# Tintometer<sup>®</sup> Group Water Testing



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# Safety data sheet according to 1907/2006/EC, Article 31

Printing date 16.11.2023

Version number 9 (replaces version 2)

Revision: 16.11.2023

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

- 1.1 Product identifier
- · Product name: Free Chlorine Buffer Solution
- · \_SDS valid from Lot: YB0A
- · Catalog number: 530223., 424476
- 1.2 Relevant identified uses of the substance or mixture and uses advised against
- · Application of the substance / the preparation: Reagent for water analysis
- · 1.3 Details of the supplier of the safety data sheet
- Supplier: Tintometer GmbH Schleefstraße 8-12 44287 Dortmund Made in Germany www.lovibond.com
- The Tintometer Limited Lovibond<sup>®</sup>House Sun Rise Way Amesbury Wiltshire SP4 7GR United Kingdom
- Informing department: e-mail: sds@lovibond.com Product Safety Department
- **1.4 Emergency telephone number:** +44 1235 239670 Languages: English

## **SECTION 2: Hazards identification**

· 2.1 Classification of the substance or mixture

- · Classification according to Regulation (EC) No 1272/2008
- The product is not classified as hazardous according to the GB CLP regulation.
- · 2.2 Label elements
- · Labelling according to Regulation (EC) No 1272/2008 Void
- · Hazard pictograms Void
- · Signal word Void
- · Hazard statements Void
- · 2.3 Other hazards No further relevant information available.
- · Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB), according to the criteria given in Annex XIII of Regulation (EC) No. 1907/2006. • Determination of endocrine-disrupting properties

The product does not contain substances with endocrine disrupting properties.

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

· 3.2 Mixtures

· Description: aqueous solution

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#### Product name: Free Chlorine Buffer Solution

#### · Dangerous components: Void

### SECTION 4: First aid measures

- · 4.1 Description of first aid measures
- · General information Instantly remove any clothing soiled by the product.
- · After inhalation Supply fresh air.
- · After skin contact Instantly wash with water and soap and rinse thoroughly.
- · After eye contact
- Rinse opened eye for several minutes under running water (at least 15 min). If symptoms persist, consult doctor.
- After swallowing
- Rinse out mouth and then drink 1-2 glasses of water.
- In case of persistent symptoms consult doctor.
- 4.2 Most important symptoms and effects, both acute and delayed: after swallowing of large amounts:
- vomiting
- disorder of electrolyte balance

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 agents Use fire fighting measures that suit the environment.
- 5.2 Special hazards arising from the substance or mixture

The product is not combustible. Formation of toxic gases is possible during heating or in case of fire.

- Can be released in case of fire:
- Carbon monoxide (CO) and carbon dioxide (CO<sub>2</sub>)
- 5.3 Advice for firefighters
- · Protective equipment:
- Wear self-contained breathing apparatus.
- Wear full protective suit.
- · Additional information

Collect contaminated fire fighting water separately. It must not enter drains.

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

Ambient fire may liberate hazardous vapours.

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

- · 6.1 Personal precautions, protective equipment and emergency procedures
- · Advice for non-emergency personnel: No special measures required.
- · Advice for emergency responders: Protective equipment: see section 8

#### · 6.2 Environmental precautions:

- Do not allow product to reach sewage system or water bodies.
- Dilute with much water.
- · 6.3 Methods and material for containment and cleaning up:
- Ensure adequate ventilation.
- Absorb with liquid-binding material (sand, diatomite, universal binders).
- Dispose of contaminated material as waste according to item 13.
- 6.4 Reference to other sections
- See Section 8 for information on personal protection equipment.
- See Section 13 for information on disposal.

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

- · 7.1 Precautions for safe handling
- · Advice on safe handling: No special precautions necessary if used correctly.
- · Hygiene measures:

The usual precautionary measures should be adhered to general rules for handling chemicals. Wash hands during breaks and at the end of the work.

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#### Product name: Free Chlorine Buffer Solution

Do not eat, drink or smoke when using this product.

