

TECHNOBOND ULTRA TACK

Creation date	10th June 2022	Version	1.0
Revision date			

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

- 1.1. Product identifier** TECHNOBOND ULTRA TACK
Substance / mixture mixture
Number 1 34461
- 1.2. Relevant identified uses of the substance or mixture and uses advised against**
Mixture's intended use
Barrier (Sealant). For professional use only.
Mixture uses advised against
not available
- 1.3. Details of the supplier of the safety data sheet**
Supplier
Name or trade name RETECH, s.r.o.
Address Vackova 1541/4, Praha 5 - Stodůlky, 155 00
Czech Republic
Identification number (CRN) 25018205
VAT Reg No CZ25018205
Phone +420327596428
E-mail info@retech.cz
Web address www.retech.com
- Competent person responsible for the safety data sheet**
Name RETECH, s.r.o.
E-mail info@retech.cz
- 1.4. Emergency telephone number**
European emergency number: 112

SECTION 2: Hazards identification

- 2.1. Classification of the substance or mixture**
Classification of the mixture in accordance with Regulation (EC) No 1272/2008
The mixture is not classified as dangerous according to Regulation (EC) No 1272/2008.
Full text of all classifications and hazard statements is given in the section 16.
- 2.2. Label elements**
Supplemental information
EUH210 Safety data sheet available on request.
EUH208 Contains Trimethoxyvinylsilane. May produce an allergic reaction.
- 2.3. Other hazards**
Small amounts of methanol are formed by hydrolysis. Harmful for aquatic organisms. Mixture does not contain any substance meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended.

SECTION 3: Composition/information on ingredients

- 3.2. Mixtures**
Chemical characterization
Mixture of substances and additives specified below.
Mixture contains these hazardous substances and substances with the highest permissible concentration in the working environment

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
CAS: 2768-02-7 EC: 220-449-8 Registration number: 01-2119513215-52	Trimethoxyvinylsilane	1-<5	Flam. Liq. 3, H226 Skin Sens. 1B, H317 Acute Tox. 4, H332	

TECHNOBOND ULTRA TACKCreation date 10th June 2022
Revision date Version 1.0

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
CAS: 13463-67-7 EC: 236-675-5 Registration number: 01-2119489379-17	titanium dioxide	0,1-<1,0	Carc. 2, H351 (inhalation)	1, 2, 3

Notes

- Note V: If the substance is to be placed on the market as fibres (with diameter < 3 µm, length > 5 µm and aspect ratio ≥ 3:1) or particles of the substance fulfilling the WHO fibre criteria or as particles with modified surface chemistry, their hazardous properties must be evaluated in accordance with Title II of this Regulation, to assess whether a higher category (Carc. 1B or 1A) and/or additional routes of exposure (oral or dermal) should be applied.
- Note W: It has been observed that the carcinogenic hazard of this substance arises when respirable dust is inhaled in quantities leading to significant impairment of particle clearance mechanisms in the lung.

This note aims to describe the particular toxicity of the substance; it does not constitute a criterion for classification according to this Regulation.

- Note 10: The classification as a carcinogen by inhalation applies only to mixtures in powder form containing 1 % or more of titanium dioxide which is in the form of or incorporated in particles with aerodynamic diameter ≤ 10 µm.

Full text of all classifications and hazard statements is given in the section 16.

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

If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet.

If inhaled

Terminate the exposure immediately; move the affected person to fresh air. In the event of issues, find medical advice.

If on skin

Wash with plenty of soap and water. Provide medical treatment if skin irritation persists.

If in eyes

Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person. Continue rinsing. Rinsing should continue at least for 15 minutes. In the event of issues, find medical advice.

If swallowed

Provide medical treatment. Rinse out the mouth with clean water. Do not provide anything by mouth if the person is unconscious or if having cramps. Small amounts of methanol are formed by hydrolysis.

