

## Safety Data Sheet

Conforms to Regulation (EC) No. 1907/2006 (REACH), Article 31, Annex II, as amended by Commission Regulation (EU) 2020/878

### AQUASTOP FIX

Date of first edition: 11/19/2021

Safety Data Sheet dated 05/04/2024

version 2

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

### 1.1. Product identifier

Mixture identification:

Trade name: AQUASTOP FIX

Trade code: B0358 .010

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

Recommended use: Waterproofing product

Uses advised against: All uses other than recommended ones

### 1.3. Details of the supplier of the safety data sheet

Company: KERAKOLL S.p.A.

Via dell'Artigianato, 9

41049 Sassuolo (MODENA) - ITALY

Tel.+39 0536 816511 Fax. +39 0536816581

safety@kerakoll.com

### 1.4. Emergency telephone number

European emergency phone number 112 Kerakoll Italy - +39-0536-816511 Ireland Poison information centre: 01 809 2166 (Daily 8am-10pm) In case of emergency call 999 or 112 Malta In case of emergency call: +356 2395 2000 (24h)

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### Regulation (EC) n. 1272/2008 (CLP)

No specific hazards are encountered under normal product use.

Adverse physicochemical, human health and environmental effects:

No other hazards

### 2.2. Label elements

#### Special Provisions:

EUH208 Contains Trimethoxyvinilsilane. May produce an allergic reaction.

EUH210 Safety data sheet available on request.

#### Special provisions according to Annex XVII of REACH and subsequent amendments:

None.

### 2.3. Other hazards

No PBT, vPvB or endocrine disruptor substances present in concentration  $\geq 0.1\%$

Other Hazards: Crystalline silica in breathable fraction present in the product does not contribute to the hazard classification according to the criteria laid down by the EC Regulation 1272/2008 (CLP) by virtue of the physical state of the product itself (liquid/solid paste) as it is marketed and reasonably be expected to be used. (Position IMA-Europe, Classification of mixtures in liquid form containing crystalline silica (May 2020)). The liquid/solid paste mixture, due to hardening or exposure to heat, can lose its liquid content (water and other liquid components) and appear in a solid state; in case of handling of the solid mixture for disposal (non-compliant product) it is necessary to apply the appropriate preventive measures referred to in section 13.

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

N.A.

### 3.2. Mixtures

Mixture identification: AQUASTOP FIX

#### Hazardous components within the meaning of the CLP regulation and related classification:

Qty	Name	Ident. Numb.	Classification	Registration Number
$\geq 5 < 10\%$	Quartz	CAS:14808-60-7	STOT RE 1, H372	

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**SECTION 4: First aid measures****4.1. Description of first aid measures**

In case of skin contact:

Wash with plenty of water and soap.

In case of eyes contact:

Wash immediately with water.

In case of Ingestion:

Do not induce vomiting, get medical attention showing the SDS and label hazardous.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

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

N.A.

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

N.A.

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

Suitable extinguishing media:

Water.

Carbon dioxide (CO<sub>2</sub>).

Extinguishing media which must not be used for safety reasons:

None in particular.

**5.2. Special hazards arising from the substance or mixture**

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

**5.3. Advice for firefighters**

Use suitable breathing apparatus .

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

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

Wear personal protection equipment.

Remove persons to safety.

See protective measures under point 7 and 8.

**For emergency responders:**

Wear personal protection equipment.

**6.2. Environmental precautions**

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

Retain contaminated washing water and dispose it.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

Suitable material for taking up: absorbing material, organic, sand

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

Suitable material for taking up: absorbing material, organic, sand

Wash with plenty of water.

**6.4. Reference to other sections**

See also section 8 and 13

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

Avoid contact with skin and eyes, inhalation of vapours and mists.

Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

Contaminated clothing should be changed before entering eating areas.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

### Advice on general occupational hygiene:

#### 7.2. Conditions for safe storage, including any incompatibilities

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Adequately ventilated premises.

