

Lerades[®] C-MA

liquid, chlorine-alkaline cleaning agent

Product description: **Lerades[®] C-MA** is an effective, chlorine-alkaline cleaning agent for removing organic residues in plants, tanks and piping etc. used in the food industry.

Lerades[®] C-MA is optimized for use in modern milking machines and milk cooling tanks and meets the requirements of the German Agricultural Society.

Lerades[®] C-MA is particularly successful used in continuous-flow washing machines for crates, in CIP-systems and for general surface cleaning of alkali- and oxidation-resistant surfaces. With this combination of ingredients a good swelling of dirt and dirt removal is achieved. Special dispersants minimize deposits in the washing liquor.

Lerades[®] C-MA can be dosed by conductivity-controlled pumps.

- excellent cleaning effect
- suitable for CIP application
- foam free
- controllable by conductivity

Technical data:	Appearance:	liquid
	Colour:	light yellow
	Density:	approx. 1.16 g/cm ³
	pH value (10 g/l):	approx. 12.2
	Sensitivity to cold:	from +2°C

Important ingredients: Sodium hypochlorite, sodium hydroxide, potassium hydroxide, complexing agents, dispersants

Material compatibility: Metals:
The ready-to-use solution is suitable for stainless steel, not suitable for non-ferrous metals.

Plastics:
The ready-to-use solution is suitable for alkali-resistant plastics e.g. FEP, PSU, PTFE, PVDF and SAN.

All other materials require pretests on a hidden area.

When using these products, all applicable safety regulations for the use of chemicals must be observed. For storage information, danger specifications and safety regulations, please refer to the applicable safety data sheets. Application solutions and product remnants must be discarded in compliance with official regulations. The information given reflects our previous experience. With regard to varying operational conditions, this information is noncommittal and to be used as advice only. Therefore, we assume no liability whatsoever, including claims from third parties.

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TECHNICAL INFORMATION



Safety: For relevant hazard and precautionary statements please refer to the material safety data sheet (MSDS).

Environmental impact (waste water) behaviour: We are not aware of negative influence to the environment if the product is used according to our instructions and respecting local legislations and regulations, where applicable.

Storage instructions: Store in well closed containers in a cool and dry place.
Prevent from frost and heat.
Do not expose to direct sunlight.

Application:

Milking machine cleaning:

Concentration: 0.5% at water hardness up to 20°dH
Temperature: 40 – 70°C
Time: 10 – 15 min.

Crate washing:

Concentration: 0.2 – 0.5%
Temperature: 55 – 65°C
Time: plant-specific

CIP cleaning:

Concentration: 2.0 – 5.0%
Temperature: 55 – 65°C
Time: 5 – 15 min.

In order to solve milk fat, the return temperature in milking machines should not fall below 40°C. At water hardness over 20°dH an increase of concentration of 0.1% per 10°dH is recommended.

The exact dosage for each application is depending on the local circumstances and apparatus conditions. It should be determined with our competent field staff.

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TECHNICAL INFORMATION



According to governmental regulations, product-contaminated surfaces which come into direct contact with any kind of food have to be rinsed with water of drinking water quality until cleaning agents and disinfectants are completely removed.

Absolutely avoid accumulation of chloride ions due to product residue or use of highly chloride-containing water for reasons of corrosion. Do not allow the product to dry.

Do not use together with acids. Danger of chlorine gas formation!

For professional use only.

Concentration monitoring:

Required reagents: phenolphthalein solution
 hydrochloric acid (0.1 mol/l)
 solid sodium thiosulphate

Procedure:

Add about 1 g of solid sodium thiosulphate to 100 ml cleaning solution. After complete dissolution add 3 – 4 drops phenolphthalein solution and titrate with hydrochloric acid (0.1 mol/l) from red to colourless.

Product factor: 0.067

Used ml hydrochloric acid x 0.067 = % Lerades® C-MA

An alternative method to determine the concentration of the application solution is by measuring its conductivity.

Further information is available on request.

For exact determination of concentration the chlorine content can be measured.

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