

elma tec clean S1

Description

elma tec clean S1 is a liquid, mildly acid cleaning concentrate suitable for the slightly acidic ultrasonic cleaning of non-ferrous and light metals, stainless steels, glass, plastics as well as for the passivation of surfaces of stainless and chromium-containing steels. Brass and copper alloys are brightened up.

Removes polishing media, mineral grease and oil, oxide layers (e.g. verdigris), rust and lime.

The passivating action is based on the removal of iron atoms by dissolution from the surface and the increase of relative chromium content at the surface.

Application and Dosage

- Cleaning in the ultrasonic bath: Dosage: 1 - 5 % with water • Temperature: 30-80 °C • Cleaning time: about 2 min.
- For rust-sensitive parts use rinsing bathes with added agent elma-KS, 0.1 vol-%, as corrosion protecting agent immediately after finishing the cleaning step.
- Passivation: Dosage: 10 - 20 % • Temperature: 30-80 °C • Passivation time: 10-30 min. (e. g. AISI 316: 20 min. at 70 °C).
- We recommend: Passivation or acid cleaning process after alkaline cleaning in all cases of contamination with natural (vegetable or animal) oils or greases.

Safety Recommendations

elma tec clean S1 is classified as hazardous according to the Regulation (EC) No 1272/2008 [GHS] (eye irritation).

Observe also with respect to this the hints indicated in the safety data sheet and always handle chemicals with care.

Physical-chemical characterisation

- Density: 1.082 g/ml • pH (concentrate): 1.6.
- Ingredients according to Annex VII, A, Regulation (EC) No 648/2004 on detergents: <5 % anionic surfactants, <5 % non-ionic surfactants, benzisothiazolinone (<5 ppm), methylisothiazolinone (<5 ppm).
- Does not contain phosphates or silicates. Contains citric acid.





Disposal

The surfactants in our product meet the criteria for biodegradation as laid down in Annex III of the Regulation (EC) No 648/2004 on detergents.

The used cleaning solution can be fed into the public sewage system after neutralisation; observe the local pH limit values and make sure that the contamination contained in the used cleaning solution complies with the local sewage regulations.

European waste code: 20 01 30, „detergents other than those mentioned in 20 01 29“.

Volumes, Storage and Transport

- Available volumes: 2.5 l HDPE-can  8000162, 10 l HDPE-can  8000161, 25 l HDPE-can  8000160 and 200 l barrel  8000163.
- Store in closed original container at a temperature between -5 °C and +30 °C, protected from heat and direct solar radiation. Do not store with alkalis.
- Shelf life: 3 years from date of production (see lot on label).
- Classification for all means of transport: no hazardous material.

Accessories

- Tap (outlet tap): for 5 / 10 l cans  8000003927 • for 25 l can  8000003928.
- Dosing cup: 250 ml vol./5 ml-scale  8000643 • 1000 ml vol./10 ml-scale  8000647.