

## elma clean 145 (EC 145)

### Description

**elma clean 145 (EC 145)** is a liquid, slightly acid ultrasonic cleaning concentrate with mildly deoxidising effect. Suitable for the slightly acidic cleaning of non-ferrous heavy metals, aluminium, stainless steel, glass, plastics and e.g. AlCuMgPb-alloys. Brass and copper alloys are brightened.

**elma clean 145 (EC 145)** has an antistatic effect and is also good for decalcifying.

Cleaning results with animal and vegetable fats and oils are considerably improved by pre-cleaning with an alkaline cleaner (e.g. elma clean 110 (EC 110)). **elma clean 145 (EC 145)** removes polishing media, grease, oil, oxide layers (e.g. verdigris) and lime.

Attention: risk of tarnish when different metals are cleaned in the same bath.

### Application and Dosage

- Ultrasonic bath: Dosage: 2 - 5 % in water • Temperature: 40-80 °C • Cleaning time: 3-5 min.
- We recommend: acid cleaning process after alkaline cleaning.

### Safety Recommendations

**elma clean 145 (EC 145)** is classified as hazardous according to the Regulation (EC) No 1272/2008 [GHS] (skin corrosive and serious eye damage, skin sensitiser).

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

### Physical-chemical characterisation

- Density: 1.04 g/ml • pH (concentrate): approx. 1 • pH (1 % solution): 2.7.
- Ingredients according to Annex VII, A, Regulation (EC) No 648/2004 on detergents:  
5-15 % anionic surfactants, 5-15 % non-ionic surfactants, methylisothiazolinone (<100 ppm),  
benzisothiazolinone (<500 ppm).
- Does not contain phosphates and 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: for 1 liter of the concentrate **elma clean 145 (EC 145)** use approx. 50 ml 50 % soda lye.

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

### Volumes, Storage and Transport

- Available volumes: 5 l HDPE-can [REF](#) 5804800000, 10 l HDPE-can [REF](#) 8000303, 25 l HDPE-can [REF](#) 5808600000 and 200 l barrel [REF](#) 5808610000.
- Store in unopened original container at a temperature between -5 °C and +30 °C, protected from heat and direct solar radiation. Do not store together with alkalies. Provide acid-resistant floor.
- Shelf life: 3 years from date of production (see lot on label).
- Classification for all means of transport: class 8, UN 2586.

### 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.