#### 7.3. Specific end use(s)

Recommendation(s)

None in particular

Industrial sector specific solutions:

None in particular

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## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Community Occupational Exposure Limits (OEL)

	OEL Type	Country	Occupational Exposure Limit
Quartz CAS: 14808-60-7	EU		Long Term: 0.1 mg/m <sup>3</sup> Polvere di silice cristallina respirabile, frazione inalabile. (R), A2 - Pulm fibrosis, lung cancer. Directive 2017/2398
	ACGIH		Long Term: 0.025 mg/m <sup>3</sup> R, A2 - Pulm fibrosis, lung cancer
	NATIONAL	AUSTRALIA	Long Term: 0.05 mg/m <sup>3</sup> Respirable fraction
	NATIONAL	HUNGARY	Long Term: 0.1 mg/m <sup>3</sup> Respirable aerosol
	NATIONAL	INDIA	Long Term: 10 mg/m <sup>3</sup>
	NATIONAL	IRELAND	Long Term: 0.1 mg/m <sup>3</sup> Respirable fraction
	NATIONAL	ITALY	Long Term: 0.1 mg/m <sup>3</sup> Polvere di silice cristallina respirabile (frazione inalabile). D.Lgs 81/2008
	NATIONAL	SPAIN	Long Term: 0.05 mg/m <sup>3</sup> Respirable fraction
	NATIONAL	CROATIA	Long Term: 0.1 mg/m <sup>3</sup>
	NATIONAL	AUSTRIA	Long Term: 0.05 mg/m <sup>3</sup> MAK, III C, A
	NATIONAL	BELGIUM	Long Term: 0.1 mg/m <sup>3</sup> C
	NATIONAL	DENMARK	Long Term: 0.3 mg/m <sup>3</sup>
	NATIONAL	DENMARK	Long Term: 0.1 mg/m <sup>3</sup> EK
	NATIONAL	ESTONIA	Long Term: 0.1 mg/m <sup>3</sup> 1, C
	NATIONAL	FINLAND	Long Term: 0.05 mg/m <sup>3</sup> alveolijae, liite 3
	NATIONAL	FRANCE	Long Term: 0.1 mg/m <sup>3</sup> La VLEP s'applique à la fraction alvéolaire. Forme de silice cristalline.
	NATIONAL	LITHUANIA	Long Term: 0.1 mg/m <sup>3</sup> Žiūrėti 1 priedo 3 punktą.
	NATIONAL	NETHERLAND	Long Term: 0.075 mg/m <sup>3</sup> S (2)
	NATIONAL	NORWAY	Long Term: 0.3 mg/m <sup>3</sup> K 7
	NATIONAL	NORWAY	Long Term: 0.05 mg/m <sup>3</sup>

K G 7 21

NATIONAL POLAND Long Term: 0.1 mg/m<sup>3</sup>  
6)

NATIONAL SWEDEN Long Term: 0.1 mg/m<sup>3</sup>  
C, M, 3

### Predicted No Effect Concentration (PNEC) values

Trimethoxyvinilsilane Exposure Route: Fresh Water; PNEC Limit: 400 µg/l  
CAS: 2768-02-7

Exposure Route: Intermittent releases (fresh water); PNEC Limit: 2.4 mg/l

Exposure Route: Marine water; PNEC Limit: 40 µg/l

Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 6.6 mg/l

Exposure Route: Freshwater sediments; PNEC Limit: 1.5 mg/kg

Exposure Route: Marine water sediments; PNEC Limit: 150 µg/kg

Exposure Route: Soil; PNEC Limit: 60 µg/kg

### Derived No Effect Level (DNEL) values

Trimethoxyvinilsilane Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects  
CAS: 2768-02-7 Worker Professional: 27.6 mg/m<sup>3</sup>; Consumer: 6.7 mg/m<sup>3</sup>

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, systemic effects  
Worker Professional: 260 mg/m<sup>3</sup>; Consumer: 50 mg/m<sup>3</sup>

Exposure Route: Human Dermal; Exposure Frequency: Short Term, systemic effects  
Worker Professional: 3.9 mg/kg; Consumer: 7.8 mg/kg

Exposure Route: Human Oral; Exposure Frequency: Long Term, systemic effects  
Consumer: 300 µg/kg

## 8.2. Exposure controls

Eye protection:

Not needed for normal use. Anyway, operate according good working practices.

Protection for skin:

No special precaution must be adopted for normal use.

Protection for hands:

Not needed for normal use.

Respiratory protection:

N.A.

Thermal Hazards:

N.A.

Environmental exposure controls:

N.A.

Hygienic and Technical measures

N.A.

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## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state: Liquid

Colour: N.A.

Odour: Odourless

Odour threshold: N.A.

pH: N.A.

Kinematic viscosity: N.A.

Melting point/freezing point: N.A.

Boiling point or initial boiling point and boiling range: N.A.

