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Reviewed on:	TECHNOBOND	Version: 2.0

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

- 1.1. Product identifier:
Trade name: **TECHNOBOND**
Product code: **BLACK 1 34452, WHITE 1 34454/49, GREY 1 34453**
- 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)
Toxikologické 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 -< 3 %
EINECS: 220-449-8	Flam. Liq. 3, H226; Acute Tox. 4, H332	
CAS: 13822-56-5	3-(Trimethoxysilyl)propylamine	1 -< 3 %
EINECS: 237-511-5	Eye Dam. 1, H318; Skin Irrit. 2, H315	
Reg. No.: 01-2119510159-45		
CAS: 52829-07-9	Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate	< 1 %
EINECS: 258-207-9	Eye Dam. 1, H318; Aquatic Acute 1, H400; Aquatic Chronic 2, H411	
Reg. No.: 01-2119537297-32		

For full text of H-statements: see SECTION 16

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<p>4.* Section 4. First aid measures:</p> <p>4.1. Description of first aid measures:</p> <p>General notes: No special measures are necessary.</p> <p>After inhalation: Move affected person to fresh air and keep warm and at rest. If breathing is difficult, provide oxygen or give artificial respiration. Get medical attention if any discomfort continues.</p> <p>After skin contact: Wash immediately with plenty of water and soap and rinse thoroughly.</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: Do not induce vomiting. 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, fire-extinguishing powder. Fight larger fires with water spray or alcohol resistant foam. Use fire fighting measures that suit the environment.</p> <p>Unsuitable extinguishing agents: Water with full jet.</p> <p>5.2. Special hazards arising from the substance or mixture: No further relevant information available.</p> <p>5.3. Advice for firefighters: Wear protective clothing and self-contained breathing apparatus. Cool endangered receptacles 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: Do not allow to enter sewage system, surface or ground water.</p> <p>6.3. Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). 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: No special measures are necessary. Wear protective equipment, see Section 8. Ensure good ventilation/exhaustion at the workplace.</p> <p>Measures to prevent fire: No special measures required.</p> <p>7.2. Conditions for safe storage, including any incompatibilities:</p> <p>Requirements for storage rooms and vessels: No special measures are necessary.</p> <p>Technical measures and storage conditions: Store in a cool, dry place. Store at temperature +5 °C to +25 °C.</p> <p>Further information on storage conditions: No further relevant information available.</p> <p>7.3. Specific end use(s): No further relevant information available.</p>		

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8. Section 8. Exposure controls/personal protection:

8.1. Control parameters:

Components with limit values that require monitoring at the workplace:

WEL (United Kingdom): EH40/2005

Contains no substances with occupational exposure limit values.

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:

Ensure good ventilation/exhaustion at the workplace.

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 with adequate ventilation.

Eye protection: Goggles recommended during refilling.

Hand protection: Protective gloves.

Recommended material of gloves: PVC, PE

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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Recommended thickness of the material: ≥ 0.12 mm

Penetration time of glove material: ≥ 480 min.

The final selection of the glove material must be carried out on the basis of penetration times, permeation rates and degradation.

Skin protection:

Protective clothing.

9.* Section 9. Physical and chemical properties:

9.1. Information on basic physical and chemical properties:

Form: Paste.

Colour: Black/white/grey (according to product specification).

Odour: Mild.

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: > 100 °C (DIN 53213)

Evaporation rate: Not determined.

Flammability (solid, gas): Not determined.

Explosive properties: The product is not explosive.

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: 1.4 g/cm³ (DIN 51757)

Relative density: Not determined.

Solubility in/miscibility: Water: Not miscible or difficult to mix.

Partition coefficient (n-octanol/water): Not determined.

Ignition temperature: 235 °C

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Decomposition temperature:	Not determined.
Self-ignition temperature:	The product is not selfigniting.
Viscosity:	Not determined.
Oxidising properties:	Not determined.
9.2. Other information:	
Organic solvent:	0.0 %
VOC:	0.0 %
Solid content:	1.0 % (DIN 53216)

10. Section 10. Stability and reactivity:

10.1. Reactivity:	No further relevant information available.
10.2. Chemical stability:	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:	No further relevant information available.

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:

LD/LC50 values relevant for classification:

Inhalative	LC50/4 h		368 mg/ml
52829-07-9 Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate			
Oral	LD50/4 h	Rat	> 2000 mg/l
	LC50/96 h	BRACHDANIO RERIO	13 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.
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.
Other information:	No further relevant information available.

12. Section 12. Ecological information:

12.1. Toxicity:	
Aquatic toxicity:	No further relevant information available.
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.

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13. Section 13. Disposal considerations:

13.1. Waste treatment methods:

Product disposal:	Smaller quantities can be disposed of with household waste. 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.

16.* Section 16. Other information:

Relevant H-statements (Section 3):

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H226 Flammable liquid and vapour.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H332 Harmful if inhaled.
H400 Very toxic to aquatic life.
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)
DIN: Deutsches Institut für Normung e.V. (the German Institute for Standardization)
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
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 Acute 1: Hazardous to the aquatic environment, category 1
Aquatic Chronic 2: Hazardous to the aquatic environment, category 2
Eye Dam. 1: Serious eye damage, category 1
Flam. Liq. 3: Flammable liquid, category 3
Skin Irrit. 2: Skin irritation, 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.**