

elma clean 225 R (EC 225 R)

Description

elma clean 225 R (EC 225 R) is a liquid, alkaline ultrasonic cleaning concentrate for the cleaning of metal pieces made of stainless steel, steel and other ferrous metals, titanium and precious metals after mechanical treatment (turning, milling, lapping, polishing, grinding, drawing and punching).

Removes residues of lapping, polishing and grinding media, punching oil and drawing grease as well as of high-performance cooling lubricants.

Not applicable for aluminium, magnesium and most of their alloys.

Application and Dosage

- Ultrasonic bath: Dosage: 3 - 8 % in water • Temperature: 50-80 °C • Cleaning time: 3-5 min.
- For corrosion-sensitive pieces add as corrosion inhibitor elma-KS, 0.1% to the cleaning and rinsing bathes and/or blow off quickly after rinsing.

Safety Recommendations

elma clean 225 R (EC 225 R) is classified as hazardous according to the Regulation (EC) No 1272/2008 [GHS] (skin irritation, serious eye damage).

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

Physical-chemical characterisation

- Density: 1.122 g/ml • pH (concentrate): ~13.1.
- Ingredients according to Annex VII, A, Regulation (EC) No 648/2004 on detergents:
5-15 % anionic surfactants, <5 % non-ionic surfactants, <5 % amine-soaps, <5 % phosphates.

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: use acetic or citric acid in an ultrasonic bath – do not use hydrochloric or sulfuric acid.

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

Volumes, Storage and Transport

- Available volumes: 1 l PE-bottle [REF 5813200000](#), 5 l HDPE-can [REF 5816200000](#), 10 l HDPE-can [REF 8000309](#), 25 l HDPE-can [REF 5812500000](#) and 200 l barrel [REF 5812600000](#).
- 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: 5 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 [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](#).