



**Safety data sheet**  
Compliant with REACH Regulation (EC)  
No.1907/2006 with amendment Regulation  
(EU) 2015/830

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**BT1 – Ultimate Bathroom Sealant and Adhesive 290ml - TRIBRID® Technology**

Printing Date: 22.02.2019

Version 4

Revision: 10/03/2022

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

- **1.1 Product identifier**
- **Trade name:** BT1 – Ultimate Bathroom Sealant and Adhesive - TRIBRID® Technology
- **Article number:** BT1 535101
- **UFI:** S390-T0YP-F00D-X9NN
- **Product Form:** Mixture
  
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
  - **1.2.1 Relevant identified uses**  
**Application of the substance/mixture:** Sealant / Adhesive
  - **1.1.2 Uses advised against**  
**Restrictions on use:** Any other uses other than the advised purpose
  
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
C-Tec N.I Limited  
Unit 6 Ashtree Enterprise Park,  
Rathfriland Road, Newry, Co.Down,  
N. Ireland, BT34 1BY.  
**Email:** info@ct1.com
- **Website:** www.ct1.com
- **Further information obtainable from:**  
Product safety department  
info@ct1.com
  
- **1.4 Emergency telephone number:**
- **Tel:** +44(0)28 3083 4892 (Monday – Friday 9am – 5pm)  
**UK: NPIS National Poisons Information Centre Tel:** +44(0)344 892 0111



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**SECTION 2: Hazards identification**

**2.1. Classification of the substance or mixture**

<b>Classification according to Regulation (EC) No 1272/2008 [CLP].</b>	Skin sensitisation, Category 1 - H317 Hazardous to the aquatic environment, Chronic Hazard, Category 4 - H412
<b>Adverse physicochemical, human health and environmental effects.</b>	May cause an allergic skin reaction. Harmful to aquatic life with lasting effects.

Full text of H- and EUH-statements: see section 16

**2.2. Label elements**

<b>Hazard pictogram</b>	 GHS07
<b>Signal word:</b>	Warning
<b>Contains:</b>	Trimethoxyvinylsilane.
<b>Hazard statements:</b>	H317 - May cause an allergic skin reaction. H412 - May cause long lasting harmful effects to aquatic life.
<b>Precautionary statements:</b>	P261 - Avoid breathing dust/fume/gas/mist/vapours/spray. P280 - Wear protective clothing, eye protection, face protection. P321 - Specific treatment (see supplemental first aid instruction on this label). P333+P313 - If skin irritation or rash occurs: Get medical advice/attention. P362+P364 - Take off contaminated clothing and wash it before reuse.
<b>EUH statements</b>	EUH208 - Contains Trimethoxyvinylsilane (2768-02-7). May produce an allergic reaction.

**2.2. Other hazards**

<b>Contains:</b>	This product does not contain any substances classified as PBT or vPvB $\geq 0.1\%$ assessed in accordance with REACH Annex XIII.
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**SECTION 3: Composition/information on ingredients**

**3.1 Substances: Not Applicable**

**3.2 Chemical characterization: Mixtures**

**Description:** Hazard classification of this material is based on the worst possible case.

**Hazardous components:**

**TITANIUM DIOXIDE [in powder form containing particles with aerodynamic diameter  $\geq 10 \mu\text{m}$ ]**

EC Number	CAS Number	REACH-no:	Classification	Percent
236-675-5	13463-67-7	01-2119489379-17	Aquatic Chronic 3, H412	<5%

**TRIMETHOXYVINYL-SILANE**

EC Number	CAS Number	REACH-no:	Classification	Percent
220-449-8	2768-02-7	01-2119513215-52	Skin Sens. 1B, H317 STOT RE 2, H373	<5%

**CARBONIC ACID, [(dimethoxymethylsilyl)methyl]-, methyl ester**

EC Number	CAS Number	REACH-no:	Classification	Percent
457-690-5	23432-65-7	01-0000019371-74	Repr. 2, H361f Repr. 2, H361d	<1%

**ZINC OXIDE (nano)**

EC Number	CAS Number	REACH-no:	Classification	Percent
215-222-5 EC Index-No.: 030-013-00-7	1314-12-2	01-2119463881-32	Acute Acute , H400 Aquatic Chronic 1, H410	<1%

**A MIXTURE OF: isomers of 2-(2H-benzotriazol-2-yl)-4-methyl-(n)-dodecylphenol; isomers of 2-(2H-benzotriazol-2-yl)-4-methyl-(n)-tetracosylphenol; isomers of 2-(2H-benzotriazol-2-yl)-4-methyl-5,6-didodecyl-phenol. n=5 or 6**

EC Number	CAS Number	REACH-no:	Classification	Percent
401-680-5 EC Index-No.: 604-057-00-8	12304-04-3	01-0000015153-80	Acute Acute , H400 Aquatic Chronic 1, H410	<1%

