (rabbit) (OECD 412)

- **11.2 Information on other hazards**

- **Endocrine disrupting properties**

None of the ingredients is listed.

SECTION 12: Ecological information

- **12.1 Toxicity**

- **Aquatic toxicity:**

67-56-1 methanol

LC50	15,400 mg/l (fish)
EC50 (static)	> 10,000 mg/l/48h (Daphnia magna) (DIN 38412-11)
EC50 (static)	22,000 mg/l/96h (Pseudokirchneriella subcapitata) (OECD 201)

919-30-2 3-aminopropyltriethoxysilane

EC50 (static)	331 mg/l/48h (Daphnia magna) (OECD 202)
LC50	> 934 mg/l/96h (Danio rerio) (OECD 203)
EC50 (static)	> 1,000 mg/l/72h (Desmodesmus subspicatus) (EU C.3)

- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment**
 - **PBT:** Not applicable.
 - **vPvB:** Not applicable.
- **12.6 Endocrine disrupting properties**
The product does not contain substances with endocrine disrupting properties.

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· **12.7 Other adverse effects**

· **Additional ecological information:**

· **General notes:**

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.
Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

SECTION 13: Disposal considerations

· **13.1 Waste treatment methods**

· **Recommendation**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

The waste code numbers mentioned are recommendations based on the probable use of the product.

· **European waste catalogue**

08 00 00	WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS
08 04 00	wastes from MFSU of adhesives and sealants (including waterproofing products)
08 04 09*	waste adhesives and sealants containing organic solvents or other hazardous substances
HP14	Ecotoxic

· **Uncleaned packagings:**

· **Recommendation:**

Dispose of packaging according to regulations on the disposal of packagings.
Cleaned packing materials have to be admitted to local recycling circuits.

SECTION 14: Transport information

· **14.1 UN number or ID number**

· **ADR/ADN, ADN, IMDG, IATA** Void

· **14.2 UN proper shipping name**

· **ADR/ADN, ADN, IMDG, IATA** Void

· **14.3 Transport hazard class(es)**

· **ADR/ADN, ADN, IMDG, IATA**

· **Class** Void

· **14.4 Packing group**

· **ADR/ADN, IMDG, IATA** Void

· **14.5 Environmental hazards:**

· **Marine pollutant:** No

· **14.6 Special precautions for user**

Not applicable.

· **14.7 Maritime transport in bulk according to IMO instruments**

Not applicable.

· **Transport/Additional information:**

Not dangerous according to the above specifications.

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· **UN "Model Regulation":** Void

SECTION 15: Regulatory information

· **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

· **Directive 2012/18/EU**

· **Named dangerous substances - ANNEX I** None of the ingredients is listed.

· **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3, 69

· **DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**

None of the ingredients is listed.

· **REGULATION (EU) 2019/1148**

· **Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**

None of the ingredients is listed.

· **Annex II - REPORTABLE EXPLOSIVES PRECURSORS**

None of the ingredients is listed.

· **Regulation (EC) No 273/2004 on drug precursors**

None of the ingredients is listed.

· **Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**

None of the ingredients is listed.

· **National regulations**

· **Water hazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.

· **Substances of very high concern (SVHC) according to REACH, Article 57**

None of the ingredients is contained.

· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Relevant phrases**

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H301 Toxic if swallowed.

H302 Harmful if swallowed.

H311 Toxic in contact with skin.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H331 Toxic if inhaled.

H332 Harmful if inhaled.

H370 Causes damage to organs.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H411 Toxic to aquatic life with long lasting effects.

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• **Department issuing data specification sheet:**

► **DEKRA** This Safety Data Sheet has been drawn up in cooperation with:
DEKRA Assurance Services GmbH, Hanomagstr. 12, D-30449 Hanover, Germany,
phone: (+49) 511 42079 - 0, reach@dekra.com.

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• **Version number of previous version: 1**

• **Abbreviations and acronyms:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 2: Flammable liquids – Category 2

Flam. Liq. 3: Flammable liquids – Category 3

Acute Tox. 3: Acute toxicity – Category 3

Acute Tox. 4: Acute toxicity – Category 4

Skin Corr. 1B: Skin corrosion/irritation – Category 1B

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Skin Sens. 1: Skin sensitisation – Category 1

Skin Sens. 1A: Skin sensitisation – Category 1A

STOT SE 1: Specific target organ toxicity (single exposure) – Category 1

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

• **Sources** This safety data sheet was created based on the information provided by the supplier.

• *** Data compared to the previous version altered.**

EU