

elma clean 110 (EC 110)

Description

elma clean 110 (EC 110) is a liquid, alkaline ultrasonic cleaning concentrate. Suitable for the cleaning of metal, ceramic, quartz, rubber as well as plastic surfaces. Particular for the cleaning of silicon wafers after mechanical treatment (sawing).

Removes metal oxides, stains of quartz and tenacious organic contaminations, such as scaled and gummy oil and grease, wax, residual lacquer and paint.

Not suitable for light metals (Al, Mg and their alloys). Not suitable for plastics that are susceptible for stress cracking - check compatibility before use.

Application and Dosage

- Ultrasonic bath:
Dosage: 3-5 % in water • Temperature: 50-80 °C • Cleaning time: 3-10 min.
- Thoroughly rinse with water and dry.
- For temporary corrosion protection of get rusty pieces use elma-KS - 0.1 % - within the cleaning bath or rinse bathes additionally.

Safety Recommendations

elma clean 110 (EC 110) is classified as hazardous according to the Regulation (EC) No 1272/2008 [GHS] (skin corrosive and serious eye damage, corrosive to metals [aluminium]).

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

Physical-chemical characterisation

- Density: 1.24 g/ccm • pH (1 % solution): 12.4.
- Ingredients according to Annex VII, A, Regulation (EC) No 648/2004 on detergents:
<5 % anionic surfactants, <5 % non-ionic surfactants, <5 % phosphonates.
- Does not contain phosphates and silicates. Emulsifying.

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. For neutralisation we recommend: For 1 kg of the concentrate use approx. 715 ml 60 % acetic acid or approx. 730 g water-free citric acid in an ultrasonic bath – do not use hydrochloric or sulfuric acid in ultrasonic bathes!

European waste code: 20 01 29*, „detergents containing dangerous substances“.

Volumes, Storage and Transport

- Available volumes: 5 l HDPE-can [REF](#) 5807910000, 10 l HDPE-can [REF](#) 8000300 and 25 kg HDPE-can [REF](#) 5807900000, 240 kg barrel [REF](#) 5820200000.
- 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 acids.
- Shelf life: 3 years from date of production (see lot on label).
- Classification for all means of transport: class 8, UN 1824.

Accessories

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