



**C-TEC**  
BUILDING PRODUCT  
SPECIALISTS

Product Information



**TECHNICAL DATA**

**TRIBRID® Polymer**

**Application temperature** +5°C to +40°C  
**Flow/sag** < 3mm  
**Skin cure** 23°C 50% R.H. 25 minutes ± 5 min  
**Full cure time** 23°C 50% R.H. 2-3mm/12hrs  
 (Due to the versatility of CT1 and the multitude of diverse applications, both internally and externally, the curing time can vary) 3-6 mm/12-48hrs  
 6-12mm/48-72hrs

	Colours	Clear + Silver
<b>Density ISO 1183-1</b>	1.58kg/Ltr	1.04kg/Ltr
<b>E-Modulus 100% (DIN 53504-S1A)</b>	1.15 N/mm <sup>2</sup>	0.64 N/mm <sup>2</sup>
<b>Volume shrinkage after cure:</b>	<3%	<3%
<b>Hardness – DIN 53505:</b>	55° Shore A	42° Shore A
<b>Tensile strength : (DIN 53504-S1A)</b>	2.90 N/mm <sup>2</sup> (2.90 Mpa)	1.60 N/mm <sup>2</sup> (1.60 Mpa)
<b>Substrate Bonding (Tensile Force)</b>	3.07 N/mm <sup>2</sup> = 31.3 Kg/cm <sup>2</sup>	

Samples prepared and tested to BS EN ISO 8339:2005, Determination of Tensile properties - Extension at break  
 See [CT1 TRIBRID® Multiple Substrate Test Report](#) for full details.

**Thermal stability:** -40°C to + 120°C  
**Elongation at rupture (DIN 53504-S1A)** 385% 500%  
**Frost Resistance during transport:** Up to -15°C  
**Curing system:** Neutral Cure  
**Non Toxic**  
**EC1 Plus Certified A+ Indoor Air Comfort GOLD®**  
**ISEGA Food Preparation Certificate**  
**ETAG 022**  
**Chemical resistance**  
**Good:** Water, seawater, aliphatic solvents, oils, greases, Diluted organic acids.  
**Moderate:** Esters, Ketones, Aromatics, Chlorine for swimming pools chlorinated solvents.  
**Limitations:** Strong Acids and Alkalis  
**Dirt attachment:** Practically none  
**Shelf life:** 18 months

C-Tec N.I. Limited, Unit 6 Ashtree Enterprise Park,  
 Newry, Co. Down, Northern Ireland, BT34 1BY.  
 Tel: 028 3083 4892 Fax: 028 3026 4444  
 Email: [info@ct1.com](mailto:info@ct1.com) Web: [www.ct1.com](http://www.ct1.com)

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## APPLICATIONS

For all applications, including construction, engineering, roofing, repair & maintenance, installation and marine repair CT1 replaces: Wood and P.U. adhesives, silicone sealants, sanitary silicone sealants, acrylic sealants and butyl rubber sealants.

As a universal adhesive CT1 bonds to all metals (including lead), glass, mirrors, all woods, MDF, polystyrene, fibreglass, tiles, concrete, most stones (without staining), most synthetic materials, plastics (excluding PP, PE and PTFE).

On mirror applications apply in vertical strips (Not suitable for PP backed mirrors). CT1 works on natural stone (does not bleed through), polyester, polystyrene foam, wet surfaces, even under water.

CT1 Clear and Silver are used predominantly internally and all colours have become the professionals' choice in large scale infrastructure projects.

CT1 can also be painted but must be fully cured and is paintable with all common water-based paints (not suitable with Alkyd Paints). For best results prior testing is recommended.

For application advice on powder coated substrates contact powder coating manufacturer.

### **DIRECTION FOR USE:**

Before use ensure the cartridge has been stored at room temperature

Cut the Cartridge at the nose

Cut off nozzle at desired dimensions

Use a Mastic Gun

Apply on a clean, degreased surface

Finish off the joints with MULTISOLVE

**AVAILABLE COLOURS:** Clear, white, black, grey, beige, brown, oak, blue, silver & anthracite.

### **CT1: DELIVERY FORM**

Recyclable 290ml Cartridges. (Please note cartridges must be completely empty and nozzle removed before being recycled).

