Safety data sheet

Compliant with Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

CT1 Clear / Silver 290ml - TRIBRID® Technology

Printing Date: 22.02.2019 **Version 3** **Revision: 10/03/2022**

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

- **1.1 Product identifier**
- **Trade name: CT1 Clear & Silver - TRIBRID® Technology**
- **Article number:** CT1 539506 and 535706
- **UFI:** FU80-90WG-H00W-Y8WF
- **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)
  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

Classification according to Regulation (EC) No 1272/2008 [CLP].	Serious eye damage/eye irritation, Category 2 - H319 Skin sensitisation, Category 1 - H317 Hazardous to the aquatic environment, Chronic Hazard, Category 4 - H413 Adverse physicochemical, human health and environmental effects May cause an allergic skin reaction. Causes serious eye irritation. May cause long lasting harmful effects to aquatic life.

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

2.2. Label elements

Hazard pictogram

GHS07

Signal word:	Warning
Contains:	Trimethoxyvinylsilane.
Hazard statements:	H317 - May cause an allergic skin reaction. H319: Causes serious eye irritation. H413 - May cause long lasting harmful effects to aquatic life.
Precautionary statements:	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. P337+P313 - If eye irritation persists: Get medical advice/attention. P362+P364 - Take off contaminated clothing and wash it before reuse
EUH statements	EUH208 - Contains Trimethoxyvinylsilane (2768-02-7). May produce an allergic reaction.

2.3. Other hazards

Other hazards which do not result in classification:	The product hydrolyses under formation of methanol (CAS-Nr. 67-56-1). Methanol is classified concerning both physical and health hazards. The hydrolysis rate and consequently the relevance for the hazard profile of the product is strongly dependent on the specific conditions of use.
Contains:	This product does not contain any substances classified as PBT or vPvB ≥ 0.1% assessed in accordance with REACH Annex XIII
Other information:	The product hydrolyses under formation of methanol (CAS-Nr. 67-56-1). Methanol is classified concerning both physical and health hazards. The hydrolysis rate and consequently the relevance for the hazard profile of the product is strongly dependent on the specific conditions of use.

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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:

3-(TRIMETHOXYSILYL)PROPYLAMINE

EC Number	CAS Number	REACH-no:	Classification	Percent
237-511-5	13822-56-5	01-2119510159-45	Skin Irrit. 2 - H315 Eye Dam. 1 – H318	<5%

TRIMETHOXYVINYLSILANE

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	≥1- <5%

DIOCTYLTIN LAURATE: substance listed as REACH Candidate (Dioctyltin dilaurate, stannane, dioctyl-, bis(coco acyloxy) derivs., and any other stannane, dioctyl-, bis(fatty acyloxy) derivs. wherein C12 is the predominant carbon number of the fatty acyloxy moiety)

EC Number	CAS Number	REACH-no:	Classification	Percent
222-883-3	3648-18-8	REACH-no: 01-2119979527- 19	Acute Tox. 4 (Dermal), H312 Repr. 2, H361 STOT RE 1, H372 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	<1%

BIS: (1,2,2,6,6-pentamethyl-4-piperidyl) [[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]methyl]butylmalonate

EC Number	CAS Number	REACH-no:	Classification	Percent
264-513-3	63843-89-0	01-2119978231-37	Acute Tox. 4 (Oral), H302 STOT RE 1, H372 Aquatic Chronic 1, H410 (M=10)	<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 for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: get medical attention.
After ingestion: Call a poison center 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.
After eye contact: Eye irritation.

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 mist, 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.

Exposure limit values for the other components

Local name	**Methanol**
CAS No.	**67-56-1**
WEL TWA (OEL TWA) [1]	266 mg/m³
WEL TWA (OEL TWA) [2]	200 ppm
WEL STEL (OEL STEL)	333 mg/m³
WEL STEL (OEL STEL) [ppm]	250 ppm
Remark	Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity)
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE

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.

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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.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties.

Physical State:	Liquid
Appearance:	Paste
Colour:	Colourless, Silver
Odour:	Characteristic
Odour Threshhold:	No data available.
pH:	No data available.
Melting point / freezing point:	No data available.
Initial boiling point and boiling range:	No data available.
Flash point:	No data available.
Auto-ignition temperature:	No data available.
Decomposition temperature:	No data available.
Flammability (solid, gas):	No data available.
Vapour pressure:	No data available.
Relative vapour density at 20 °C	No data available.
Relative Density:	≈ 1.05
Solubility:	No data available.
Partition coefficient: n-octanol / water (Log Pow)	No data available.

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Viscosity, kinematic:	No data available.
Viscosity, dynamic:	11200 mPa·s @23C
Explosive properties:	No data available.
Oxidising properties:	No data available.

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: Moisture during storage.

