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Safety Data Sheet
Compliant with Regulation (EC) No.
1907/2006 (REACH) with its amendment
Regulation (EU) 2020/878

CT1 Colours (excluding Silver) 290ml - TRIBRID® Technology

Printing Date: 15.03.2023

Version 4

Revision Date: 14/12/2022
(Supersedes V3 – 10/3/22)

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, 535307, 535406, 535506, 535606 and 535906,
- **UFI:** 1X80-T0KV-U00D-MMGH
- **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: Adhesives / Sealants
 - **1.2.2 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 (for medical professionals only)



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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].	Not classified Adverse physicochemical, human health and environmental effects To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.
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Full text of H- and EUH-statements: see section 16

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]	
EUH statements	EUH208 - Contains Trimethoxyvinylsilane (2768-02-7). May produce an allergic reaction. EUH210 - Safety data sheet available on request.

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:	no PBT/vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII.
Other information:	The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

SECTION 3: Composition/information on ingredients

3.1 Substances: Not Applicable

3.2 Mixtures

TRIMETHOXYVINYLSILANE				
EC Number	CAS Number	REACH-no:	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Percent
220-449-8	2768-02-7	01-2119513215-52	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation: dust,mist), H332 Skin Sens. 1B, H317	≥ 1 - <5%

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.

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

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

4.2 Most important symptoms and effects, both acute and delayed

No additional information available.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: 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. For non-emergency procedures: Ventilate spillage area.

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. Wear personal protective equipment.

Hygiene measures: 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.

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: Safety glasses.

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

Hand protection: 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.

Physical State:	Liquid
Appearance:	Paste
Colour:	Various Colours
Odour:	Characteristic
Odour Threshold:	Not available.
Melting point:	Not applicable.
Freezing point:	Not available.
Flammability:	Non Flammable.
Explosive limits:	Not available.
Lower/Upper explosion point:	Not available.
Flash point:	> 200 °C
Auto-ignition temperature:	Not available.
Decomposition temperature:	Not available.
pH:	Not available.
Viscosity, kinematic:	Not available.
Viscosity, dynamic:	60000 mPa·s @23C
Solubility:	Not available.
Partition coefficient: n-octanol/water (Log Kow)	Not available.
Vapour pressure:	Not available.
Vapour pressure at 50 °C:	Not available.
Density:	Not available.
Relative Density:	1.53-1.58
Vapour vapour density at 20 °C:	Not available.
Particle characteristics:	Not applicable.

9.1. Other information

No additional information available.

9.1. Other safety characteristics

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.

Trimethoxyvinylsilane (2768-02-7)

ATE CLP (dust,mist)	1.5 mg/l/4h
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Skin corrosion/irritation: Not classified.
Serious eye damage/irritation: Not classified.
Respiratory or skin sensitisation: Results based on in vivo studies on laboratory animals determined that Trimethoxyvinylsilane (VTMO) has been classified for skin sensitization category 1B (H317) under Annex VI to Regulation (EC) No 1272/2008. Evidence acquired from testing conducted on the materials we use in our products has demonstrated that no allergic reactions have been reported after occupational exposure in VTMO mixtures of up to 5%. Due to lack of evidence of any sensitizing potential at this concentration or less, this product has not been classified as H317 1B as determined by expert judgement.

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)

STOT-single/repeated exposure: Not classified

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)

Aspiration hazard: Not classified.

11.2 Information on other hazards: No additional information available.



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SECTION 12: Ecological information

12.1. Toxicity:

Ecology - general: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

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

Hazardous to the aquatic environment, long-term (chronic): Not classified.

Not rapidly degradable

Trimethoxyvinylsilane (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)

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.

SECTION 13: Disposal considerations

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



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SECTION 14: Transport information

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

14.1 UN-Number ADR, ADN, IMDG, IATA, RID	Not applicable.
14.2 UN proper shipping name ADR, ADN, IMDG, IATA, RID	Not applicable.
14.3 Transport hazard class(es) ADR, ADN, IMDG, IATA, RID	Not applicable.
14.4 Packing group ADR, ADN, IMDG, IATA, RID	Not applicable.
14.5 Environmental hazards: No supplementary information available	Not applicable.
14.6 Special precautions for user Overland transport Transport by sea Air transport Inland waterway transport Rail transport	Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.
14.7 Transport in bulk according to IMO instruments	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

REACH Annex XVII (Restriction List):	Contains no REACH substances with Annex XVII restrictions.
REACH Annex XIV (Authorisation List):	Contains no REACH Annex XIV substances.
REACH Candidate List (SVHC):	Contains no substance on the REACH candidate list.
PIC Regulation (Prior Informed Consent):	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.
POP Regulation (Persistent Organic Pollutants):	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.
Ozone Regulation (1005/2009):	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.
Explosives Precursors Regulation (2019/1148):	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.
Drug Precursors Regulation (273/2004):	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.

15.1.2 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 (Inhalation:dust,mist): Acute toxicity (inhalation:dust,mist) Category 4.

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

EUH210: Safety data sheet available on request.

Flam. Liq. 3: Flammable liquids, Category 3.

H226: Flammable liquid and vapour.

H317: May cause an allergic skin reaction.

H332: Harmful if inhaled.

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

Abbreviations and acronyms:

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

ADR: 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