Mip® CA

Description:

Strong alkaline cleaning agent for CIP applications in the food industry.

Product strengths:

- high cleaning efficacy
- suitable for any water hardness
- suitable for single phase cleaning on cold surfaces

Properties

Concentrate	**Appearance:**	clear, slight yellowish liquid
	Storage stability:	-5 – 40°C
	Solubility:	at 20 °C miscible with water in any proportion
	Density:	1.38 – 1.44 g/cm³ (at 20 °C)
	P content:	0.04 – 0.08 %
	N content:	0.04 – 0.06 %
	COD:	20 - 40 mg O_2/g
Application solution	**pH:**	12.2 – 12.9 (1 %, 20 °C, deionized water)
	Conductivity:	19.3 mS/cm (1 %, 20 °C, deionized water)
	Titration:	8.6 – 9.2 ml * (50 ml 1 % solution; 0.5 n HCl; phenolphthalein)
	Foam characteristics:	non foaming suitable for CIP-systems

* Parameters subject to incoming goods control

Material compatibility: **Mip CA** is, under the application conditions described below, compatible with

- **Metals** — steel, austenitic CrNi steels (quality at least DIN 1.4301 = AISI 304)
- **Plastics** — alkali-resistant plastics like PE, PP, PTFE, PVC
- **Seals** — EPDM, NBR, PTFE

Application

Mip CA is suitable for any automatic cleaning- and CIP-processes. It is suitable for any water hardness and for the removal of common soil.

<u>Brewing and beverage industry</u>:

- **Tanks, pipelines, filters, KEGs and containers**

  Concentration: 0.3 - 1.7 %
  Temperature: cold - 80 °C
  Contact time: application-specific

- **PC-water-bottles (e.g. 5 Gallon-bottles)**

  Concentration: 0.3 – 0.9 %
  Temperature: 40 – 70 °C
  Contact time: application-specific
  (for tempered PC-bottles only)

<u>Dairy industry</u>:

- **Cream ripening vats, separator disks, tanks, pipelines**

  Concentration: 0.3 – 1.1 %
  Temperature: 50 - 80 °C
  Contact time: application-specific

<u>One-phase/two-phase cleaning with **Mip CA**</u>:

With the application of **Mip CA** in regard to the a. m. cleaning processes, an additional acid cleaning is not required in most cases, depending on the present water hardness.

<u>Continuous washing plants</u>:

- **Bottle carriers, transport and pool boxes, conveyor vessels**

  Concentration: 0.3 - 1.1 %
  Temperature: 50 - 60 °C
  Contact time: application-specific

After cleaning rinse thoroughly with fresh water of drinking water quality.

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:	50 ml application solution
Titration solution:	0.5 n HCl
Indicator:	Phenolphthalein
Titration factor:	0.112

Volume added in ml 0.5 n HCl x 0.112 = (by wt.) % **Mip CA**

- **Conductivity**

Specific conductivity of **Mip CA**

Application System

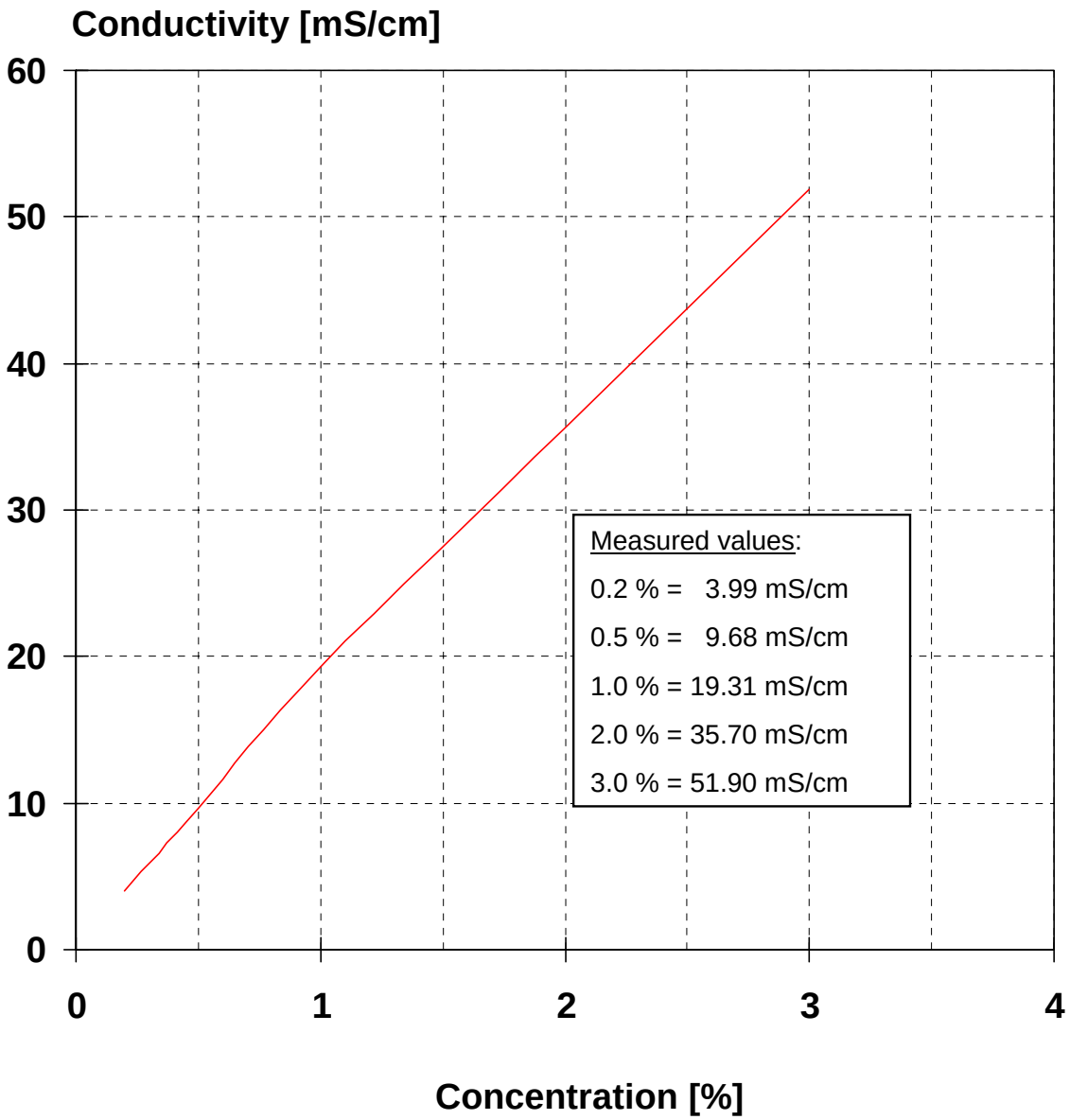
For the application of **Mip CA** we recommend a volume-proportional dosage to the water flow cyclic and conductivity controlled.
We recommend the use **Elados-EMP**-diaphragm pumps for metering and for control and phase separation of the **Mip CA** solution the use of **LMIT 09** inductive conductivity meters.

Safety

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

Mip CA

Spec. Conductivity (20 °C, 0 °d)
Temperature coefficient: α 1,7 %/°C



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