TOPAZ CL4

Description:

TOPAZ CL4 is a powerful chlorinated cleaning agent to remove fatty, greasy and protein residues with bleaching effect for daily use in the food and beverage industry

Product strengths:

- Conventional foam properties
- Superior cleaning performance
- Easy to rinse

Properties

Concentrate	**Appearance:**	clear, yellow liquid *
	Storage stability:	-15 - 30 °C
	Solubility:	at 20 °C miscible with water in any proportion
	Density:	1.16 – 1.20 g/cm³ (at 20 °C)
	P content:	0.08 %
	N content:	0.17 %
	S content:	0.00%
	COD:	102 - 122 mg O_2/g
	Flash point:	Not applicable
Application solution	**pH:**	11.6 – 12.0 (1 %, 20 °C, deionized water)
	Conductivity:	5.3 mS/cm (1 %, 20 °C, deionized water)
	Titration:	6.0 – 7.0 % NaOH * (50 ml; 1 % solution; 0.5 n HCl; phenolphthalein)

* Parameters subject to incoming goods control

Material compatibility:

TOPAZ CL4 is, under the application conditions described below, compatible with as

- **Metals** austenitic CrNi steels (quality at least DIN 1.4301 = AISI 304),
- **Plastics** HD-PE, PP, rigid PVC
- **Seals** EPDM
- **Others** ceramic surfaces
-

Application

TOPAZ CL4 is a universal foam cleaner, suitable for use in the entire food industry.

1. **Pre-rinse** with water for removal of rough soil
2. **Foam** all surfaces with a 2 - 5 % **TOPAZ CL4** solution Contact time: 10 - 20 minutes
3. **Final rinse** with water, ensuring all foam and soil is completely removed

Application System

For the application of **TOPAZ CL4** we recommend the **Ecolab Hybrid** range of open plant cleaning equipment which provides:

* Foam, disinfection and rinse functionality
* Stationary and mobile systems for full flexibility
* Space saving, robust, hygienic designs
* High operator safety
* Special equipment for fixed and automated cleaning systems (e.g. smoke chambers, fillers, conveyor belt cleaning

Important indications!

- Effluent, containing chemicals, must only be discharged according to the local regulations
- Chemicals containing effluent must only be discharged into the biological treatment station after passing the neutralization- and buffer tank
- When discharging chemically polluted effluent, it is essential to pay specific attention to the bacteria toxicity of this water. This is especially important when dealing with biocide containing effluents and anaerobic sewage plants
- In case of doubt please seek advice from our technical service

Monitoring

Concentration determination

- **Titration**

Decomposition of existing chlorine by addition of a spatula point of sodium thiosulphate:

Receiving flask:	50 ml application solution
Titration solution:	0.5 n HCl
Indicator:	Phenolphthalein
Titration factor:	0.67

Volume added in ml x 0.67 = (by wt.) % **TOPAZ CL4**

Safety

The relevant hazards identifications of **TOPAZ CL4** are given in the EC Safety Data Sheet. If any questions arise in this context, please contact your Ecolab representative.