10.5 Incompatible materials: Incompatible with water, humid air.

10.6 Hazardous decomposition products: Contact with water liberates methanol and silanol- and/or siloxanol-compounds.

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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.

bis(1,2,2,6,6-pentamethyl-4-piperidyl) [[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]methyl]butylmalonate (63843-89-0)	
LD50 oral rat	1490 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity), 95% CL: 1300 - 1708
LD50 dermal rat	> 3170 mg/kg bodyweight Animal: rat, Guideline: other:Noakes, DN and Sanderson, D.M.; A method for determining the dermal toxicity of pesticides. Brit. J. Industr. Med., 26, 59-64, 1969, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
LC50 Inhalation - Rat	> 0.46 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity)
Dioctyltin laurate (3648-18-8)	
LD50 oral rat	> 2000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 423 (Acute Oral toxicity - Acute Toxic Class Method), Guideline: EU Method B.1 tris (Acute Oral Toxicity - Acute Toxic Class Method)
LD50 dermal rat	≥ 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)

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

TRIMETHOXYVINYLSILANE (2768-02-7)	
NOAEL (animal/male, F0/P)	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)
NOAEL (animal/female, F0/P)	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)
Dioctyltin laurate (3648-18-8)	
NOAEL (animal/male, F0/P)	0.3 – 0.4 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
NOAEL (animal/female, F0/P)	0.3 – 0.5 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)

STOT-single/repeated exposure : Not classified

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TRIMETHOXYVINYLSILANE (2768-02-7)	
LOAEL (oral, rat, 90 days)	62.5 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
NOAEL (oral, rat, 90 days)	< 62.5 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure
3-(trimethoxysilyl)propylamine (13822-56-5)	
NOAEL (oral, rat, 90 days)	600 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
STOT-repeated exposure	200 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)

bis(1,2,2,6,6-pentamethyl-4-piperidyl) [[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]methyl]butylmalonate (63843-89-0)	
NOAEL (oral, rat, 90 days)	2 mg/kg bodyweight Animal: rat, Guideline: other:OECD 421
STOT-repeated exposure	Causes damage to organs through prolonged or repeated exposure
Dioctyltin laurate (3648-18-8)	
STOT-repeated exposure	Causes damage to organs through prolonged or repeated exposure

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): May cause long lasting harmful effects to aquatic life.
Not rapidly degradable

Trimethoxyvinylsilane (2768-02-7)	
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)
3-(trimethoxysilyl)propylamine (13822-56-5)	
LC50 - Fish [1]	> 934 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)
EC50 - Crustacea [1]	331 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	> 1000 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
EC50 72h - Algae [2]	603 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
bis(1,2,2,6,6-pentamethyl-4-piperidyl) [[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]methyl]butylmalonate (63843-89-0)	
LC50 - Fish [1]	> 100 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)
EC50 72h - Algae [2]	61 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
Dioctyltin laurate (3648-18-8)	
LC50 - Fish [1]	> 0.09 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)
EC50 - Crustacea [1]	> 0.21 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	> 0.0018 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)

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:

Dioctyltin laurate (3648-18-8):	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

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

14.1 UN-Number **ADR, ADN, IMDG, IATA, RID**	Not regulated
14.2 UN proper shipping name **ADR, ADN, IMDG, IATA, RID**	Not regulated
14.3 Transport hazard class(es) **ADR, ADN, IMDG, IATA, RID**	Not regulated
14.4 Packing group **ADR, ADN, IMDG, IATA, RID**	Not regulated
14.5 Environmental hazards:	Not regulated
14.6 Special precautions for user **Overland transport/Transport by sea/** **Air transport/Inland waterway transport/** **Rail transport**	Not regulated
14.7 Transport in bulk according to Annex II of Marpol 73/78 and the IBC Code	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 ≥ 0.1% or with a lower specific limit: Dioctyltin dilaurate, stannane, dioctyl-, bis(coco acyloxy) derivs., and any other stannane, dioctyl-, bis(fatty acyloxy) derivs. wherein C12 is the predominant carbon number of the fatty acyloxy moiety (EC 222-883-3, CAS 3648-18-8).
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.

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

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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:

Acute Tox. 4 (Dermal): Acute toxicity (dermal), Category 4
Acute Tox. 4 (Oral): Acute toxicity (oral), Category 4
Aquatic Acute 1: Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment — Chronic Hazard, Category 1
EUH208: Contains Trimethoxyvinylsilane(2768-02-7). May produce an allergic reaction.
Eye Dam. 1: Serious eye damage/eye irritation, Category 1
H302: Harmful if swallowed.
H312: Harmful in contact with skin.
H315: Causes skin irritation.
H317: May cause an allergic skin reaction.
H318: Causes serious eye damage.
H319: Causes serious eye irritation.
H361: Suspected of damaging fertility or the unborn child.
H372: Causes damage to organs through prolonged or repeated exposure.
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.
H413: May cause long lasting harmful effects to aquatic life.
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: Rigulations 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