Full text of H- and EUH-statements: see section 16



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## SECTION 4: First aid measures

### 4.1 Description of first aid measures

**After inhalation:** Remove person to fresh air and keep comfortable for breathing.

**After skin contact:** Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.

**After eye contact:** Rinse with water as a precaution.

**After ingestion:** Call a poison centre or a doctor if you feel unwell.

### 4.2 Most important symptoms and effects, both acute and delayed

**After skin contact:** May cause an allergic skin reaction.

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

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

**Suitable extinguishing agents:** Water spray, dry powder, foam, carbon dioxide.

### 5.2 Special hazards arising from the substance or mixture

**Hazardous decomposition products in case of fire:** Toxic fumes may be released.

### 5.3 Advice for firefighters

**Protection during firefighting:** Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

**6.1.1. Emergency procedures:** Ventilate spillage area. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray.

**6.1.2 For emergency responders:** Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

**6.2 Environmental precautions:** Avoid release to the environment.

### 6.3 Methods and material for containment and cleaning up:

**Methods for cleaning up:** Take up liquid spill into absorbent material.

**Other information:** Dispose of materials or solid residues at an authorized site.

**6.4 Reference to other sections:** For further information refer to section 13.



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**SECTION 7: Handling and storage**

**7.1 Precautions for safe handling**

**Precautions for safe handling:** Ensure good ventilation of the work station. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray. Wear personal protective equipment.

**Hygiene measures:** Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

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

**Storage conditions:** Store in a well-ventilated place. Keep cool.

**7.3 Specific end use(s):** No additional information available.

**SECTION 8: Exposure controls/personal protection**

**8.1 Control parameters**

**8.1.1 National occupational exposure and biological limit values**

No additional information available.

**8.1.2 Recommended monitoring procedures**

No additional information available.

**8.1.3. Air contaminants formed**

No additional information available.

**8.1.4. DNEL and PNEC**

No additional information available.

**8.1.5. Control banding**

No additional information available.

**Appropriate engineering controls:**

Ensure good ventilation of the work station.

**8.2. Exposure controls**

**8.2.1 Appropriate engineering controls**

**Appropriate engineering controls:** Ensure good ventilation of the work station.

**8.2.2 Personal protection equipment**

**Personal protective equipment symbol(s)**



**8.2.2.1. Eye and face protection:** Wear safety glasses.

**8.2.2.2. Skin and body protection:** Wear suitable protective clothing.

**Hand protection:** Wear Protective gloves.

**8.2.2.3. Respiratory protection:** In case(s) of insufficient ventilation, wear suitable respiratory equipment.

**8.2.2.4. Thermal hazards:** No additional information available.

**8.2.3. Environmental exposure controls:** Avoid release to the environment.



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**SECTION 9: Physical and chemical properties**

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

<b>Physical State:</b>	Liquid
<b>Appearance:</b>	Paste
<b>Colour:</b>	White
<b>Odour:</b>	Characteristic
<b>Odour Threshold:</b>	No data available.
<b>pH:</b>	No data available.
<b>Relative evaporation rate (butylacetate=1)</b>	No data available.
<b>Melting point / freezing point:</b>	No data available.
<b>Initial boiling point and boiling range:</b>	No data available.
<b>Flash point:</b>	No data available.
<b>Auto-ignition temperature:</b>	No data available.
<b>Decomposition temperature:</b>	No data available.
<b>Flammability (solid, gas):</b>	No data available.
<b>Vapour pressure:</b>	No data available.
<b>Relative vapour density at 20 °C</b>	No data available.
<b>Relative Density:</b>	≈ 1.62
<b>Solubility:</b>	No data available.
<b>Partition coefficient: n-octanol / water (Log Pow)</b>	No data available.
<b>Viscosity, kinematic:</b>	No data available.
<b>Viscosity, dynamic:</b>	No data available.
<b>Explosive properties:</b>	No data available.
<b>Oxidising properties:</b>	No data available.

**9.2 Other Information:** No additional information available.



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**SECTION 10: Stability and reactivity**

- 10.1 Reactivity:** The product is non-reactive under normal conditions of use, storage and transport.
- 10.2 Chemical stability:** Stable under normal conditions.
- 10.3 Possibility of hazardous reactions:** No dangerous reactions known under normal conditions of use.
- 10.4 Conditions to avoid:** None under recommended storage and handling conditions (see section 7).
- 10.5 Incompatible materials:** No additional information available.
- 10.6 Hazardous decomposition products:** Under normal conditions of storage and use, hazardous decomposition products should not be produced.

**SECTION 11: Toxicological information**

**11.1 Information on toxicological effects:**

Acute toxicity (oral) :	Not classified.
Acute toxicity (dermal) :	Not classified.
Acute toxicity (inhalation) :	Not classified.

