

Date of issue: 03/01/2017	Trade name:	Page: 1/6
Reviewed on:	TECHNOBOND TRANSPARENT	Version: 1.0

1. Section 1. Identification of the substance/mixture and of the company/undertaking:

- 1.1. Product identifier:
Trade name: **TECHNOBOND TRANSPARENT**
Product code: **1 34456**
- 1.2. Relevant identified uses of the substance or mixture and uses advised against:
Uses of the mixture: Sealing and bonding putty.
For professional and industrial use only.
Uses advised against: Not known.
- 1.3. Details of the supplier of the safety data sheet:
Identification of manufacturer/Supplier:
RETECH, s.r.o.
Vackova 1541/4
150 00 Praha 5 - Stodůlky
Telephone number/Fax: +420 327 596 128, +420 327 596 428
E-mail: info@retech.cz
- 1.4. Emergency telephone number: RETECH, Suchdol 212, 285 02 Suchdol u Kutné Hory, Czech Republic
Telephone number: +420 327 596 128 (7.30-16.00 hour)
Toxicologické informační středisko (Toxicology information centre),
Na bojišti 1, 128 08 PRAHA 2, Czech Republic
Telephone number: +420 224 919 293, +420 224 915 402 (24 hours a day)

2. Section 2. Hazard identification:

- 2.1. Classification of the substance or mixture:
Classification according to Regulation (EC) No 1272/2008 [CLP]:
This product does not meet the criteria for classification in any hazard class according to Regulation (EC) No 1272/2008.
- 2.2. Label elements:
Labelling according to Regulation (EC) No 1272/2008 [CLP]:
Signal Word: void.
Hazard Statements: void.
Precautionary Statements: void.

Supplemental Hazard information (EU):
EUH210 Safety data sheet available on request.
- 2.3. Other hazards:
Results of PBT and vPvB assessment:
Not applicable.

3. Section 3. Composition/information on ingredients:

- 3.2. Mixtures:
Description of the mixture: Mixture of active ingredients

Hazardous ingredients:

CAS: 2768-02-7	Trimethoxyvinylsilane	1 -< 20 %
EINECS: 220-449-8	Flam. Liq. 3, H226; Acute Tox. 4, H332	
CAS: 22673-19-4	Dibutylbis(pentane-2,4-dionato-O,O')tin	0.1 -< 1 %
EINECS: 245-152-0	Eye Irrit. 2, H319; Skin Irrit. 2, H315; STOT RE 2, H373; Aquatic Chronic 2, H411	

For full text of H-statements: see SECTION 16

Date of issue: 03/01/2017	Trade name:	Page: 2/6
Reviewed on:	TECHNOBOND TRANSPARENT	Version: 1.0

<p>4. Section 4. First aid measures:</p> <p>4.1. Description of first aid measures:</p> <p>General notes: When in doubt or if symptoms are observed, get medical advice.</p> <p>After inhalation: Move affected person to fresh air. Get medical attention if any discomfort continues.</p> <p>After skin contact: Wash with plenty of water. Get medical attention if any discomfort continues.</p> <p>After eye contact: Rinse opened eye for several minutes under running water. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if any discomfort continues.</p> <p>After swallowing: Rinse mouth with plenty of water. Get medical attention if any discomfort continues.</p> <p>4.2. Most important symptoms and effects, both acute and delayed: No further relevant information available.</p> <p>4.3. Indication of any immediate medical attention and special treatment needed: No further relevant information available.</p>		
<p>5. Section 5. Fire fighting measures:</p> <p>5.1. Extinguishing media:</p> <p>Suitable extinguishing agents: Water haze, carbon dioxide, ABC powder, polyvalent foam.</p> <p>Unsuitable extinguishing agents: No unsuitable extinguishing media known.</p> <p>5.2. Special hazards arising from the substance or mixture: In case of fire, the following can be released: carbon monoxide, carbon dioxide, hydrogen chloride.</p> <p>5.3. Advice for firefighters: Wear protective clothing and self-contained breathing apparatus. Dilute toxic gases with water spray.</p>		
<p>6. Section 6. Accidental release measures:</p> <p>6.1. Personal precautions, protective equipment and emergency procedures: Wear protective equipment, see Section 8.</p> <p>6.2. Environmental precautions: Use appropriate containment to avoid environmental contamination.</p> <p>6.3. Methods and material for containment and cleaning up: Scoop solid spill into closing containers. Clean contaminated surfaces with a soap solution. Wash clothing and equipment after handling. Dispose contaminated material as waste according to Section 13.</p> <p>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 disposal information.</p>		
<p>7. Section 7. Handling and storage:</p> <p>7.1. Precautions for safe handling:</p> <p>Protective measures: Wear protective equipment, see Section 8. The usual precautionary measures should be adhered to general rules for handling chemicals.</p> <p>Measures to prevent fire: Keep away from heat, open flame.</p> <p>7.2. Conditions for safe storage, including any incompatibilities:</p> <p>Requirements for storage rooms and vessels: Store in a dry place.</p> <p>Technical measures and storage conditions: Store at room temperature.</p> <p>Further information on storage conditions: Keep away from: water/moisture. Suitable packaging material: synthetic material.</p> <p>7.3. Specific end use(s): No further relevant information available.</p>		