Flash point: > 93°C

Lower and upper explosion limit: N.A.

Relative vapour density: N.A.

Vapour pressure: N.A.

Density and/or relative density: 1.65 g/cm<sup>3</sup>

Solubility in water: Slightly soluble

Solubility in oil: N.A.

Partition coefficient n-octanol/water (log value): N.A.

Auto-ignition temperature: N.A.  
Decomposition temperature: N.A.  
Flammability: N.A.  
Volatile Organic compounds - VOCs = 0.01 % ; 0.15 g/l

**Particle characteristics:**

Particle size: N.A.

**9.2. Other information**

No other relevant information

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**SECTION 10: Stability and reactivity**

**10.1. Reactivity**

Stable under normal conditions

**10.2. Chemical stability**

Data not available.

**10.3. Possibility of hazardous reactions**

None.

**10.4. Conditions to avoid**

Stable under normal conditions.

**10.5. Incompatible materials**

None in particular.

**10.6. Hazardous decomposition products**

None.

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**SECTION 11: Toxicological information**

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

**Toxicological Information of the Preparation**

a) acute toxicity	Not classified
	Based on available data, the classification criteria are not met
b) skin corrosion/irritation	Not classified
	Based on available data, the classification criteria are not met
c) serious eye damage/irritation	Not classified
	Based on available data, the classification criteria are not met
d) respiratory or skin sensitisation	Not classified
	Based on available data, the classification criteria are not met
e) germ cell mutagenicity	Not classified
	Based on available data, the classification criteria are not met
f) carcinogenicity	Not classified
	Based on available data, the classification criteria are not met
g) reproductive toxicity	Not classified
	Based on available data, the classification criteria are not met
h) STOT-single exposure	Not classified
	Based on available data, the classification criteria are not met
i) STOT-repeated exposure	Not classified
	Based on available data, the classification criteria are not met
j) aspiration hazard	Not classified
	Based on available data, the classification criteria are not met

**Toxicological information on main components of the mixture:**

Quartz	a) acute toxicity	LD50 Oral > 2000 mg/kg
Trimethoxyvinilsilane	a) acute toxicity	LD50 Oral Rat = 7.34 ml/Kg LC50 Inhalation Vapour Rat = 2773 Ppm 4h LD50 Skin Rabbit = 3.36 mg/kg 24h
	b) skin corrosion/irritation	Skin Irritant Rabbit Negative 24h
	c) serious eye damage/irritation	Eye Irritant Rabbit No 24h
	d) respiratory or skin sensitisation	Skin Sensitization Guineapig Positive

f) carcinogenicity	Genotoxicity Rat Negative	Inhalation route
g) reproductive toxicity	No Observed Adverse Effect Level Oral Rat = 250 mg/kg	

## 11.2. Information on other hazards

### Endocrine disrupting properties:

No endocrine disruptor substances present in concentration  $\geq 0.1\%$

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## SECTION 12: Ecological information

### 12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment.

Eco-Toxicological Information:

#### List of Eco-Toxicological properties of the product

Not classified for environmental hazards.

No data available for the product

#### List of Eco-Toxicological properties of the components

Component	Ident. Numb.	Ecotox Data
Trimethoxyvinilsilane	CAS: 2768-02-7 - EINECS: 220-449-8 - INDEX: 014-049-00-0	a) Aquatic acute toxicity : LC50 Fish Oncorhynchus mykiss = 137 mg/L 96h  a) Aquatic acute toxicity : LC50 Daphnia Daphnia magna = 121 mg/L 48h b) Aquatic chronic toxicity : NOEC Daphnia Daphnia magna = 20 mg/L - 21days  a) Aquatic acute toxicity : EC50 Algae Pseudokirchneriella subcapitata > 89 mg/L 72h  a) Aquatic acute toxicity : EC10 microorganisms > 100 mg/L 3h OECD 209

### 12.2. Persistence and degradability

Component	Persistence/Degradability:
Trimethoxyvinilsilane	Readily biodegradable

### 12.3. Bioaccumulative potential

N.A.

### 12.4. Mobility in soil

N.A.

### 12.5. Results of PBT and vPvB assessment

No PBT or vPvB substances present in concentration  $\geq 0.1\%$

### 12.6. Endocrine disrupting properties

No endocrine disruptor substances present in concentration  $\geq 0.1\%$

### 12.7. Other adverse effects

N.A.

