

**Antibody Stabilizer TRIS**

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

**1.1. Product identifier**

Article number: 130xxx  
Product name: Antibody Stabilizer TRIS

**1.2. Relevant identified uses of the substance or mixture and uses advised against**

Identified uses: Laboratory chemicals  
The product is intended for professional use.

**1.3. Details of the Supplier of the Safety Data Sheet**

Supplier: CANDOR Bioscience GmbH  
Simoniusstrasse 39  
88239 Wangen  
Germany  
Telephone: +49 7522 795270  
E-mail (competent person): [support@candor-bioscience.de](mailto:support@candor-bioscience.de)

**1.4 Emergency telephone number**

+49 7522 795270 (only available during office hours)

**SECTION 2: Hazards identification**

**2.1 Classification of the substance or mixture**

**Classification according to Regulation (EC) No. 1272/2008 [CLP]**

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP].

**2.2: Label elements**

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

According to EC directives or the corresponding national regulations the product does not have to be labelled.

**2.3 Other hazards**

This mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

**SECTION 3: Composition/information on ingredients**

**3.2 Mixtures**

Description of the mixture: Aqueous solution of organic / inorganic compounds. Hazardous ingredients: Ethanediol, CMIT/MIT				
CAS No./ EC No./ Registration No.	% [w/w]	Name	Classification according to Regulation (EC) No 1278/2008 (CLP).	SCL and/or M-factor
102-21-1/ 203-473-3/ 01-2119456816-28-XXXX	≤ 5 %	Ethanediol	Acute Tox. 4, H302	
55965-84-9/ Not applicable/ Not applicable	< 0.0014 %	reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H - isothiazol-3-one [EC no. 220-239-6] (3:1)	Acute Tox. 3, H331; Acute Tox. 3; H311, Acute Tox. 3, H301; Skin Corr. 1B, H314; Skin Sens. 1, H317; Aquatic Acute 1, H400; Aquatic Chronic 1, H410	Skin Corr. 1B; H314: C ≥ 0.6 %; Skin Irrit. 2; H315: 0.06 % ≤ C < 0.6 %; Eye Irrit. 2; H319: 0.06 % ≤ C < 0.6 %; Skin Sens. 1; H317: C ≥ 0.0015 % M-factor=10

Full text of H-statements: see section 16.

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### **SECTION 4: First aid measures**

#### **4.1 Description of first aid measures**

##### **General information:**

Remove contaminated, saturated clothing immediately. In the case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

##### **Following inhalation:**

Remove casualty to fresh air and keep warm and at rest.

##### **Following skin contact:**

Wash immediately with soap and water. In case of skin irritation consult a physician.

##### **Following eye contact:**

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

##### **Following ingestion:**

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention.

##### **Self-protection of the first aider:**

First aider: Pay attention to self-protection!

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

No further relevant information available.

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

No further relevant information available.

### **SECTION 5: Firefighting measures**

#### **5.1 Extinguishing media**

Suitable extinguishing media: Carbon dioxide (CO<sub>2</sub>), foam, water, extinguishing powder.

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

Hazardous combustion products: None.

#### **5.3 Advice for fire-fighters**

Co-ordinate fire-fighting measures to the fire surroundings.

### **SECTION 6: Accidental release measures**

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

For non-emergency personnel:

Use personal protective equipment, see Section 8.

For emergency responders:

Use personal protective equipment, see Section 8.

#### **6.2 Environmental precautions**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

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

Clear contaminated areas thoroughly.

### **SECTION 7: Handling and storage**

#### **7.1 Precautions for safe handling**

**Protective measures:** Use in well-ventilated areas. Handle and open container with care. Always close containers tightly after the removal of product. Wear personal protective clothing (see Section 8).

**Measures to prevent fire:** This product is not flammable. No special fire protection measures are necessary.

**Advice on general occupational hygiene:** Avoid contact with skin, eyes and clothes. Provide eye shower and label its location conspicuously. Wash hands before breaks and after work. When

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using do not eat, drink, smoke, sniff. Remove contaminated, saturated clothing immediately. Wash contaminated clothing prior to re-use.