Date of issue: 03/01/2017	Trade name:	Page: 3/6
Reviewed on:	TECHNOBOND TRANSPARENT	Version: 1.0

8. Section 8. Exposure controls/personal protection:

8.1. Control parameters:

Components with limit values that require monitoring at the workplace:

WEL (United Kingdom):

Substance	Long-term (8-hr TWA ref. period)		Short-term (15 minute ref. period)		Comments
	ppm	mg/m ³	ppm	mg/m ³	
Tin compounds, organic, except cyhexatin(ISO) (as Sn)	-	0.1	-	0.2	

OEL (EU): 2000/39/EG, 2006/15/EG, 2009/161/EG

Contains no substances with occupational exposure limit values.

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

8.2. Exposure controls:

Technical measures to prevent exposure:

No further relevant information available.

General protective measures: The usual precautionary measures should be adhered to general rules for handling chemicals.

Wash hands before breaks and at the end of work.

Personal protection equipment:

Respiratory protection: Respiratory protection usually not required in normal conditions.

Eye protection: Safety glasses.

Hand protection: Gloves.

Skin protection: Protective clothing.

9. Section 9. Physical and chemical properties:

9.1. Information on basic physical and chemical properties:

Form:	Paste.
Colour:	Colourless, clear.
Odour:	Characteristic.
Odour threshold:	Not determined.
Value pH at 20 °C:	Not determined.
Melting point/freezing point:	Not determined.
Initial boiling point/boiling range:	Not determined.
Flash point:	> 240 °C
Evaporation rate:	Not determined.
Flammability (solid, gas):	Not determined.
Explosive properties:	Not determined.
Explosive limits:	
- lower:	Not determined.
- upper:	Not determined.
Vapour pressure at 20°C:	Not determined.
Vapour density at 20 °C:	Not determined.
Density at 20°C:	Not determined.
Relative density:	1.1
Solubility in/miscibility:	Not determined.
Partition coefficient (n-octanol/water):	Not determined.
Ignition temperature:	Not determined.
Decomposition temperature:	Not determined.
Self-ignition temperature:	Not determined.
Viscosity:	Not determined.
Oxidising properties:	Not determined.

9.2. Other information: No further relevant information available.

Date of issue: 03/01/2017	Trade name:	Page: 4/6
Reviewed on:	TECHNOBOND TRANSPARENT	Version: 1.0

10. Section 10. Stability and reactivity:

- 10.1. Reactivity: Stable under normal conditions.
 10.2. Chemical stability: No further relevant information available.
 10.3. Possibility of hazardous reactions:
 No further relevant information available.
 10.4. Conditions to avoid: Heat.
 10.5. Incompatible materials: Water/moisture.
 10.6. Hazardous decomposition products:
 In case of fire, the following can be released: carbon monoxide, carbon dioxide, hydrogen chloride.

11. Section 11. Toxicological information:

11.1. Information on toxicological effects:

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

Relevant hazards for substance:

2768-02-7 Trimethoxyvinylsilane

Dermal	LD50	6767 mg/kg
Inhalative	LC50/4h	16 mg/l

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 sensitization: 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.

Specific target organ toxicity - single exposure: Based on available data, the classification criteria are not met.

Specific target organ toxicity - repeated exposure: Based on available data, the classification criteria are not met.

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

Other information: Eye contact: Redness of the eye tissue.
 Ingestion: after absorption of high quantities - gastrointestinal complaints.