C-Tec N.I. Limited, Unit 6 Ashtree Enterprise Park,  
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**C-TEC**<sup>®</sup>  
BUILDING PRODUCT  
SPECIALISTS

Declaration of  
Performance



In accordance with Annex III of Regulation (EU) No 305/2011  
(Construction Product Regulation)

**CT1 Clear & Silver**

**No : DOP2019-1-CT1**

**1. Unique identification code of product-type:**

C-TEC CT1 (Clear & Silver)

**2. Type, batch or serial number or any other element allowing identification of the construction product as required to Article 11 (4):**

Batch number: See product packaging

**3. Intended use or uses of construction product, in accordance with applicable harmonized technical specification, as foreseen by the manufacturer:**

EN15651-1: F-INT: Sealant for façade for interior application.

**4. Name, registered name or registered trade mark and contact address for the manufacture as required to Article 11 (5):**

**C-TEC NI LIMITED ■ UNIT 6 ASHTREE ENT PK ■ RATHFRILAND RD ■ NEWRY ■ CO. DOWN ■  
BT34 1BY ■ NORTHERN IRELAND**

**5. Name and contact address of the authorized representative whose mandate covers the task specified in Article 12 (2):** Not Applicable

**6. System or systems of assessment and verification of constancy of performance of the construction product as set out in Annex V:**

System 3  
System 3 for reaction to fire

**7. In case of declaration of performance concerning a construction product covered by a harmonized standard:**

EN15651-1: F-INT

The notified body 4Ward Testing Ltd, identification number 2538 performed initial type testing under system 3 and issued a test report.

**8. In case of the declaration of performance concerning a construction product for which a European Technical Assessment has been issued:** Not Applicable

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Performance



## 9. Declared performance

EN 15651-1: F-INT

Non-structural sealant for joints only n the internal side of façade elements

Pre-Conditioning: Method B (according to ISO 8340)

Substrate: Glass – without primer

Essential characteristics	Performance	Harmonized technical specification
Reaction to fire (EN13501)	Class E	
Release of chemical dangerous to the environment and health	NPD(*) See product safety data sheet	
Water Tightness & Air Tightness as determined by:		
Resistance to flow	≤ 5 mm	EN 15651-1:2012
Loss of volume	≤ 45 %	EN 15651-1:2012
Tensile properties: elongation at break	NF	EN 15651-1:2012
Durability	Pass	EN 15651-1:2012

(\*) See material safety data sheet

NPD: No Performance Determined

NF: No Failure

NR: Not required

Where pursuant in Article 37 or 38 the Specific Technical Documentation has been used, the requirements with which the product complies: Not Applicable

10. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 9. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.

Signed for and on behalf of the manufacturer by

JIMMY WALSH  
MANAGING DIRECTOR  
C-TEC NI LIMITED

10-2019



**C-TEC**<sup>®</sup>  
BUILDING PRODUCT  
SPECIALISTS

Declaration of  
Performance



2538

C-Tec N.I. Limited, Unit 6 Ashtree Enterprise Park,  
Newry, Co. Down, BT34 1BY, Northern Ireland  
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Reference No: DOP2019-1-CT1 (Clear & Silver)

**CT1 – CLEAR & SILVER**

**EN 15651-1: F-INT**

**Pre-Conditioning: Method B.**

**Substrate: Glass – without primer**

**EN 15651-1: F-INT**

**Non-structural sealant for joints on the  
internal side of façade elements**

Reaction to Fire: Class E

Resistance to flow: ≤5mm

Loss of volume: ≤45%

Tensile properties: Elongation at break NF

Durability: Pass

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Email: [info@ct1.com](mailto:info@ct1.com) Web: [www.ct1.com](http://www.ct1.com)

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

- **1.1 Product identifier**
- **Trade name:** CT1 Clear & Silver - TRIBRID<sup>®</sup> Technology
- **Article number:** CT1 539506 and 535706
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
- **Application of the substance / the preparation** Sealant / Adhesive
- **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](mailto:info@ct1.com)
- **Website:** [www.ct1.com](http://www.ct1.com)
- **Further information obtainable from:**  
Product safety department.  
[info@ct1.com](mailto: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

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

- **Classification according to Regulation (EC) No 1272/2008 [CLP].** Eye Irrit. 2 – H319.