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

No special measures are necessary.

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

**8.1 Control parameters**

Limit value type (country of origin)	Substance name	EC-No. CAS No.	Occupational exposure limit value		Monitoring and observation processes	Peak limitation	Source
			Long term	Short term			
IOELV (EU)	Ethanediol	203-473-3 107-21-1	52 mg/m <sup>3</sup> , 20 ppm; skin	104 mg/m <sup>3</sup> , 40 ppm; skin			2000/39 /EC
AGW (DE)	Ethanediol	203-473-3 107-21-1	26 mg/m <sup>3</sup> , 10 ml/m <sup>3</sup> 2(l);DF G, EU, H, Y, 11				TRGS 900

**8.2 Exposure controls**

**Personal Protection**

**General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed. Wash hands before breaks and at the end of work. Change contaminated clothing.

**Eye/face protection:** Safety glasses

**Skin protection:**

Full contact: Glove material: Nitrile rubber

Glove thickness: 0.11 mm

Break through time: > 480 min

Splash contact: Glove material: Nitrile rubber

Glove thickness: 0.11 mm

Break through time: > 480 min

The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374.

This recommendation applies only to the product stated in this safety data sheet and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves.

**SECTION 9: Physical and chemical properties**

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

- (a) Appearance: Colorless to light yellow liquid (at 20°C and 101.3 kPa)
- (b) Odour: Odourless
- (c) Odour threshold: Does not apply, as substance is odourless
- (d) pH: 7.2 ± 0.2
- (e) Melting point / freezing point: No data available

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- (f) Initial boiling point and boiling range: No data available
- (g) Flash point: No data available
- (h) Evaporation rate: No data available
- (i) Flammability (solid, gas): Does not apply
- (j) Upper/lower flammability or explosive limits: Does not apply, mixture is not flammable
- (k) Vapour pressure: No data available
- (l) Vapour density: No data available
- (m) Relative density: 1.01 (at 20°C)
- (n) Solubility(ies): Does not apply
- (o) Partition coefficient: n-octanol/water: No data available
- (p) Auto-ignition temperature: No data available
- (q) Decomposition temperature: No data available
- (r) Viscosity: No data available
- (s) Explosive properties: Does not apply, mixture is not explosive
- (t) Oxidising properties: None

**9.2 Other information**

No additional information relevant to safe use of the mixture.

**SECTION 10: Stability and reactivity**

**10.1 Reactivity**

No specific test data related to reactivity available for this product or its ingredients

**10.2 Chemical stability**

The mixture is chemically stable under recommended conditions of storage, use and temperature.

**10.3 Possibility of hazardous reactions**

No hazardous reaction when handled and stored according to provisions.

**10.4 Conditions to avoid**

No specific conditions to avoid

**10.5 Incompatible materials**

No data available

**10.6 Hazardous decomposition products**

Does not decompose when used for intended uses.

**SECTION 11: Toxicological information**

**11.1 Information on toxicological effects**

**Acute toxicity: Mixture:**

No data available

**Acute toxicity: Ingredients:**

<b>Ethenediol</b>		
Oral	LD50	> 4500 mg/kg (rat)
Dermal	LD50	> 3500 mg/kg (mouse)
<b>Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1)</b>		
Oral	LD50	53 mg/kg (rat)

**Skin corrosion/irritation: Mixture**

No data available

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**Skin corrosion/irritation: Ingredients**

**Ethanediol:** No irritant effect

**Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1):** Skin - Rabbit, Result: Corrosive

**Serious eye damage/irritation: Mixture:**

No data available

**Serious eye damage/irritation: Ingredients:**

**Ethanediol:** Slight irritation

**Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1):** Eyes - Rabbit, Result: Corrosive to eyes

**Respiratory or skin sensitisation: Mixture:**

No data available

**Respiratory or skin sensitisation: Ingredients**

**Ethanediol:** No sensitising effects known.

**Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1):**  
SCL: Skin Corr. 1B; H314: C ≥ 0.6 %; Skin Irrit. 2; H315: 0.06 % ≤ C < 0.6 %; Eye Irrit. 2; H319: 0.06 % ≤ C < 0.6 %; Skin Sens. 1; H317: C ≥ 0.0015 %

**Germ cell mutagenicity:**

There are no data available for the ingredients.