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

not available

If on skin

May cause sensitisation or allergic reactions in sensitive individuals.

If in eyes

not available

If swallowed

not available

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

Symptomatic treatment.

More information

Small amounts of methanol are formed by hydrolysis.

TECHNOBOND ULTRA TACK

Creation date 10th June 2022
Revision date Version 1.0

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Alcohol-resistant foam, carbon dioxide, powder, water spray jet, water mist.

Unsuitable extinguishing media

Water - full jet.

5.2. Special hazards arising from the substance or mixture

In the event of fire, carbon monoxide, carbon dioxide and other toxic gases may arise. NOx, SiO2.

5.3. Advice for firefighters

Use a self-contained breathing apparatus and full-body protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment as per Section 8. Provide sufficient ventilation. Do not get in eyes, on skin, or on clothing. Stop leak if safe to do so.

6.2. Environmental precautions

Prevent contamination of the soil. Do not allow to enter drains.

6.3. Methods and material for containment and cleaning up

Place the product mechanically in an appropriate manner. Dispose of the collected material according to the instructions in the section 13. After removal of the product, wash the contaminated site with plenty of water.

6.4. Reference to other sections

See the Section 7, 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Provide sufficient ventilation. Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection. Do not eat, drink or smoke when using this product. Wash hands and exposed parts of the body thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

Protect from moisture. Do not store together with food, drink and animal feed.

7.3. Specific end use(s)

See the technical data sheet.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

The mixture contains no substances for which occupational exposure limits are set.

DNEL

titanium dioxide

Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Consumers	Oral	700 mg/kg bw/day	Systemic chronic effects		
Workers	Inhalation	10 mg/m ³	Systemic chronic effects		

TECHNOBOND ULTRA TACK

Creation date

10th June 2022

Revision date

Version

1.0

Trimethoxyvinylsilane

Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	27.6 mg/m ³	Systemic chronic effects		
Workers	Dermal	3.9 mg/kg bw/day	Systemic chronic effects		
Consumers	Inhalation	18.9 mg/m ³	Systemic chronic effects		
Consumers	Dermal	7.8 mg/kg bw/day	Systemic chronic effects		
Consumers	Oral	0.3 mg/kg bw/day	Systemic chronic effects		

PNEC

titanium dioxide

Route of exposure	Value	Value determination	Source
Seawater	0.0184 mg/l		
Freshwater sediment	1000 mg/kg		
Freshwater environment	0.184 mg/l		
Sea sediments	100 mg/kg		
Soil (agricultural)	100 mg/kg		
Microorganisms in wastewater treatment plants	100 mg/l		
Water (intermittent release)	0.193 mg/l		

Trimethoxyvinylsilane

Route of exposure	Value	Value determination	Source
Freshwater environment	0.34 mg/l		
Seawater	0.034 mg/l		
Microorganisms in wastewater treatment plants	110 mg/l		

8.2. Exposure controls

Follow the usual measures intended for health protection at work and especially for good ventilation. This can be achieved only by local suction or efficient general ventilation.

Eye/face protection

Tightly sealed goggles. EN166 - Personal Eye Protection Standard.

Skin protection

Hand protection: Protective gloves resistant to the product. EN ISO 374-1. Material of gloves: Butyl rubber. Neoprene. Nitrile rubber. Recommended thickness of the material: >0.7 mm. Penetration time of glove material: > 480 min. When choosing appropriate thickness, material and permeability of the gloves, observe recommendations of their particular manufacturer. Observe other recommendations of the manufacturer. Other protection: Under regular circumstances it is not necessary.

Respiratory protection

Provide sufficient ventilation. In case of inadequate ventilation wear respiratory protection. Mask with a filter against organic vapours in a poorly ventilated environment. Filter A/P2.

Thermal hazard

Not available.

Environmental exposure controls

Observe usual measures for protection of the environment, see Section 6.2.

