Mip® SP

Description

Liquid, high alkaline cleaning agent for the food industry

Product strengths:

- excellent foam depression > 40 °C
- high efficacy at strong contaminant loading
- excellent calcium binding properties
- storage stability down to -15°C

Properties

Concentrate	**Appearance:**	clear to cloudy, yellowish brown liquid *
	Storage stability:	-15 to 40 °C
	Solubility:	at 20 °C miscible with water in any proportion
	Density:	1.315 - 1.325 g/cm³
	Refraction index n_D20:	1.4070 – 1,4085
	P content:	0.06 %
	N content:	0.23 %
	COD:	65 - 85 mg O_2/g
	Flash point:	> 100 °C
Application solution	**pH:**	12.5 - 13.1 (1 %, 20 °C, deionized water)
	Conductivity:	14.4 mS/cm (1 %, 25 °C, deionized water)
	Titration:	6.2 - 6.5 ml * (50 ml 1 % solution; 0.5 n HCl; phenolphthalein)
	Foam characteristics:	non foaming > 40 °C, suitable for CIP-systems

* Parameters subject to incoming goods control

Material compatibility:

Mip SP 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, PVDF, PVC
- **Seals** — commonly used seals like EPDM, NBR, PTFE

Application

Mip SP is a high alkaline, surfactant-containing cleaning agent, especially suitable for the removal of fat- and protein residues as well as other organic soil.
With excellent calcium-binding properties, **Mip SP** is suitable for the single-phase cleaning of plate pasteurizers, tanks, pipelines and filling machines in the dairy industry.

Concentration:	0.5 - 3.0 %
Temperature:	40 - 90 °C
Contact time:	10 - 60 minutes

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:	0.159

Volume added 0.5 n HCl x 0.159 = (by wt.) % **Mip SP**

- **Conductivity**

Specific conductivity of **Mip SP**

Concentration control

The dosage of **Mip SP** can be carried out volume-proportional to the water flow cyclic and conductivity-controlled.
We recommend the use of **P3-Elados-EMP**-diaphragms pumps for metering and for control and phase separation of the **Mip SP**-solution the use of **P3-LMIT 08** inductive conductivity meters.

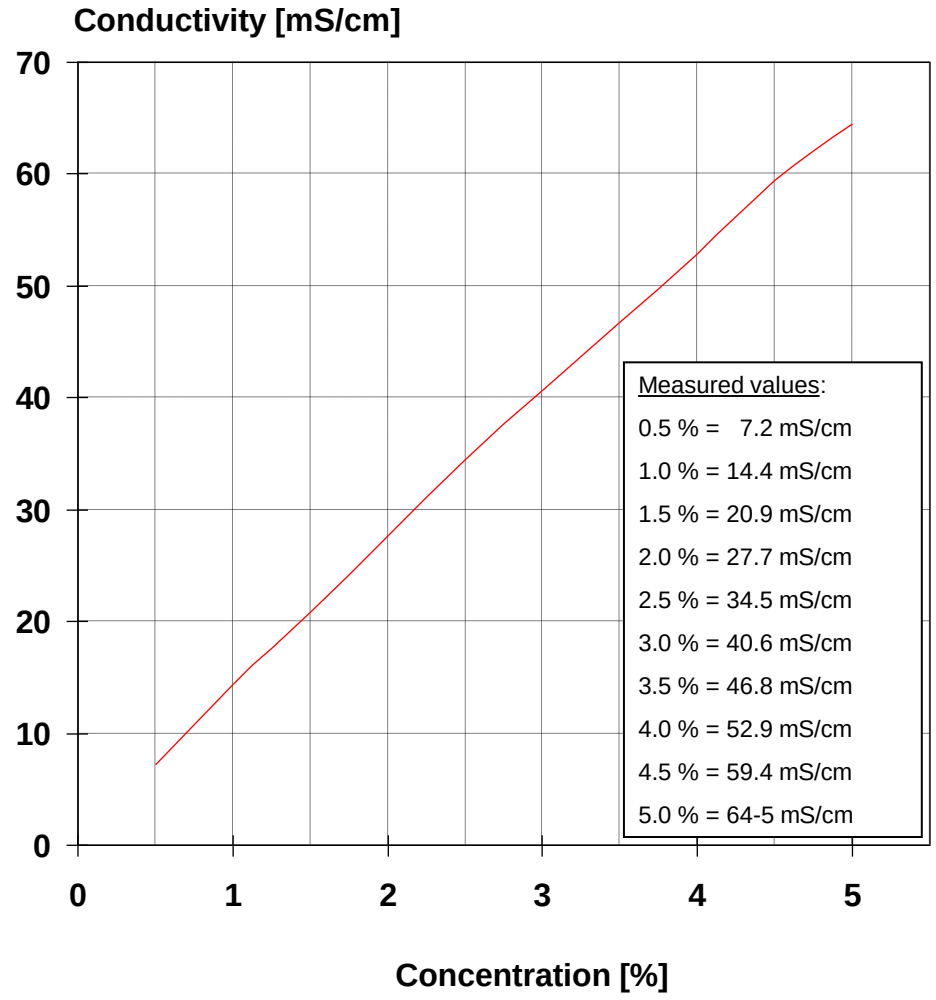
Our P3-System brochures are available on request.

Safety

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

Mip SP

Spec. Conductivity (25 °C, 0 °d)
Temperature coefficient: α 1.89 %/°C



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

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