### 2.2 Label elements

- **Labelling according to Regulation (EC) No 1272/2008 [CLP]**



- **Signal word;** Warning
- **Hazard statements**  
H319: Causes serious eye irritation.
- **Precautionary Statements – Prevention;**  
P264: Wash hands thoroughly after handling.  
P280: Wear protective gloves/protective clothing/eye protection/face protection.
- **Precautionary Statements – Response;**  
P305+P351+P338: IF IN EYES: Rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313: If eye irritation persists: get medical attention.
- **Additional information:** Not applicable

## SECTION 3: Composition/information on ingredients

- **3.2 Chemical characterization: Mixtures**
- **Description:** Homogeneous mixture of tribrid polymer, plasticiser, filler and ancillaries.
- **Hazardous components:**



# Safety data sheet

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No.1907/2006 No.453/2010/EG

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Version 1

Printing Date: 22.02.2019

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## CT1 Clear & Silver - TRIBRID® Technology

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CAS: 3068-78-8 EINECS: 221-329-8 Reg.nr.: - 01-2120770726-45-xxxx	3-(Cyclohexylamino)propyltriethoxysilane ----- Skin Corr/Irrit 2; H315      Eye dam 1; H318	< 1%
CAS: 13822-56-5 EINECS: 237-511-5 Reg.nr.: - 01-2119510159-45-xxxx	3-(Trimethoxysilyl)propylamine ----- Skin Corr/Irrit 2; H315      Eye dam 1; H318	< 1%

· **Additional information:** For the wording of the listed Hazard (H) / Precautionary (P) phrases refer to section 16.

## SECTION 4: First aid measures

### · 4.1 Description of first aid measures

- **After inhalation:** Supply fresh air.
- **After skin contact:** Wash with plenty of soap and water for 10-15 minutes. Seek medical advice in case of irritation.
- **After eye contact:** Rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: get medical attention.
- **After swallowing:** Rinse mouth immediately and then drink plenty of water, seek medical attention in case of irritation.

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

No further relevant information available.

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

Further toxicology information is available in SECTION 11.

## SECTION 5: Firefighting measures

### · 5.1 Extinguishing media

- **Suitable extinguishing agents:** Water mist, dry powder, alcohol-resistant foam, carbon dioxide or sand.
- **Unsuitable extinguishing agents:** Water spray or water jet.

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

- **Hazardous combustion products;** Nitrous gases

### · 5.3 Advice for firefighters

- **Protective equipment:** Use respiratory protection independent of recirculated air.

## SECTION 6: Accidental release measures

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

#### · 6.1.1. For non-emergency personnel.

**Protective equipment:** Wear personal protective equipment (see SECTION 8).

**Emergency procedures:** Keep unprotected persons away. Avoid contact with skin and eyes. Avoid inhaling mists and vapours.

- **6.2 Environmental precautions:** Prevent material from entering surface waters, drains or sewers and soil. Contain any fluid that runs out using suitable material (e.g. earth). Retain contaminated water/extinguishing water. Dispose of in prescribed marked containers.

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

- **6.3.1. For containment:** Do not flush away with water. For small amounts: Absorb with a liquid binding material such as diatomaceous earth and dispose of according to local/state/federal regulations. Contain larger amounts and pump up into suitable containers. Clean any slippery coating that remains using a detergent / soap solution or another biodegradable cleaner.

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- **6.3.2. For cleaning up:** No further data available.
- **6.3.3. Other information:**
- 6.4 Reference to other sections  
See SECTION 8 and 13.