**CARBONIC ACID, [(dimethoxymethylsilyl)methyl]-, methyl ester (24332-65-7)**

LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
A MIXTURE OF: isomers of 2-(2H-benzotriazol-2-yl)-4-methyl-(n)-dodecylphenol; isomers of 2-(2H-benzotriazol-2-yl)-4-methyl-(n)-tetracosylphenol; isomers of 2-(2H-benzotriazol-2-yl)-4-methyl-5,6-didodecyl-phenol. n=5 or 6 (125304-14-3)	
LD50 oral rat	> 5000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)
LD50 oral	> 5000 mg/kg bodyweight Animal:
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
<b>TITANIUM DIOXIDE [in powder form containing particles with aerodynamic diameter <math>\geq 10 \mu\text{m}</math>] (13463-67-7)</b>	
LD50 oral rat	> 5000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 425 (Acute Oral Toxicity: Up-and-Down Procedure), Guideline: EPA OPPTS 870.1100 (Acute Oral Toxicity)

Skin corrosion/irritation:	Not classified.
Serious eye damage/irritation:	Not classified.
Respiratory or skin sensitisation:	May cause an allergic skin reaction.
Germ cell mutagenicity:	Not classified.
Carcinogenicity:	Not classified.
Reproductive toxicity:	Not classified.

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**TRIMETHOXYVINYLSILANE (2768-02-7)**

<b>NOAEL (animal/male, F0/P)</b>	1000 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Combined Repeated Dose and Reproductive / Developmental Toxicity Screening Test (Precursor Protocol of GL 422)
<b>NOAEL (animal/female, F0/P)</b>	250 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Combined Repeated Dose and Reproductive / Developmental Toxicity Screening Test (Precursor Protocol of GL 422)

STOT-single/repeated exposure : Not classified

**CARBONIC ACID, [(dimethoxymethylsilyl)methyl]-, methyl ester (24332-65-7)**

<b>NOAEL (oral, rat, 90 days)</b>	150 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity in Rodents)
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**TRIMETHOXYVINYLSILANE (2768-02-7)**

<b>LOAEL (oral, rat, 90 days)</b>	62.5 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
<b>NOAEL (oral, rat, 90 days)</b>	< 62.5 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
<b>STOT-repeated exposure</b>	May cause damage to organs through prolonged or repeated exposure

**A MIXTURE OF: isomers of 2-(2H-benzotriazol-2-yl)-4-methyl-(n)-dodecylphenol; isomers of 2-(2H-benzotriazol-2-yl)-4-methyl-(n)-tetracosylphenol; isomers of 2-(2H-benzotriazol-2-yl)-4-methyl-5,6-didodecyl-phenol. n=5 or 6 (125304-14-3)**

<b>NOAEL (oral, rat, 90 days)</b>	1000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity in Rodents)
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Aspiration hazard : Not classified.





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**SECTION 12: Ecological information**

**12.1. Toxicity:**

**Ecology - general:** Harmful to aquatic life with long lasting effects.

**Hazardous to the aquatic environment, short-term (acute):** Not classified.

**Hazardous to the aquatic environment, long-term (chronic):** Harmful to aquatic life with long lasting effects.

**Not rapidly degradable**

**CARBONIC ACID, [(dimethoxymethylsilyl)methyl]-, methyl ester (24332-65-7)**

LC50 - Fish [1]	> 100 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
EC50 - Crustacea [1]	> 100 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	76.17 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
EC50 72h - Algae [2]	117.42 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)

**TRIMETHOXYVINYL-SILANE (2768-02-7)**

LC50 - Fish [1]	> 100 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)
EC50 - Crustacea [1]	168.7 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	> 957 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)

**A MIXTURE OF: isomers of 2-(2H-benzotriazol-2-yl)-4-methyl-(n)-dodecylphenol; isomers of 2-(2H-benzotriazol-2-yl)-4-methyl-(n)-tetracosylphenol; isomers of 2-(2H-benzotriazol-2-yl)-4-methyl-5,6-didodecyl-phenol. n=5 or 6 (125304-14-3)**

LC50 - Fish [1]	> 72.3 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)
EC50 - Crustacea [1]	> 0.005 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	> 10 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)

**TITANIUM DIOXIDE [in powder form containing particles with aerodynamic diameter  $\geq 10 \mu\text{m}$ ] (13463-67-7)**

LC50 - Fish [1]	155 mg/l Test organisms (species): other: Japanese Medaka
EC50 - Crustacea [1]	19.3 mg/l Test organisms (species): Daphnia magna
EC50 - Crustacea [2]	27.8 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	> 100 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
NOEC (chronic)	$\geq 2.92$ mg/l Test organisms (species): Daphnia magna Duration: '21 d'

**12.2. Persistence and degradability:** No additional information available.

**12.3. Bioaccumulative potential:** No additional information available.

**12.4. Mobility in soil:** No additional information available.

**12.5. Results of PBT and vPvB testing:** No additional information available.

**12.6. Other adverse effects:** No additional information available.



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**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods:** Dispose of contents/container in accordance with licensed collector's sorting instructions.

