

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 8 Dec 2020

Print date: 3 Feb 2021

Version: 2



AQUAPROTECT L

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

1.1. Product identifier

Trade name/designation:

AQUAPROTECT L

UFI:

S0F1-1206-MCFE-D1JR

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]:

Hazard classes and hazard categories	Hazard statements	Classification procedure
flammable liquids (Flam. Liq. 3)	H226: Flammable liquid and vapour.	On basis of test data.

2.2. Label elements

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

Hazard pictograms:



GHS02

Flame

Signal word: Warning

Hazard statements for physical hazards

H226	Flammable liquid and vapour.
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Supplemental hazard information: -

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Precautionary statements Prevention

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233	Keep container tightly closed.
P280	Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary statements Response

P370 + P378	In case of fire: Use sand, extinguishing powder or alcohol-resistant foam to extinguish.
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Precautionary statements Storage

P403 + P235	Store in a well-ventilated place. Keep cool.
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Precautionary statements Disposal

P501	Dispose of contents/container to an appropriate recycling or disposal facility.
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2.3. Other hazards

No data available

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]	Concen- tration
CAS No.: 35435-21-3 EC No.: 252-558-1	triethoxy(2,4,4-trimethylpentyl)silane The substance is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP]. Warning H226	60 - ≤ 100 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. In case of respiratory tract irritation, consult a physician.

In case of skin contact:

After contact with skin, wash immediately with plenty of water and soap.

After eye contact:

In case of contact with eyes, rinse immediately thoroughly with plenty of edible oil and consult an ophthalmologist.

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 data available

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

Treat symptomatically.

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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

alcohol resistant foam Extinguishing powder Carbon dioxide (CO2) Dry sand

Unsuitable extinguishing media:

Water spray jet 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.

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:

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.

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7.2. Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions:

Keep container tightly closed in a cool, well-ventilated place.

7.3. Specific end use(s)

No data available

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
CH	ethanol CAS No.: 64-17-5 EC No.: 200-578-6	① 500 ppm (960 mg/m ³) ② 1,000 ppm (1,920 mg/m ³)
CZ	ethanol CAS No.: 64-17-5 EC No.: 200-578-6	① 522 ppm (1,000 mg/m ³) ② 1,566 ppm (3,000 mg/m ³)
PL	ethanol CAS No.: 64-17-5 EC No.: 200-578-6	① 1,900 mg/m ³
NO	ethanol CAS No.: 64-17-5 EC No.: 200-578-6	① 500 ppm (950 mg/m ³)
IE	ethanol CAS No.: 64-17-5 EC No.: 200-578-6	② 1,000 ppm
MY	ethanol CAS No.: 64-17-5 EC No.: 200-578-6	① 1,000 ppm (1,880 mg/m ³)
HTP (FI)	ethanol CAS No.: 64-17-5 EC No.: 200-578-6	① 1,000 ppm (1,900 mg/m ³) ② 1,300 ppm (2,500 mg/m ³)
LT	ethanol CAS No.: 64-17-5 EC No.: 200-578-6	① 500 ppm (1,000 mg/m ³) ② 1,000 ppm (1,900 mg/m ³)
SE	ethanol CAS No.: 64-17-5 EC No.: 200-578-6	① 500 ppm (1,000 mg/m ³) ③ 1,000 ppm (1,900 mg/m ³)
NPEL (SK)	ethanol CAS No.: 64-17-5 EC No.: 200-578-6	① 500 ppm (960 mg/m ³) ② 1,000 ppm (1,920 mg/m ³)
DK	ethanol CAS No.: 64-17-5 EC No.: 200-578-6	① 1,000 ppm (1,900 mg/m ³) ② 2,000 ppm (3,800 mg/m ³)
NL	ethanol CAS No.: 64-17-5 EC No.: 200-578-6	① 260 mg/m ³ ② 1,900 mg/m ³ ⑤ (Kankerverwekkend, kan door de huid in het lichaam worden opgenomen)
MAK (AT)	ethanol CAS No.: 64-17-5 EC No.: 200-578-6	① 1,000 ppm (1,900 mg/m ³)
MAK (AT)	ethanol CAS No.: 64-17-5 EC No.: 200-578-6	② 2,000 ppm (3,800 mg/m ³) ⑤ (max. 3x60 min./Schicht, Momentanwert)