**Carcinogenicity:**

There are no data available for the ingredients.

**Reproductive toxicity:**

There are no data available for the ingredients.

**Specific target organ toxicity (single exposure):**

There are no data available for the ingredients.

**Specific target organ toxicity (repeated exposure):**

There are no data available for the ingredients.

**Aspiration hazard:**

There are no data available for the ingredients.

**SECTION 12: Ecological information**

**12.1 Toxicity**

There are no data available for the ingredients.

**12.2 Persistence and degradability**

There are no data available for the ingredients.

**12.3 Bioaccumulative potential**

There are no data available for the ingredients.

**12.4 Mobility in soil**

There are no data available for the ingredients.

**12.5 Results of PBT and vPvB assessment**

This mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

**12.6 Other adverse effects:**

There are no data available for the ingredients.

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### **SECTION 13: Disposal considerations**

#### **13.1 Waste treatment methods**

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations.

#### **Product / Packaging disposal:**

Handle uncleaned containers like the product itself.

### **SECTION 14: Transport information**

#### **14.1. UN number**

**(ADR, RID, ADN, IMDG, IATA)**

Not applicable

#### **14.2. UN proper shipping name**

**(ADR, RID, ADN, IMDG, IATA)**

Not applicable

#### **14.3. Transport hazard class(es)**

**(ADR, RID, ADN, IMDG, IATA)**

Not applicable

#### **14.4. Packing group**

**(ADR, RID, ADN, IMDG, IATA)**

Not applicable

#### **14.5. Environmental hazards**

None

#### **14.6. Special precautions for user**

Not applicable

#### **14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not applicable

### **SECTION 15: Regulatory Information**

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

**Authorisations and/or restrictions on use:** None

Water Hazard Class 1, (Self-classification carried out according to VwVwS, 4. German Regulation)

#### **15.2 Chemical Safety Assessment**

For this mixture a chemical safety assessment has not been carried out.

### **SECTION 16: Other information**

Alteration to version 01: Trade name of preservative was deleted. Name of active substance of preservative is mentioned instead. No change in active substances or in concentrations.

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

#### **Abbreviations and acronyms:**

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

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

AGW: Arbeitsplatzgrenzwert (Occupational Exposure Limit Value, German regulation)

CAS No: Chemical Abstracts Service number

CLP: Classification Labelling and Packaging Regulation

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EC: European Commission  
 EC No: European Chemical number: EINECS, ELINCS or NLP  
 EEC: European Economic Community  
 EINECS: European Inventory of Existing Commercial Chemical Substances  
 ELINCS: European List of Notified Chemical Substances  
 EU: European Union  
 IATA: International Air Transport Association  
 IBC Code: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk  
 IMDG: International Maritime Dangerous Goods  
 IOELV: Indicative Occupational Exposure Limit Value  
 LD50: Lethal dose, 50%  
 MARPOL: Marine Pollution  
 NLP: No-longer Polymers  
 RID: Regulations concerning the International Carriage of Dangerous Goods by Rail  
 SCL: Specific Concentration Limit  
 TRGS: Technische Regeln für Gefahrstoffe (Technical rules for dangerous goods, German regulation)  
 UN: United Nations  
 VwVwS: Verwaltungsvorschrift wassergefährdende Stoffe (Regulation for water hazardous substances, German regulation)

**Full text of H-Statements referred to under section 3**

Acute Tox.	Acute toxicity
Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity
Eye Irrit.	Eye irritation
H301	Toxic if swallowed
H302	Harmful if swallowed
H311	Toxic in contact with skin
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H331	Toxic if inhaled
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
Skin Corr.	Skin corrosion
Skin Irrit.	Skin irritation
Skin Sens.	Skin sensitisation