**SECTION 7: Handling and storage**

- **7.1 Precautions for safe handling**  
**Measures to prevent fire:** Keep away from sources of ignition and do not smoke.  
**Measures to prevent aerosol and dust generation:** Not required.  
**Measures to protect the environment:** No further data available.
- **7.2 Conditions for safe storage, including any incompatibilities:**  
Protect against moisture. Store in original container only. Keep container tightly closed and store in a cool, well ventilated place.
- **7.3 Specific end use(s)** Cartridge Applied Sealant & Adhesive.

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

- **8.1 Control parameters**  
**Maximum airborne concentrations at the workplace:**

Name	CAS No.	Type	Mg/m3	ppm
Methanol	67-56-1	TWA	260	200

- **Additional information:** The lists valid during the making were used as basis.
- **8.2 Exposure controls**
- **8.2.1. Appropriate engineering controls:** Avoid contact with eyes and skin. Do not inhale gases/vapours/aerosols. Do not eat, drink or smoke when handling. Wash hands at the end of work and before eating.
- **8.2.2. Personal protection equipment**
- **8.2.2.1. Eye face protection:** Wear eye protection / face protection.
- **8.2.2.2. Skin protection:** Wear protective gloves and clothing.
- **8.2.2.3. Respiratory protection:** In case of strong exposure: gas mask filter AX
- **8.2.2.4. Thermal hazards:** Not applicable
- **8.2.3. Environmental exposure controls:** Prevent material from entering surface waters or soil.

**SECTION 9: Physical and chemical properties**

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

· <b>Appearance:</b>	Paste
· <b>Odour:</b>	Characteristic / low.
· <b>Odour Threshold:</b>	No data available.
· <b>pH:</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>	>200°C

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· <b>Evaporation rate:</b>	No data available.
· <b>Flammability (solid, gas):</b>	No data available.
· <b>Upper / lower flammability or explosive limits:</b>	No data available.
· <b>Vapour pressure:</b>	No data available.
· <b>Vapour density:</b>	No data available.
· <b>Relative Density:</b>	1.04 Kg/Ltr (water =1)
· <b>Solubility (ies) (water):</b>	No data available.
· <b>Partition coefficient: n-octanol / water:</b>	No data available.
· <b>Auto-ignition temperature:</b>	No data available.
· <b>Decomposition temperature:</b>	No data available.
· <b>Viscosity:</b>	No data available
· <b>Explosive properties:</b>	No data available.
· <b>Oxidising properties:</b>	None

**SECTION 10: Stability and reactivity**

- **10.1 Reactivity**
- **10.2 Chemical stability:** Stable when stored in sealed containers.
- **10.3 Possibility of hazardous reactions:** Reacts with water and moisture in air, liberating methanol
- **10.4 Conditions to avoid:** Moisture during storage.
- **10.5 Incompatible materials:** Oxidising agents, peroxides, alcohols, acids, moisture, water
- **10.6 Hazardous decomposition products:** Methanol.

**SECTION 11: Toxicological information**

- **11.1 Information on toxicological effects:** (N-cyclohexylaminopropyl)trimethoxysilane  
LD50 oral RT; > 2000 mg/kg
- **Acute toxicity:** Not classified.
- **Skin corrosion/irritation:** Causes skin irritation
- **Serious eye damage / eye irritation:** Causes serious eye damage
- **Respiratory or skin sensitisation:** Not classified.
- **Germ cell mutagenicity:** Not classified.
- **Carcinogenicity:** Not classified.
- **Reproductive toxicity:** Not classified.
- **STOT – single exposure:** Not classified.
- **STOT – repeated exposure:** Not classified.
- **Aspiration hazard:** Not classified.
- **Symptoms / effects after inhalation:** May cause irritation to the respiratory tract. Overexposure may cause: Cough, Headache, Nausea.
- **Symptoms / effects after skin contact:** Causes skin irritation.
- **Symptoms / effects after eye contact:** Causes serious eye damage.

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- **Symptoms / effects after ingestion:** Oral toxicity is associated with methanol, the solvent and a hydrolysis product that causes nausea, vomiting, headaches, visual effects including blindness. Onset of symptoms may be delayed up to 48 hours.
- **Chronic symptoms:** On contact with water, this compound liberates methanol that is known to have a chronic effect on the central nervous system. Methanol may affect the central nervous system resulting in persistent or recurring headaches or impaired vision.