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BG	ethanol CAS No.: 64-17-5 EC No.: 200-578-6	① 1,000 mg/m ³
HR	ethanol CAS No.: 64-17-5 EC No.: 200-578-6	① 1,000 ppm (1,900 mg/m ³)
BE	ethanol CAS No.: 64-17-5 EC No.: 200-578-6	① 1,000 ppm (1,907 mg/m ³)
RO	ethanol CAS No.: 64-17-5 EC No.: 200-578-6	① 1,000 ppm (1,900 mg/m ³) ② 5,000 ppm (9,500 mg/m ³)
EE	ethanol CAS No.: 64-17-5 EC No.: 200-578-6	① 500 ppm (1,000 mg/m ³) ② 1,000 ppm (1,900 mg/m ³)
Alberta (CA)	ethanol CAS No.: 64-17-5 EC No.: 200-578-6	① 1,000 ppm (1,880 mg/m ³)
LV	ethanol CAS No.: 64-17-5 EC No.: 200-578-6	① 1,000 mg/m ³
ES	ethanol CAS No.: 64-17-5 EC No.: 200-578-6	② 1,000 ppm (1,910 mg/m ³)
BC (CA)	ethanol CAS No.: 64-17-5 EC No.: 200-578-6	② 1,000 ppm
VLA (FR)	ethanol CAS No.: 64-17-5 EC No.: 200-578-6	① 1,000 ppm (1,900 mg/m ³) ② 5,000 ppm (9,500 mg/m ³)
SI	ethanol CAS No.: 64-17-5 EC No.: 200-578-6	① 500 ppm (960 mg/m ³) ② 1,000 ppm (1,920 mg/m ³)
TW	ethanol CAS No.: 64-17-5 EC No.: 200-578-6	① 1,000 ppm (1,880 mg/m ³)
WEL (GB)	ethanol CAS No.: 64-17-5 EC No.: 200-578-6	① 1,000 ppm (1,920 mg/m ³)
KR	ethanol CAS No.: 64-17-5 EC No.: 200-578-6	① 1,000 ppm (1,900 mg/m ³)
IS	ethanol CAS No.: 64-17-5 EC No.: 200-578-6	① 1,000 ppm (1,900 mg/m ³)
HU	ethanol CAS No.: 64-17-5 EC No.: 200-578-6	① 1,900 mg/m ³ ② 3,800 mg/m ³
RU	ethanol CAS No.: 64-17-5 EC No.: 200-578-6	① 1,000 mg/m ³ ③ 2,000 mg/m ³
GR	ethanol CAS No.: 64-17-5 EC No.: 200-578-6	① 1,000 ppm (1,900 mg/m ³)

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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
OSHA (US)	ethanol CAS No.: 64-17-5 EC No.: 200-578-6	① 1,000 ppm (1,900 mg/m ³)
NIOSH (US)	ethanol CAS No.: 64-17-5 EC No.: 200-578-6	① 1,000 ppm (1,900 mg/m ³)
ACGIH (US)	ethanol CAS No.: 64-17-5 EC No.: 200-578-6	② 1,000 ppm
TRGS 900 (DE)	ethanol CAS No.: 64-17-5 EC No.: 200-578-6	① 200 ppm (380 mg/m ³) ② 800 ppm (1,520 mg/m ³)
Québec (CA)	ethanol CAS No.: 64-17-5 EC No.: 200-578-6	① 1,000 ppm (1,880 mg/m ³)

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.

Respiratory protection:

Filtering device with filter or ventilator filtering device of type: AX

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: colourless

Odour: not determined

Safety relevant basis data

parameter		at °C	Method	Remark
pH	≈ 7			Not determinable due to hydrolysis. estimated
Melting point	< -50 °C		OECD 102	
Freezing point	not determined			
Initial boiling point and boiling range	236 °C			

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parameter		at °C	Method	Remark
Decomposition temperature	<i>not determined</i>			
Flash point	> 40 °C		ISO 3679	
Evaporation rate	<i>not determined</i>			
Auto-ignition temperature	265 °C			
Upper/lower flammability or explosive limits	0.4 Vol-%			
Vapour pressure	6 hPa	25 °C		
Vapour density	<i>not determined</i>			
Density	0.88 g/cm³	20 °C		
Bulk density	<i>not determined</i>			
Water solubility	< 0.00025 g/l			practically insoluble
Partition coefficient: n-octanol/water	6.1			
Dynamic viscosity	1.9 mPa*s	25 °C	DIN 51562	
Kinematic viscosity	<i>not determined</i>			

9.2. Other information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

Flammable liquid and vapour.

10.2. Chemical stability

No data available

10.3. Possibility of hazardous reactions

No data available

10.4. Conditions to avoid

No data available

10.5. Incompatible materials

Reaction with: Water Acids Alkali (lye)

10.6. Hazardous decomposition products

Hydrolysis: Ethanol

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Substance name	Toxicological information
triethoxy(2,4,4-trimethylpentyl)silane CAS No.: 35435-21-3 EC No.: 252-558-1	LD₅₀ oral: >2,000 mg/kg (Rat) OECD 423 LD₅₀ dermal: >2,000 mg/kg (Rat) OECD 402 LC₅₀ Acute inhalation toxicity (dust/mist): >11.2 mg/l 4 h (Rat) OECD 403

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.

Acute inhalation toxicity:

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

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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:

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

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
triethoxy(2,4,4-trimethylpentyl)silane CAS No.: 35435-21-3 EC No.: 252-558-1	EC₅₀: >100 mg/l (Activated sludge) 3h NOEC: 32 mg/l (Daphnia magna (Big water flea)) OECD 211

12.2. Persistence and degradability

Substance name	Biodegradation	Remark
triethoxy(2,4,4-trimethylpentyl)silane CAS No.: 35435-21-3 EC No.: 252-558-1	Yes, rapidly	

12.3. Bioaccumulative potential

Partition coefficient: n-octanol/water:

6.1

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

Substance name	Results of PBT and vPvB assessment
triethoxy(2,4,4-trimethylpentyl)silane CAS No.: 35435-21-3 EC No.: 252-558-1	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

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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:

07 01 08 *	other still bottoms and reaction residues
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*: Evidence for disposal must be provided.

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)
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14.1. UN-No.

No dangerous good in sense of these transport regulations.			
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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.
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14.3. Transport hazard class(es)

not relevant

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

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15.1.2. National regulations

[DE] National regulations

Water hazard class

WGK:

1 - schwach wassergefährdend

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]:

Hazard classes and hazard categories	Hazard statements	Classification procedure
flammable liquids (Flam. Liq. 3)	H226: Flammable liquid and vapour.	On basis of test data.

16.5. Relevant R-, H- and EUH-phrases (Number and full text)

Hazard statements

H226	Flammable liquid and vapour.
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16.6. Training advice

No data available

16.7. Additional information

No data available