**SECTION 14: Transport information**

**In accordance with ADR / IMDG / IATA / ADN / RID**

<b>14.1 UN-Number</b> ADR, ADN, IMDG, IATA, RID	Not applicable.
<b>14.2 UN proper shipping name</b> ADR, ADN, IMDG, IATA, RID	Not applicable.
<b>14.3 Transport hazard class(es)</b> ADR, ADN, IMDG, IATA, RID	Not applicable.
<b>14.4 Packing group</b> ADR, ADN, IMDG, IATA, RID	Not applicable.
<b>14.5 Environmental hazards:</b>	Not applicable.

No supplementary information available

<b>14.6 Special precautions for user</b> Overland transport/Transport by sea/ Air transport/Inland waterway transport/ Rail transport	Not applicable.
<b>14.7 Transport in bulk according to Annex II of Marpol 73/78 and the IBC Code</b>	Not applicable.



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**SECTION 15: Regulatory information**

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

**15.1.1. EU-Regulations**

**EU legislation:**

Contains no REACH substances with Annex XVII restrictions.  
Contains a substance on the REACH candidate list in concentration  $\geq 0.1\%$  / SCL.  
Contains no REACH Annex XIV substances.  
Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.  
Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants.  
Contains no substance subject to REGULATION (EU) No 1005/2009 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 September 2009 on substances that deplete the ozone layer.  
Contains no substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors.  
Contains no substance subject to Regulation (EC) 273/2004 of the European Parliament and of the Council of 11 February 2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances.

**National legislation:** No additional information available.



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## SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

**Department issuing MSDS:** Product safety department.

**Contact:** msds@ct1.com

### Full text of H- and EUH-statements:

Aquatic Acute 1: Hazardous to the aquatic environment — Acute Hazard, Category 1.

Aquatic Chronic 1: Hazardous to the aquatic environment — Chronic Hazard, Category 1.

Aquatic Chronic 3: Hazardous to the aquatic environment — Chronic Hazard, Category 3.

EUH208: Contains Trimethoxyvinylsilane (2768-02-7). May produce an allergic reaction.

Eye Dam. 1: Serious eye damage/eye irritation, Category 1.

H317: May cause an allergic skin reaction.

H361d: Suspected of damaging the unborn child.

H361f: Suspected of damaging fertility.

H373: May cause damage to organs through prolonged or repeated exposure.

H400: Very toxic to aquatic life.

H410: Very toxic to aquatic life with long lasting effects.

H412: Harmful to aquatic life with long lasting effects.

Repr. 2: Reproductive toxicity, Category 2.

Skin Irrit. 2: Skin corrosion/irritation, Category 2.

Skin Sens. 1B: Skin sensitisation, category 1B.

STOT RE 1: Specific target organ toxicity — Repeated exposure, Category 1.

STOT RE 2: Specific target organ toxicity — Repeated exposure, Category 2.

### Abbreviations and acronyms:

ADN: The 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).

ATE: Acute Toxicity Estimate

BCF: Bioconcentration factor

BLV: Biological limit value

BOD: Biochemical oxygen demand (BOD)

CAS-No.: Chemical Abstract Service number

COD: Chemical oxygen demand (COD)

DMEL: Derived Minimal Effect level

DNEL: Derived-No Effect Level

EC-No.: European Community number

EC50: Median effective concentration

ED: Endocrine disrupting properties

EN: European Standard

IARC: International Agency for Research on Cancer

IATA: International Air Transport Association

IMDG: International Maritime Dangerous Goods

LC50: Median lethal concentration

LD50: Median lethal dose

LOAEL: Lowest Observed Adverse Effect Level

NOAEC: No-Observed Adverse Effect Concentration

NOAEL: No-Observed Adverse Effect Level

NOEC: No-Observed Effect Concentration

N.O.S.: Not Otherwise Specified

OECD: Organisation for Economic Co-operation and Development

OEL: Occupational Exposure Limit

PBT: Persistent Bioaccumulative Toxic

PNEC: Predicted No-Effect Concentration

REACH – Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006. RID: Regulations concerning the International Carriage of Dangerous Goods by Rail

RID: Regulations concerning the International Carriage of Dangerous Goods by Rail

SDS: Safety Data Sheet

STP: Sewage treatment plant

ThOD: Theoretical oxygen demand (ThOD)

TLM: Median Tolerance Limit

VOC: Volatile Organic Compounds

vPvB: Very Persistent and Very Bioaccumulative