**SECTION 12: Ecological information**

- **12.1. Toxicity:** No data available
- **12.2. Persistence and degradability:** Biologically not biodegradable.
- **12.3. Bioaccumulative potential:** No data available
- **12.4. Mobility in soil:** No data available
- **12.5. Results of PBT and vPvB testing:** No data available
- **12.6. Other adverse effects:** None known
- **12.7. Additional information:** No data available

**SECTION 13: Disposal considerations**

- **13.1. Waste treatment methods:** Observe local regulations.
- **13.1.1. Product / packaging disposal:**  
**Waste codes / waste designations according to LoW:**  
 Dispose of in accordance with local regulations. Do not empty product into drains. According to the European catalogue, waste codes are not product specific, but application specific. The user should assign waste codes, preferably in discussion with the waste disposal authorities.
- **13.1.2. Waste treatment-relevant information:** No data available.
- **13.1.3. Sewage disposal-relevant information:** No data available.
- **13.1.4. Other disposal recommendations:** No data available.

**SECTION 14: Transport information**

<ul style="list-style-type: none"> <li>· <b>14.1 UN-Number</b></li> <li>· <b>ADR, ADN, IMDG, ICAO/IATA, RID</b></li> </ul>	Not regulated
<ul style="list-style-type: none"> <li>· <b>14.2 UN proper shipping name</b></li> <li>· <b>ADR, ADN, IMDG, ICAO/IATA, RID</b></li> </ul>	Not regulated
<ul style="list-style-type: none"> <li>· <b>14.3 Transport hazard class(es)</b></li> <li>· <b>ADR, ADN, IMDG, ICAO/IATA, RID</b></li> </ul>	Not regulated
<ul style="list-style-type: none"> <li>· <b>14.4 Packing group</b></li> <li>· <b>ADR, ADN, IMDG, ICAO/IATA, RID</b></li> </ul>	Not regulated
<ul style="list-style-type: none"> <li>· <b>14.5 Environmental hazards:</b></li> </ul>	Not regulated
<ul style="list-style-type: none"> <li>· <b>14.6 Special precautions for user</b></li> </ul>	Not regulated
<ul style="list-style-type: none"> <li>· <b>14.7 Transport in bulk according to Annex II of Marpol 73/78 and the IBC Code</b></li> </ul>	Not regulated



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## SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**  
The product has been assessed in accordance with CLP.
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

## 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.

- **Relevant Hazard (H) and Precautionary (P) phrases**

H315: Causes skin irritation.

H318: Causes serious eye damage.

H319: Causes serious eye irritation.

P264: Wash hands thoroughly after handling.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P305+P351+P338: IF IN EYES: Rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313: If eye irritation persists: get medical attention.

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

- **Contact:** msds@ct1.com

- **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.

IMDG: International Maritime Code for Dangerous Goods

ICAO: International Civil Aviation Organization

IATA: International Air Transport Association

RID - Regulation concerning the International Carriage of Dangerous Goods by Rail.

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CLP – Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008.

CAS - Chemical Abstracts Service number.

PBT - Persistent, Bioaccumulative and Toxic substance.

VPvB - Very Persistent and Very Bioaccumulative.

UN - United Nations.

REACH – Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006.



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

- **1.1 Product identifier**
- **Trade name:** CT1 Colours (Excluding Silver) - TRIBRID® Technology
- **Article number:** CT1 535106, 535206, 535306, 535406, 535506, 535606, 535906, 535307.
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
- **Application of the substance / the preparation** Sealant / Adhesive
- **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](mailto:info@ct1.com)
- **Website:** [www.ct1.com](http://www.ct1.com)
- **Further information obtainable from:**  
Product safety department.  
[info@ct1.com](mailto: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

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

- **Classification according to Regulation (EC) No 1272/2008 [CLP].**  
This mixture does not meet the criteria for classification in accordance with regulation (EC) No 1272/2008 [CLP].