- 7.2 Conditions for safe storage, including any incompatibilities
- Requirements to be met by storerooms and containers: Store in cool location.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions:
- Protect from heat and direct sunlight.
- Protect from the effects of light.
- Protect from humidity and keep away from water.
- Recommended storage temperature: 20°C +/- 5°C
- · 7.3 Specific end use(s) No further relevant information available.

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

- · 8.1 Control parameters
- · Components with limit values that require monitoring at the workplace:
- The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- · Additional information: The lists that were valid during the compilation were used as basis.
- · 8.2 Exposure controls
- · Engineering measures:
- Technical measures and appropriate working operations should be given priority over the use of personal protective equipment. See item 7.
- · Individual protection measures, such as personal protective equipment
- Protective clothing should be selected specifically for the workplace, depending on concentration and quantity of the hazardous substances handled.
- · Eye/face protection
- Safety glasses
- use against the effects of fumes / dust
- Use safety glasses that have been tested and approved in accordance with government standards such as EN 166. Hand protection
- Preventive skin protection by use of skin-protecting agents is recommended.
- After use of gloves apply skin-cleaning agents and skin cosmetics.
- Material of gloves
- nitrile rubber, NBR
- Recommended thickness of the material:  $\geq 0.11$  mm
- · Penetration time of glove material
- Value for the permeation: Level = 1 ( < 10 min )
- The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
- · Other skin protection (body protection): Protective work clothing.
- · Breathing equipment: Use breathing protection against the effects of fumes/dust/aerosol.
- · Recommended filter device for short term use: Filter P1
- · Environmental exposure controls Do not allow product to reach sewage system or water bodies.

· 9.1 Information on basic physical and chemical properties		
Physical state	Fluid	
Form:	Solution	
Colour:	Colourless	
Odour:	Odourless	
Odour threshold:	Not applicable.	
Melting point/Freezing point:	Not determined.	
Boiling point or initial boiling point and bo	biling range Not determined.	
Flammability	The product is not combustible.	
Explosive properties:	Product is not explosive.	
Lower and upper explosion limit		
Lower:	Not applicable.	
Upper:	Not applicable.	
Flash point:	Not applicable.	

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#### Product name: Free Chlorine Buffer Solution

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· Auto-ignition temperature:	Not applicable.	
· Decomposition temperature:	Not determined.	
pH at 20°C	6.7	
· Kinematic viscosity	Not determined.	
Solubility		
Water:	Fully miscible	
Partition coefficient n-octanol/water (log value)	Not applicable (mixture).	
Vapour pressure:	Not determined.	
Density and/or relative density		
Density at 20°C:	~1.1 g/cm³	
Relative density:	Not determined.	
Relative gas density	Not determined.	
· Particle characteristics	Not applicable (liquid).	
<sup>•</sup> 9.2 Other information		
Information with regard to physical hazard classes	6	
Corrosive to metals	Void	
Other safety characteristics		
Oxidising properties:	none	
Additional information		
Solids content:	5-15 %	
Solvent content:		
Organic solvents:	0 %	
· Water:	> 85 %	

## **SECTION 10: Stability and reactivity**

- · 10.1 Reactivity see section 10.3
- **10.2 Chemical stability** Stable at ambient temperature (room temperature).
- 10.3 Possibility of hazardous reactions No further relevant information available.
- · 10.4 Conditions to avoid Strong heating (decomposition)
- **10.5 Incompatible materials:** No further relevant information available.
- · 10.6 Hazardous decomposition products: see section 5

## **SECTION 11: Toxicological information**

- · 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
- · Acute toxicity Based on available data, the classification criteria are not met.
- · Skin corrosion/irritation Based on available data, the classification criteria are not met.
- · Serious eye damage/irritation Based on available data, the classification criteria are not met.
- · Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- · Reproductive toxicity Based on available data, the classification criteria are not met.
- STOT (specific target organ toxicity) -single exposure Based on available data, the classification criteria are not met.
- STOT (specific target organ toxicity) -repeated exposure Based on available data, the classification criteria are not met.
- · Aspiration hazard Based on available data, the classification criteria are not met.
- Additional toxicological information:
  - When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.
  - 11.2 Information on other hazards
- Endocrine disrupting properties The product does not contain substances with endocrine disrupting properties.
- · Other information No further relevant information available.

