elma product info

elma clean 110 (EC 110)

LIQUID, ALKALINE ULTRASONIC CLEANING CONCENTRATE For metal, ceramic, plastics, silicium wafer and quarz-surfaces

Description

Suitable for the cleaning of:

- Metal, ceramic and quarz surfaces,
- surfaces of numerous plastic materials,
- rubber surfaces.
- particulary for the cleaning of silicium wafers after mechanical treatment (sawing).

Removes metal oxides, stains of guarz 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

Dosage: 3 - 5% in water, temperature: 50 - 90%, duration: 3 - 10 min in ultrasonic bath. Thoroughly rinse with water and dry.

For temporary corrosion protection of get rusty pieces use 0.1% "elma KS" 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, EC-Regulation 648/2004 (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 cleaning bath can be fed into the public sewage system after neutralisation; check the contamination contained in the used solution (observe the local pH and 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: 10 litre and 25 kg HDPE-can; 240 kg barrel.

Store in closed original container at a temperature between $-5\,^{\circ}$ C and $+30\,^{\circ}$ C, protected from heat and direct solar radiation. Do not store with acids.

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Shelf life: 3 years from date of production (see stamp on label).

Classification for all means of transport: class 8, UN 1824.

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