### 2.2 Label elements

- **Labelling according to Regulation (EC) No 1272/2008 [CLP]**
- **Signal word;** Not applicable
- **Hazard statements**  
Not applicable
- **Precautionary Statements – Prevention;**  
Not applicable
- **Precautionary Statements – Response;**  
Not applicable
- **Additional information:**  
Not applicable

## SECTION 3: Composition/information on ingredients

- **3.2 Chemical characterization: Mixtures**
- **Description:** Homogeneous mixture of tribrid polymer, plasticiser, filler and ancillaries.

### Hazardous components:

CAS: 2768-02-7	Trimethoxyvinylsilane	<2%
EINECS: 220-449-8		
Reg.nr.: - 01-2119513215-52	Flam. Liq. 3 H226; Acute Tox. 4 H332;	

- **Additional information:** For the wording of the listed Hazard (H) / Precautionary (P) phrases refer to section 16.



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## CT1 Colours (Excluding Silver) - TRIBRID® Technology

### SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **After inhalation:** Supply fresh air.
- **After skin contact:** Wash with plenty of soap and water for 10-15 minutes. Seek medical advice in case of irritation.
- **After eye contact:** Rinse immediately with plenty of water. Seek medical advice in case of irritation.
- **After swallowing:** Give several small portions of water to drink. Do not induce vomiting.
- **4.2 Most important symptoms and effects, both acute and delayed**  
No further data available.
- **4.3 Indication of any immediate medical attention and special treatment needed**  
Further toxicology information is available in SECTION 11.

### SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:** Water mist, dry powder, alcohol-resistant foam, carbon dioxide or sand.
- **Unsuitable extinguishing agents:** Water spray or water jet.
- **5.2 Special hazards arising from the substance or mixture**
- **Hazardous combustion products;** Nitrous gases
- **5.3 Advice for firefighters**
- **Protective equipment:** Use respiratory protection independent of recirculated air.

### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
- **6.1.1. For non-emergency personnel.**  
**Protective equipment:** Wear personal protective equipment (see SECTION 8).  
**Emergency procedures:** Keep unprotected persons away. Avoid contact with skin and eyes. Avoid inhaling mists and vapours.
- **6.2 Environmental precautions:** Prevent material from entering surface waters, drains or sewers and soil. Contain any fluid that runs out using suitable material (e.g. earth). Retain contaminated water/extinguishing water. Dispose of in prescribed marked containers.
- **6.3 Methods and material for containment and cleaning up:**
- **6.3.1. For containment:** Do not flush away with water. For small amounts: Absorb with a liquid binding material such as diatomaceous earth and dispose of according to local/state/federal regulations. Contain larger amounts and pump up into suitable containers. Clean any slippery coating that remains using a detergent / soap solution or another biodegradable cleaner.
- **6.3.2. For cleaning up:** No further data available.
- **6.3.3. Other information:**
- **6.4 Reference to other sections**  
See SECTION 8 and 13.



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### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

**Measures to prevent fire:** Product can evolve methanol. Flammable vapours may accumulate and form explosive mixtures with air in containers, process vessels, including partial, empty and uncleaned containers and vessels, or other enclosed spaces. Keep away from sources of ignition and do not smoke. Take precautionary measures against electrostatic charging.

**Measures to prevent aerosol and dust generation:** Not required.

**Measures to protect the environment:** No further data available.

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

Protect against moisture. Store in original container only. Keep container tightly closed and store in a cool, well ventilated place.

#### 7.3 Specific end use(s) Cartridge Applied Sealant & Adhesive.

### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

Maximum airborne concentrations at the workplace:

Name	CAS No.	Type	Mg/m3	ppm
Methanol	67-56-1	OEL	266	200

• **Additional information:** The lists valid during the making were used as basis.

#### 8.2 Exposure controls

• **8.2.1. Appropriate engineering controls:** Avoid contact with eyes and skin. Do not inhale gases/vapours/aerosols. Do not eat, drink or smoke when handling. Wash hands at the end of work and before eating.

