TOPAZ MD2

Description:

TOPAZ MD2 is a mild alkaline cleaning agent to remove fatty, greasy and protein residues for the food, beverage and dairy industries

Product strengths:

- Conventional foam properties
- Light to medium soil level
- P-free
- Easy to rinse
- Recommended for centralized foam systems with pre-diluted application solutions

Properties

Concentrate	**Appearance:**	clear, light yellow liquid *
	Storage stability:	-5 - 40 °C
	Solubility:	at 20 °C miscible with water in any proportion
	Density:	1.060 – 1.080 g/cm³ (at 20 °C)
	P content:	0 %
	N content:	0.30 %
	S content:	0.35 %
	COD:	120 - 150 mg O_2/g
	Flash point:	Not applicable
Application solution	**pH:**	11.7 – 12.1 (1 %, 20 °C, deionized water)
	Conductivity:	2.52 mS/cm (1 %, 20 °C, deionized water)
	Titration:	2.90 – 3.15 % Na_2O * (50 ml; 1 % solution; 1 n HCl; phenolphthalein)

* Parameters subject to incoming goods control

Material compatibility:

TOPAZ MD2 is, under the application conditions described below, compatible with

- **Metals** — austenitic CrNi steels (quality at least DIN 1.4301 = AISI 304), mild steel (St 37/2), copper, brass and galvanized surfaces
- **Plastics** — PE, PP, rigid-PVC
- **Seals** — FKM, EPDM
- **Others** — ceramic surfaces

Application

TOPAZ MD2 is a 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 MD2** 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 MD2** 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

TOPAZ MD2 is suitable for use in pre-diluted systems! The hardness of the water used for dilution can be up to 8°dH / 142 ppm $CaCO_3$ to prevent any scale formation in the pipes. Nevertheless, it is recommended to run a clear solubility test with customer's water.
For individual product recommendations please consult our Ecolab representative!

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**

Receiving flask:	10 ml application solution
Titration solution:	0.1 n HCl
Indicator:	Phenolphthalein
Titration factor:	0.97

Volume added in ml x 0.97 = (by wt.) % **TOPAZ MD2**

- **Conductivity**

Specific conductivity of **TOPAZ MD2**

Safety

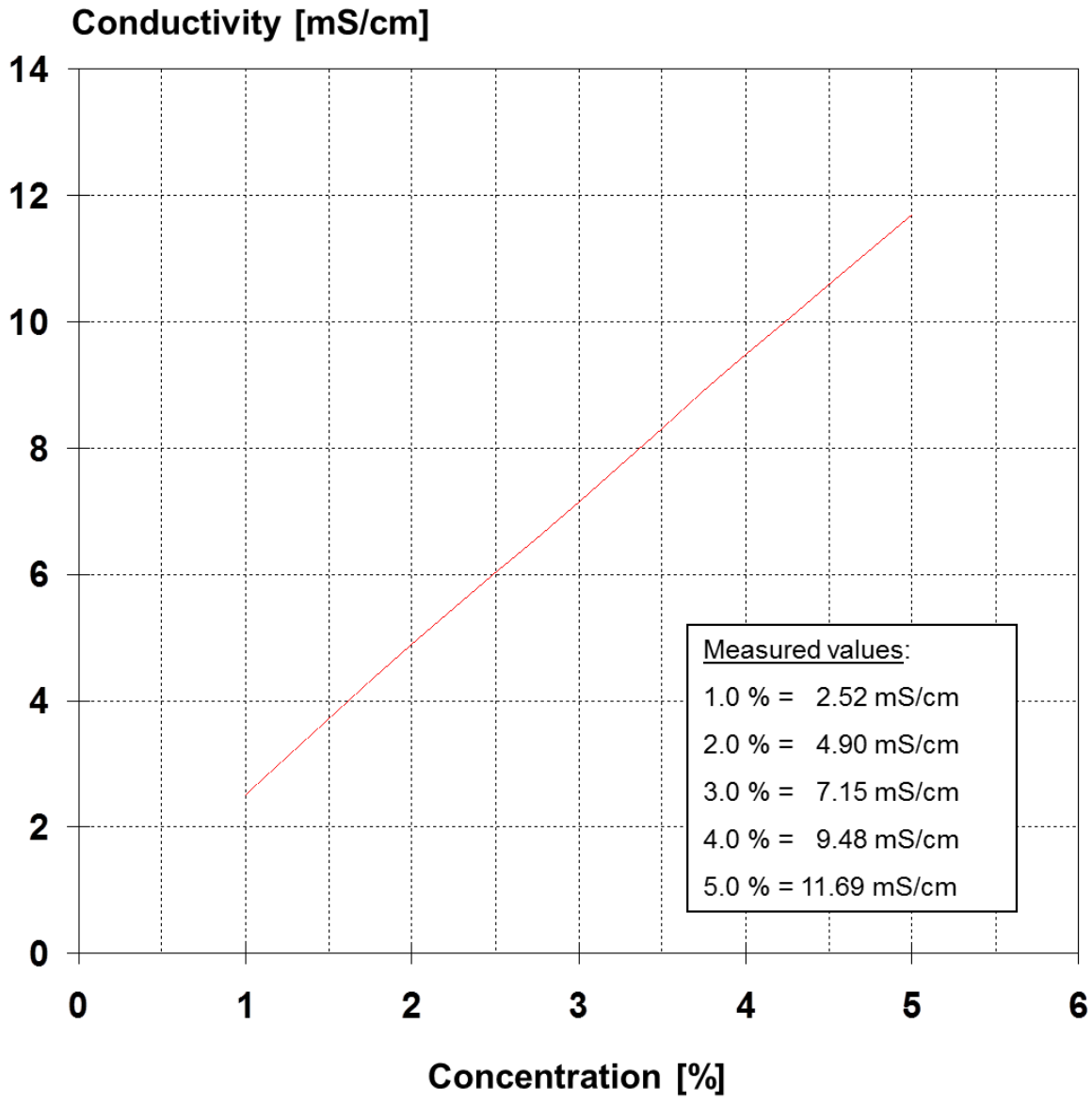
The relevant hazards identifications of **TOPAZ MD2** are given in the EC Safety Data Sheet. If any questions arise in this context please contact your Ecolab representative.

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.

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Spec. Conductivity (25 °C, 0 °d)
Temperature coefficient: α 1.77 %/°C



The statements, information and data presented herein are believed to be accurate and reliable. The information describes the characteristic features of **TOPAZ MD2** 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)

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