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#### Product name: Free Chlorine Buffer Solution

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#### **SECTION 12: Ecological information**

· 12.1 Toxicity

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- · Aquatic toxicity: No further relevant information available.
- 12.2 Persistence and degradability No further relevant information available.
- · 12.3 Bioaccumulative potential No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- 12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB), according to the criteria given in Annex XIII of Regulation (EC) No. 1907/2006.

- **12.6 Endocrine disrupting properties** The product does not contain substances with endocrine disrupting properties.
- **12.7 Other adverse effects** Avoid transfer into the environment.

· Water hazard:

Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system. Must not reach sewage water or drainage ditch undiluted or unneutralised.

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

- · 13.1 Waste treatment methods
- · Recommendation
- Disposal must be made according to official regulations.

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

· European waste catalogue

16 05 09 discarded chemicals other than those mentioned in 16 05 06, 16 05 07 or 16 05 08

- · Uncleaned packagings:
- Recommendation: Disposal must be made according to official regulations.
- · Recommended cleaning agent: Water, if necessary with cleaning agent.

SECTION 14: Transport information		
<ul> <li>14.1 UN number or ID number</li> <li>ADR, IMDG, IATA</li> </ul>	Void	
<ul> <li>14.2 UN proper shipping name</li> <li>ADR, IMDG, IATA</li> </ul>	Void	
· 14.3 Transport hazard class(es)		
· ADR, IMDG, IATA · Class	Void	
<ul> <li>14.4 Packing group</li> <li>ADR, IMDG, IATA</li> </ul>	Void	
· 14.5 Environmental hazards:	Not applicable.	
<ul> <li>14.6 Special precautions for user</li> </ul>	Not applicable.	
<ul> <li>14.7 Maritime transport in bulk according to IM instruments</li> </ul>	O Not applicable.	
· Transport/Additional information:	Not dangerous according to the above specifications.	

## **SECTION 15: Regulatory information**

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

#### · Poisons Act UK

Regulated explosives precursors	
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None of the ingredients is listed.

#### Regulated poisons

None of the ingredients is listed.

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Reportable e	(Contd. of pag xplosives precursors
	gredients is listed.
Reportable p	gredients is listed.
	greaterits is listed.
Regulation (E	EU) 2019/1148 on the marketing and use of explosives precursors not regulated
Regulation (E	EU) No 649/2012 concerning the export and import of hazardous chemicals (PIC)
None of the in	gredients is listed.
Regulation (E technology:	EC) No 1334/2000 setting up a Community regime for the control of exports of dual-use items and
None of the in	gredients is listed.
Regulation (E	EC) No 273/2004 on drug precursors
None of the in	gredients is listed.
Regulation (E	EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countrie irsors
None of the in	gredients is listed.
Regulation (	EC) No 1005/2009 on substances that deplete the ozone layer:
None of the in	gredients is listed.
REGULATION	N (EU) 2019/1021 on persistent organic pollutants (POP)
None of the in	gredients is listed.
LIST OF SUB	STANCES SUBJECT TO AUTHORISATION (ANNEX XIV)
None of the in	gredients is listed.

This product does not contain any substances of very high concern above the legal concentration limit of  $\ge 0.1\%$  (w / w). Substances of very high concern (SVHC) according to UK REACH

This product does not contain any substances of very high concern above the legal concentration limit of  $\geq 0.1\%$  (w / w).

· Directive 2012/18/EU (SEVESO III):

· Named dangerous substances - ANNEX I None of the ingredients is listed.

Information about limitation of use: Not required.

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

## **SECTION 16: Other information**

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

This Safety Data Sheets is in compliance with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) 2020/878.

• Training hints Provide adequate information, instruction and training for operators.

#### · Abbreviations and acronyms:

STOT: specific target organ toxicity

SE: single exposure

RE: repeated exposure

EC50: half maximal effective concentration

IC50: half maximal inhibitory concentration NOEL or NOEC: No Observed Effect Level or Concentration

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

· Sources Data arise from safety data sheets, reference works and literature.

\* Data compared to the previous version altered.