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

Physical state

solid

TECHNOBOND ULTRA TACK

Creation date	10th June 2022	Version	1.0
Revision date			

Colour	white
Odour	data not available
Melting point/freezing point	data not available
Boiling point or initial boiling point and boiling range	data not available
Flammability	data not available
Lower and upper explosion limit	data not available
Flash point	>60 °C
Auto-ignition temperature	data not available
Decomposition temperature	data not available
pH	data not available
Kinematic viscosity	>21 mm ² /s at 40 °C
Solubility in water	insoluble
Solubility in fats	data not available
Partition coefficient n-octanol/water (log value)	data not available
Vapour pressure	data not available
Density and/or relative density	
Density	1,56 g/cm ³
Form	solid, paste
data not available	

9.2. Other information

Evaporation rate	data not available
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SECTION 10: Stability and reactivity

10.1. Reactivity

Moisture.

10.2. Chemical stability

The product is stable under normal conditions.

10.3. Possibility of hazardous reactions

Unknown.

10.4. Conditions to avoid

Moisture. Protect against flames, sparks, overheating and against frost.

10.5. Incompatible materials

Unknown.

10.6. Hazardous decomposition products

Contact with moisture during curing process may produce methanol.

SECTION 11: Toxicological information

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

No toxicological data is available for the mixture.

Acute toxicity

Based on available data the classification criteria are not met.

TECHNOBOND ULTRA TACK

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex
Dermal	ATE		7419 mg/kg			
Inhalation (vapor)	ATE		325.3 mg/l			

titanium dioxide

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex
Oral	LD ₅₀		>10000 mg/kg		Rat	
Dermal	LD ₅₀		>10000 mg/kg			
Inhalation	LC ₅₀		>5 mg/l			

TECHNOBOND ULTRA TACK

Creation date

10th June 2022

Revision date

Version

1.0

Trimethoxyvinylsilane

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex
Oral	LD ₅₀	OECD 401	7120-7236 mg/kg		Rat	
Dermal	LD ₅₀		3540 mg/kg		Rabbit	
Inhalation	LC ₅₀	OECD 403	16.8 mg/l	4 hour	Rat	

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. May cause sensitisation or allergic reactions in sensitive individuals.

TECHNOBOND ULTRA TACK

Route of exposure	Result	Method	Exposure time	Species	Sex
Dermal	Not sensitizing	OECD 406		Hamster	

Germ cell mutagenicity

Based on available data the classification criteria are not met.

Carcinogenicity

Based on available data the classification criteria are not met.

titanium dioxide

Route of exposure	Parameter	Value	Result	Species	Sex
			Carcinogenic		

Reproductive toxicity

Based on available data the classification criteria are not met.

Toxicity for specific target organ - single exposure

Based on available data the classification criteria are not met.

Toxicity for specific target organ - repeated exposure

Based on available data the classification criteria are not met.

Aspiration hazard

Based on available data the classification criteria are not met.

11.2. Information on other hazards

not available

SECTION 12: Ecological information
12.1. Toxicity
Acute toxicity

titanium dioxide

Parameter	Method	Value	Exposure time	Species	Environment
LC ₅₀	OECD 203	>10000 mg/l	96 hour	Algae (Cyprinodon variegatus)	

Trimethoxyvinylsilane

Parameter	Method	Value	Exposure time	Species	Environment
EC ₅₀	EU C.3 (92/69/EEC)	957 mg/l	72 day	Algae (Desmodesmus subspicatus)	
LC ₅₀		191 mg/l	96 day	Fishes (Oncorhynchus mykiss)	
EC ₅₀		168.7 mg/l	48 day	Daphnia (Daphnia magna)	

TECHNOBOND ULTRA TACK

Creation date	10th June 2022	Version	1.0
Revision date			

12.2. Persistence and degradability

Biodegradability

Trimethoxyvinylsilane

Parameter	Method	Value	Exposure time	Environment	Result
	OECD 301F	51 %	28 day		Hardly biodegradable

not available

12.3. Bioaccumulative potential

Trimethoxyvinylsilane

Parameter	Value	Exposure time	Species	Environment	Temperature [°C]
Log Pow	1.1				

Not available.

