

## elma clean 224 (EC 224)

### Description

**elma clean 224 (EC 224)** is a liquid, slightly alkaline cleaning concentrate suitable for fine cleaning of steel, non-ferrous heavy metals, glass, ceramics and plastics in an ultrasonic bath.

**elma clean 224 (EC 224)** removes dust, grease, punching oil and residues of grinding and polishing media.

Check light metal alloys (Al, Mg, Zn) and plastics that are susceptible for stress cracking on compatibility before use.

### Application and Dosage

- Ultrasonic bath: Dosage: 2 - 5 % in water • Temperature: 50-80 °C • Duration: 3-10 min.

### Safety Recommendations

**elma clean 224 (EC 224)** is classified as hazardous according to the Regulation (EC) No 1272/2008 [GHS] (skin irritation, serious eye damage, corrosive to metals [aluminium and light metals]).

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

### Physical-chemical characterisation

- Density: 1.07 g/ml • pH (concentrate): 12.7 • pH (5% solution): 10.5.
- Ingredients according to Annex VII, A, Regulation (EC) No 648/2004 on detergents:  
<5 % anionic surfactants, <5 % non-ionic surfactants, <5 % amino-soaps, <5 % phosphates.
- Does not contain silicates.

### 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 sulphuric acid there!

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

### Volumes, Storage and Transport

- Available volumes: 5l HDPE-can [REF](#) 5818100000, 10 l HDPE-can [REF](#) 8000306, 25 l HDPE-can [REF](#) 5818200000 and 200 l barrel [REF](#) 5818300000.
- Store in closed original container at a temperature between -5 °C and +30 °C, protected from heat and direct solar radiation. Do not store together with acids.
- Shelf life: 4 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.