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## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Recover if possible. In so doing, comply with the local and national regulations currently in force. Disposal through discharge into wastewater is not permitted

The product disposed of as such, pursuant to Regulation (EU) 1357/2014, must be classified as non-hazardous waste

A waste code according to the European List of Wastes (LoW) cannot be specified, due to dependence on the usage. Contact an authorized waste disposal service.

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## SECTION 14: Transport information

Not classified as dangerous in the meaning of transport regulations.

### 14.1. UN number or ID number

N/A

### 14.2. UN proper shipping name

ADR-Shipping Name: N/A

IATA-Technical name: N/A

IMDG-Technical name: N/A

#### **14.3. Transport hazard class(es)**

ADR-Class: N/A

IATA-Class: N/A

IMDG-Class: N/A

#### **14.4. Packing group**

ADR-Packing Group: N/A

IATA-Packing group: N/A

IMDG-Packing group: N/A

#### **14.5. Environmental hazards**

Marine pollutant: No

Environmental Pollutant: No

IMDG-EMS: N/A

#### **14.6. Special precautions for user**

Road and Rail (ADR-RID):

ADR-Label: N/A

ADR - Hazard identification number: N/A

ADR-Special Provisions: N/A

ADR-Transport category (Tunnel restriction code): N/A

ADR Limited Quantities: N/A

ADR Excepted Quantities: N/A

Air (IATA):

IATA-Passenger Aircraft: N/A

IATA-Cargo Aircraft: N/A

IATA-Label: N/A

IATA-Subsidiary hazards: N/A

IATA-Erg: N/A

IATA-Special Provisions: N/A

Sea (IMDG):

IMDG-Stowage Code: N/A

IMDG-Stowage Note: N/A

IMDG-Subsidiary hazards: N/A

IMDG-Special Provisions: N/A

#### **14.7. Maritime transport in bulk according to IMO instruments**

N.A.

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### **SECTION 15: Regulatory information**

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

Dir. 98/24/EC (Risks related to chemical agents at work)

Dir. 2000/39/EC (Occupational exposure limit values)

Regulation (EC) n. 1907/2006 (REACH)

Regulation (EC) n. 1272/2008 (CLP)

Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013

Regulation (EU) n. 286/2011 (ATP 2 CLP)

Regulation (EU) n. 618/2012 (ATP 3 CLP)

Regulation (EU) n. 487/2013 (ATP 4 CLP)

Regulation (EU) n. 944/2013 (ATP 5 CLP)

Regulation (EU) n. 605/2014 (ATP 6 CLP)

Regulation (EU) n. 2015/1221 (ATP 7 CLP)

Regulation (EU) n. 2016/918 (ATP 8 CLP)

Regulation (EU) n. 2016/1179 (ATP 9 CLP)

Regulation (EU) n. 2017/776 (ATP 10 CLP)

Regulation (EU) n. 2018/669 (ATP 11 CLP)

Regulation (EU) n. 2018/1480 (ATP 13 CLP)

Regulation (EU) n. 2019/521 (ATP 12 CLP)

Regulation (EU) n. 2020/217 (ATP 14 CLP)

Regulation (EU) n. 2020/1182 (ATP 15 CLP)

Regulation (EU) n. 2021/643 (ATP 16 CLP)

Regulation (EU) n. 2021/849 (ATP 17 CLP)

Regulation (EU) n. 2022/692 (ATP 18 CLP)

Regulation (EU) n. 2020/878

Regulation (EC) nr 648/2004 (Detergents).

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product: 3

Restrictions related to the substances contained: 40, 69, 75

Provisions related to directive EU 2012/18 (Seveso III):

None

Explosives precursors – Regulation 2019/1148

No substances listed

### **Regulation (EU) No 649/2012 (PIC regulation)**

No substances listed

German Water Hazard Class.

3: Severe hazard to waters

SVHC Substances:

No SVHC substances present in concentration  $\geq$  0.1%

### **15.2. Chemical safety assessment**

No Chemical Safety Assessment has been carried out for the mixture.

#### **Substances for which a Chemical Safety Assessment has been carried out:**

Trimethoxyvinilsilane

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## **SECTION 16: Other information**

<b>Code</b>	<b>Description</b>
H225	Highly flammable liquid and vapour.
H317	May cause an allergic skin reaction.
H332	Harmful if inhaled.
H372	Causes damage to organs through prolonged or repeated exposure.