12. Section 12. Ecological information:

12.1. Toxicity:

Aquatic toxicity:

2768-02-7 Trimethoxyvinylsilane

Fish:	LC50/96 h	Brachydanio rerio	≥ 100 mg/l
Invertebrates:	EC50/48 h	Daphnia magna	168.7 mg/l
Algae:	EC50/72 h	Scenedesmus subspicatus	> 957 mg/l

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.

Additional ecological information:

Ecotoxic effects:

General notes: Water danger class 1 (German Regulation, self-assessment):
 slightly hazardous for water
 Do not allow to enter water courses, ground water or drains in undiluted and/or large quantities.

12.5. Results of PBT and vPvB assessment:

PBT: Not applicable.

VPvB: Not applicable.

12.6. Other adverse effects: No further relevant information available.

Date of issue: 03/01/2017	Trade name:	Page: 5/6
Reviewed on:	TECHNOBOND TRANSPARENT	Version: 1.0

13. Section 13. Disposal considerations:

13.1. Waste treatment methods:

Product disposal:	Dissolve or mix with a combustible solvent. Smaller quantities can be disposed of with household waste. Do not discharge into drains or the environment. European Waste Catalogue: 08 04 10 waste adhesives and sealants other than those mentioned in 08 04 09
Packagings disposal:	Disposal must be made according to official regulations. European Waste Catalogue: 15 01 02 plastic packaging 15 01 04 metallic packaging
Other disposal recommendations:	Disposal must be made according to official regulations. The final decisions on the appropriate waste management method, in line with regional, national and European legislation, and possible adaptation to local conditions, remains the responsibility of the waste treatment operator.

14. Section 14. Transport information:

14.1. UN number:	ADR, ADN, IMDG, IATA	This product does not require a classification for transport.
14.2. UN proper shipping name:	ADR, ADN, IMDG, IATA	Not applicable.
14.3. Transport hazard class(es):	ADR, ADN, IMDG, IATA	
Class		Not applicable.
Hazard label		Not applicable.
14.4. Packing group:	ADR, ADN, IMDG, IATA	Not applicable.
14.5. Environmental hazards:		
Marine pollutant:		No.
14.6. Special precautions for user:		Not applicable.
14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code:		Not applicable

15. Section 15. Regulatory information:

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

Used legislation:

Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals, as amended (REACH)
Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures, as amended (CLP)
Regulation (EC) No 648/2004 of the European Parliament and of the Council on detergents, as amended
Commission Decision 2000/532/EC establishing a list of wastes, as amended
Council Directive 89/686/EEC on the approximation of the laws of the Member States relating to personal protective equipment, as amended
Council Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work, as amended
Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values
Commission Directive 2006/15/EC establishing a second list of indicative occupational exposure limit values
Commission Directive 2009/161/EU establishing a third list of indicative occupational exposure limit values
Directive 2004/42/CE of the European Parliament and of the Council on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 1999/13/EC, as amended

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

Date of issue: 03/01/2017	Trade name:	Page: 6/6
Reviewed on:	TECHNOBOND TRANSPARENT	Version: 1.0

16. Section 16. Other information:

Relevant H-statements (Section 3):

H226 Flammable liquid and vapour.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H373 May cause damage to organs <or state all organs affected, if known> through prolonged or repeated exposure <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.

H411 Toxic to aquatic life with long lasting effects.

Abbreviations and acronyms:

ADN: 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 (division of the American Chemical Society)

EC50: Median effective concentration to 50% of a population

EINECS: European Inventory of Existing Commercial Chemical Substances

IATA: International Air Transport Association

IMDG: International Maritime Code for Dangerous Goods

LC50: Median concentration lethal to 50 % of a test population

LD50: Median dose lethal to 50 % of a test population

OEL: Occupational Exposure Limit

PBT: Persistent, Bioaccumulative, Toxic

VOC: Volatile Organic Compounds

vPvB: Very Persistent, Very Bioaccumulative

WEL: Workplace exposure limits

Acute Tox. 4: Acute toxicity, category 4

Aquatic Chronic 2: Hazardous to the aquatic environment, category 2

Eye Irrit. 2: Serious eye irritation, category 2

Flam. Liq. 3: Flammable liquid, category 3

Skin Irrit. 2: Skin irritation, category 2

STOT RE 2: Specific target organ toxicity — repeated exposure, category 2

The information contained herein is based on our best knowledge and the present legislation. Further, the Safety Data Sheet has been elaborated on the basis of the original Safety Data Sheet provided by the manufacturer.

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.

***Compared to the last version the data has been changed.**