12.4. Mobility in soil

Not available.

12.5. Results of PBT and vPvB assessment

Product does not contain any substance meeting the criteria for PBT or vPvB in accordance with the Annex XIII of Regulation (EC) No 1907/2006 (REACH) as amended.

12.6. Endocrine disrupting properties

Not available.

12.7. Other adverse effects

Water hazard class 1 (german Regulation, self-assessment): slightly hazardous for water.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Proceed in accordance with valid regulations on waste disposal. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. Uncured material must be disposed of as hazardous waste. The product must not be disposed of with municipal waste.

Waste management legislation

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste, as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

Waste type code

08 04 10 waste adhesives and sealants other than those mentioned in 08 04 09

SECTION 14: Transport information

14.1. UN number or ID number

not subject to transport regulations

14.2. UN proper shipping name

not relevant

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

Reference in the Sections 4 to 8.

14.7. Maritime transport in bulk according to IMO instruments

not relevant

TECHNOBOND ULTRA TACK

Creation date	10th June 2022	Version	1.0
Revision date			

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. Regulation (EC) No. 1272/2008 of the European Parliament and of the Council of 16th December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No. 1907/2006, as amended.

15.2. Chemical safety assessment

not available

SECTION 16: Other information**A list of standard risk phrases used in the safety data sheet**

H226	Flammable liquid and vapour.
H317	May cause an allergic skin reaction.
H332	Harmful if inhaled.
H351	Suspected of causing cancer if inhaled.

A list of additional standard phrases used in the safety data sheet

EUH210	Safety data sheet available on request.
EUH208	Contains Trimethoxyvinylsilane. May produce an allergic reaction.

Other important information about human health protection

The product must not be - unless specifically approved by the manufacturer/importer - used for purposes other than as per the Section 1. The user is responsible for adherence to all related health protection regulations.

Key to abbreviations and acronyms used in the safety data sheet

ADR	European agreement concerning the international carriage of dangerous goods by road
BCF	Bioconcentration Factor
CAS	Chemical Abstracts Service
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures
DNEL	Derived no-effect level
EC ₅₀	Concentration of a substance when it is affected 50% of the population
EINECS	European Inventory of Existing Commercial Chemical Substances
EmS	Emergency plan
ES	Identification code for each substance listed in EINECS
EU	European Union
EuPCS	European Product Categorisation System
IATA	International Air Transport Association
IBC	International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
INCI	International Nomenclature of Cosmetic Ingredients
ISO	International Organization for Standardization
IUPAC	International Union of Pure and Applied Chemistry
LC ₅₀	Lethal concentration of a substance in which it can be expected death of 50% of the population
LD ₅₀	Lethal dose of a substance in which it can be expected death of 50% of the population
log K _{ow}	Octanol-water partition coefficient
MARPOL	International Convention for the Prevention of Pollution from Ships
OEL	Occupational Exposure Limits
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted no-effect concentration

TECHNOBOND ULTRA TACK

Creation date	10th June 2022	Version	1.0
Revision date			

ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Agreement on the transport of dangerous goods by rail
UN	Four-figure identification number of the substance or article taken from the UN Model Regulations
UVCB	Substances of unknown or variable composition, complex reaction products or biological materials
VOC	Volatile organic compounds
vPvB	Very Persistent and very Bioaccumulative
Acute Tox.	Acute toxicity
Carc.	Carcinogenicity
Flam. Liq.	Flammable liquid
Skin Sens.	Skin sensitization

Training guidelines

Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the product.

Recommended restrictions of use

not available

Information about data sources used to compile the Safety Data Sheet

REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended.
REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

Statement

The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.