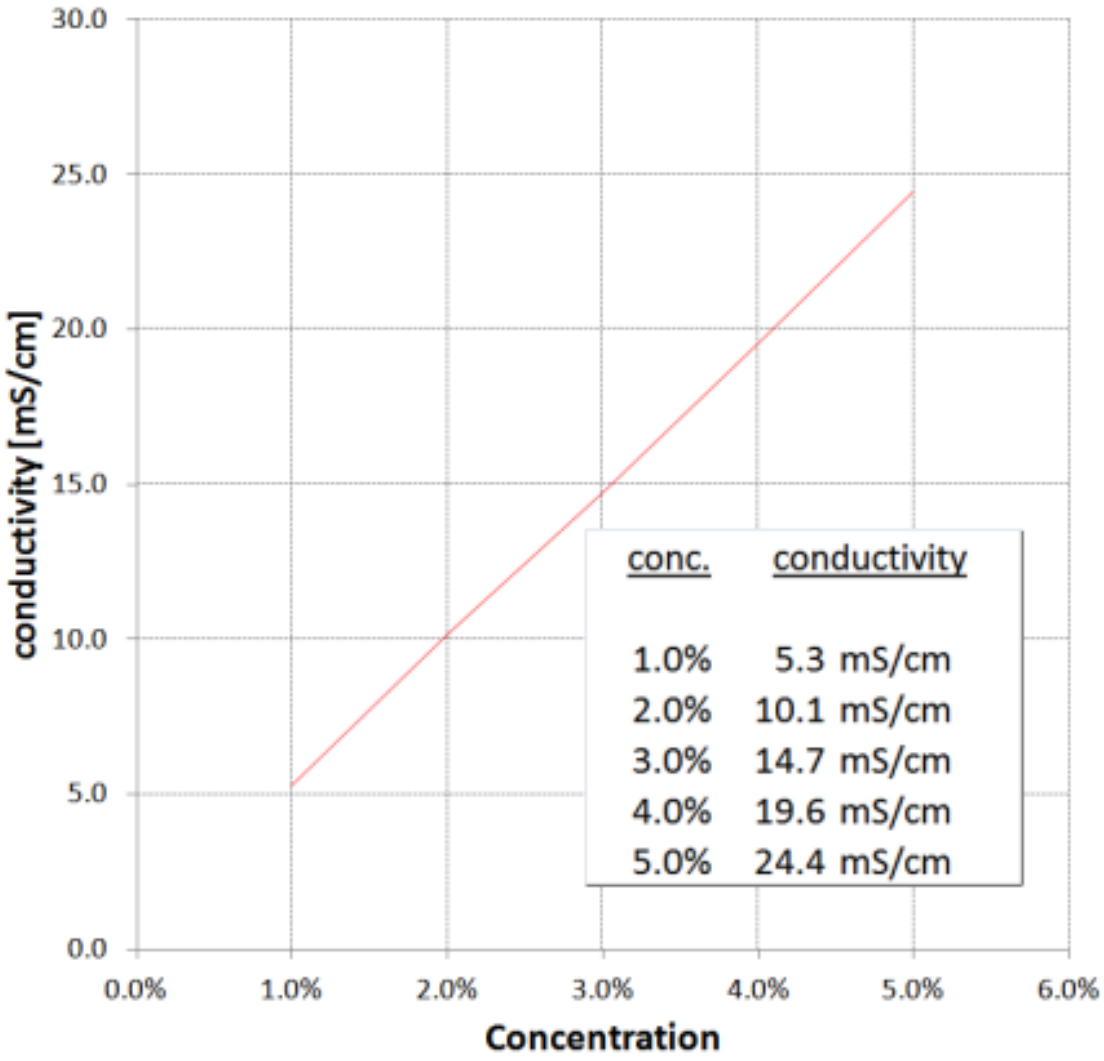
INDICATION!

During cleaning and sanitizing operations misting can occur. These aerosols contain water and the applied chemical. Inhalation of such aerosols must be avoided. Respiratory protection might be required depending on the specific use conditions during operation.

Topaz CL4

Spec. Conductivity (20°C, 0°dH)

Temperature coefficient: α 2.11%/°C



The statements, information and data presented herein are believed to be accurate and reliable. The information describes the characteristic features of **TOPAZ CL4** in ordinary use but cannot be taken as a guarantee, express warranty or implied warranty for the suitability for a particular purpose and shall not extend mandatory warranty rights (if any). The specifications and performance may vary subject to the operational conditions. Since numerous parameters will influence product performance and applicability, this information does not exonerate the user from liability with respect to the suitability of the product and the appropriate safety measures to be taken. Moreover, a possible infringement of patent rights must be avoided at all times.

(Version September 2020)

Ecolab Europe GmbH
Richtistr. 7
CH-8304 Wallisellen
www.ecolab.com