#### 8.2.2. Personal protection equipment

• **8.2.2.1. Eye face protection:** Protective goggles.

• **8.2.2.2. Skin protection:** After handling; make sure the skin is cleaned and protected.

• **8.2.2.3. Respiratory protection:** In case of strong exposure: gas mask filter AX

• **8.2.2.4. Thermal hazards:** Not applicable

• **8.2.3. Environmental exposure controls:** Prevent material from entering surface waters or soil.

### SECTION 9: Physical and chemical properties

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

• <b>Appearance:</b>	Paste
• <b>Odour:</b>	Characteristic / low.
• <b>Odour Threshold:</b>	No data available.
• <b>pH:</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>	>200°C
• <b>Evaporation rate:</b>	No data available.
• <b>Flammability (solid, gas):</b>	No data available.

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· <b>Upper / lower flammability or explosive limits:</b>	No data available.
· <b>Vapour pressure:</b>	No data available.
· <b>Vapour density:</b>	No data available.
· <b>Relative Density:</b>	1.58 Kg/Ltr (water =1)
· <b>Solubility (ies) (water):</b>	No data available.
· <b>Partition coefficient: n-octanol / water:</b>	No data available.
· <b>Auto-ignition temperature:</b>	No data available.
· <b>Decomposition temperature:</b>	No data available.
· <b>Viscosity:</b>	No data available
· <b>Explosive properties:</b>	No data available.
· <b>Oxidising properties:</b>	None

## SECTION 10: Stability and reactivity

- **10.1 Reactivity**
- **10.2 Chemical stability:** Stable when stored in sealed containers.
- **10.3 Possibility of hazardous reactions:** Reacts with water and moisture in air, liberating methanol
- **10.4 Conditions to avoid:** Moisture during storage.
- **10.5 Incompatible materials:** Oxidising agents, peroxides, alcohols, acids, moisture, water
- **10.6 Hazardous decomposition products:** Methanol.

## SECTION 11: Toxicological information

- **11.1 Information on toxicological effects:** Trimethoxyvinylsilane
- **Acute toxicity**  
LC50 (RT F/M 4h): 16.8 mg/l vapour
- **Repeated dose toxicity**  
NOAEL(RT F/M oral): <62.5 mg/kg, OECD 422, LOAEL(RT F/M oral) : 62.5 mg/kg, NOAEL (RT F/M inhalation, vapour): 0.0605 mg/l
- **Skin corrosion/irritation:** Occluded (Dermal, RB, 24h) not irritating
- **Serious eye damage / eye irritation:** OECD 405 (RB 24h) not irritating
- **Respiratory / skin sensitising:** OECD 406 (GP) not a skin sensitiser
- **Germ cell mutagenicity**  
In Vitro: Bacteria (OECD 471): no mutagenic effects. Chromosomal aberration (OECD 473): clastogenic effect.  
Gene mutations on mammalian cells (OECD 476): no mutagenic effects. In Vivo: no mutagenic effects
- **Reproductivity: Fertility:** NOAEL (parent): 250 mg/kg. NOAEL (F1): none, NOAEL (F2): none, Method: OECD 422
- **Developmental toxicity: Teratogenicity:** (inhalation – vapour): NOAEL (terato): 0.6 mg/l, NOAEL (mater): 0.15 mg/l. Method: according to standardised method.







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### SECTION 15: Regulatory information

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

The product has been assessed in accordance with CLP.

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

### 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.

· **Relevant Hazard (H) and Precautionary (P) phrases**

H226: Flammable liquid and vapour.

H332: Harmful if inhaled.

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

· **Contact:** msds@ct1.com

· **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.

IMDG: International Maritime Code for Dangerous Goods

ICAO: International Civil Aviation Organization

IATA: International Air Transport Association

RID - Regulation concerning the International Carriage of Dangerous Goods by Rail.

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CLP – Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008.

CAS - Chemical Abstracts Service number.

PBT - Persistent, Bioaccumulative and Toxic substance.

VPvB - Very Persistent and Very Bioaccumulative.

UN - United Nations.

REACH – Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006.