<b>Code</b>	<b>Hazard class and hazard category</b>	<b>Description</b>
2.6/2	Flam. Liq. 2	Flammable liquid, Category 2
3.1/4/Inhal	Acute Tox. 4	Acute toxicity (inhalation), Category 4
3.4.2/1B	Skin Sens. 1B	Skin Sensitisation, Category 1B
3.9/1	STOT RE 1	Specific target organ toxicity — repeated exposure, Category 1

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

Legend to abbreviations and acronyms used in the safety data sheet:

ACGIH: American Conference of Governmental Industrial Hygienists

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

AND: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

ATE: Acute Toxicity Estimate

ATEmix: Acute toxicity Estimate (Mixtures)

BCF: Biological Concentration Factor

BEI: Biological Exposure Index

BOD: Biochemical Oxygen Demand

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

CAV: Poison Center

CE: European Community

CLP: Classification, Labeling, Packaging.

CMR: Carcinogenic, Mutagenic and Reprotoxic

COD: Chemical Oxygen Demand

COV: Volatile Organic Compound  
CSA: Chemical Safety Assessment  
CSR: Chemical Safety Report  
DMEL: Derived Minimal Effect Level  
DNEL: Derived No Effect Level.  
DPD: Dangerous Preparations Directive  
DSD: Dangerous Substances Directive  
EC50: Half Maximal Effective Concentration  
ECHA: European Chemicals Agency  
EINECS: European Inventory of Existing Commercial Chemical Substances.  
ES: Exposure Scenario  
GefStoffVO: Ordinance on Hazardous Substances, Germany.  
GHS: Globally Harmonized System of Classification and Labeling of Chemicals.  
IARC: International Agency for Research on Cancer  
IATA: International Air Transport Association.  
IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).  
IC50: half maximal inhibitory concentration  
ICAO: International Civil Aviation Organization.  
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).  
IMDG: International Maritime Code for Dangerous Goods.  
INCI: International Nomenclature of Cosmetic Ingredients.  
IRCCS: Scientific Institute for Research, Hospitalization and Health Care  
KAFH: Keep Away From Heat  
KSt: Explosion coefficient.  
LC50: Lethal concentration, for 50 percent of test population.  
LD50: Lethal dose, for 50 percent of test population.  
LDLo: Leathal Dose Low  
N.A.: Not Applicable  
N/A: Not Applicable  
N/D: Not defined/ Not available  
NA: Not available  
NIOSH: National Institute for Occupational Safety and Health  
NOAEL: No Observed Adverse Effect Level  
OSHA: Occupational Safety and Health Administration  
PBT: Persistent, Bioaccumulative and Toxic  
PGK: Packaging Instruction  
PNEC: Predicted No Effect Concentration.  
PSG: Passengers  
RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.  
STEL: Short Term Exposure limit.  
STOT: Specific Target Organ Toxicity.  
TLV: Threshold Limiting Value.  
TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).  
vPvB: Very Persistent, Very Bioaccumulative.  
WGK: German Water Hazard Class.

**Paragraphs modified from the previous revision:**

- SECTION 1: Identification of the substance/mixture and of the company/undertaking
- SECTION 2: Hazards identification
- SECTION 3: Composition/information on ingredients
- SECTION 7: Handling and storage
- SECTION 8: Exposure controls/personal protection
- SECTION 9: Physical and chemical properties
- SECTION 11: Toxicological information
- SECTION 12: Ecological information
- SECTION 13: Disposal considerations
- SECTION 14: Transport information
- SECTION 15: Regulatory information
- SECTION 16: Other information



# Exposure Scenario

## Trimethoxyvinilsilane

### Exposure Scenario, 08/06/2021

Substance identity	
	Trimethoxyvinilsilane
<b>CAS No.</b>	2768-02-7
<b>INDEX No.</b>	014-049-00-0
<b>EINECS No.</b>	220-449-8
<b>Registration number</b>	01-2119513215-52

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1. ES 1

# 1. ES 1

## 1.1 TITLE SECTION

Exposure Scenario name	Use in rigid foams, coatings, adhesives and sealants - Barrier (Sealant)
Date - Version	18/05/2021 - 1.0
Main user group	Professional uses
Sector(s) of use	Professional uses (SU22) - Building and construction work (SU19)
Product Categories	Adhesives, sealants (PC1)

### Environment Contributing Scenario

CS1 Low environmental release	ERC8c - ERC8f
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### Worker Contributing Scenario

CS2 Wiping - Hand application - finger paints, pastels, adhesives - Preparation of material for application	PROC0
CS3 Wiping - Hand application - finger paints, pastels, adhesives - Preparation of material for application	PROC1

## 1.2 Conditions of use affecting exposure

### 1.2.1. CS1: Environment Contributing Scenario: Low environmental release (ERC8c, ERC8f)

Environmental release categories	Widespread use leading to inclusion into/onto article (indoor) - Widespread use leading to inclusion into/onto article (outdoor) (ERC8c, ERC8f)
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#### *Product (article) characteristics*

##### Physical form of product:

Liquid

##### Concentration of substance in product:

Concentration after dilution for use maximum [%]: 0.7 %

#### *Amount used, frequency and duration of use (or from service life)*

##### Amounts used:

Daily amount per site = 0.28 kg/day

**Release type:** Continuous release

**Emission days:** 365 days per year

#### *Technical and organisational conditions and measures*

##### Control measures to prevent releases

	Water - minimum efficiency of: 1.5 %
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#### *Conditions and measures related to sewage treatment plant*

##### STP type:

Onsite Sewage Treatment Plant

Water - minimum efficiency of: = 0.013 %

#### *Conditions and measures related to treatment of waste (including article waste)*

##### Waste treatment

Dispose of waste product or used containers according to local regulations.

#### *Other conditions affecting environmental exposure*

**Local marine water dilution factor:** 100

**Local freshwater dilution factor:** 10

**Receiving surface water flow:** 20000 m<sup>3</sup>/day

Covers indoor and outdoor use

## 1.2. CS2: Worker Contributing Scenario: Wiping - Hand application - finger paints, pastels, adhesives - Preparation of material for application (PROCO)

**Process Categories** Other (PROCO)

### *Product (article) characteristics*

**Physical form of product:**

Liquid

**Concentration of substance in product:**

Covers concentrations up to 0.7 %

### *Amount used, frequency and duration of use/exposure*

**Duration:**

Exposure duration <= 6 h

**Frequency:**

Use frequency = 250 days per year

### *Technical and organisational conditions and measures*

**Technical and organisational measures**

Natural ventilation is from doors, windows etc. Controlled ventilation means air is supplied or removed by a powered fan. Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour). For further specification, refer to section 8 of the SDS.

### *Other conditions affecting worker exposure*

Covers indoor and outdoor use

Professional use

**Room size:** Covers use in room size of = 20 m<sup>3</sup>

**Temperature:** Covers use at ambient temperatures. 25°C

## 1.2. CS3: Worker Contributing Scenario: Wiping - Hand application - finger paints, pastels, adhesives - Preparation of material for application (PROCO)

**Process Categories** Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROCO)

### *Product (article) characteristics*

**Physical form of product:**

Liquid

**Concentration of substance in product:**

Covers concentrations up to 2 %

### *Amount used, frequency and duration of use/exposure*

**Duration:**

Exposure duration = 8 h

**Frequency:**

Use frequency = 1 days per year

**Duration:**

Covers use up to = 6 h

**Frequency:**

Use frequency = 1 days per year

### *Other conditions affecting worker exposure*

Covers indoor and outdoor use

Professional use

**Room size:** Covers use in room size of = 20 m<sup>3</sup>

**Ventilation rate:** = 0.6 ach (air changes per hour)

## 1.3 Exposure estimation and reference to its source

### 1.3. CS2: Worker Contributing Scenario: Wiping - Hand application - finger paints, pastels, adhesives - Preparation of material for application (PROCO)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
inhalative, long-term	= 1.9 mg/m <sup>3</sup>	N/A	= 0.069
dermal, long-term	= 4.53 mg/kg bw/day	ConsExpo	= 0.038
combined routes, long-term	N/A	N/A	0.107

### 1.3. CS3: Worker Contributing Scenario: Wiping - Hand application - finger paints, pastels, adhesives - Preparation of material for application (PROC1)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
inhalative, long-term	= 4.57 mg/m <sup>3</sup>	N/A	= 0.682
dermal, long-term	= 0.044 mg/kg bw/day	ConsExpo	< 0.01
combined routes, short-term	N/A	N/A	0.682

## 1.4 Guidance to DU to evaluate whether he works inside the boundaries set by the ES

### Guidance to check compliance with the exposure scenario:

Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.