

# ***elma clean 145 (EC 145)***

**LIQUID, SLIGHTLY ACID ULTRASONIC CLEANING CONCENTRATE  
WITH MILDLY DEOXIDISING EFFECT**

## **Description**

*elma clean 145 (EC 145)* is suitable for the slightly acid cleaning of nonferrous heavy metals, aluminium, stainless steel, glass, plastics and e.g. AlCuMgPb alloys. Brass and copper alloys are brightened. Also good for decalcifying.

*elma clean 145 (EC 145)* has an antistatic effect. Experience has shown that the cleaning results are considerably improved by precleaning 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), lime.

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

## **Application and dosage**

Dosage: 2 - 5 mass% in water, temperature: 40 - 80°C, duration: 3 - 5 min with ultrasonic. We recommend: acid cleaning process **a f t e r** 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). 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/ccm, pH (concentrate): approx. 1, pH (1% solution): 2.7.

Ingredients according to Annex VII, A, EC-Regulation 648/2004 (detergents): 5-15% anionic surfactants, 5-15% non-ionic surfactants, Methylisothiazolinone (<500ppm), 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 cleaning bath can be fed into the public sewage system after neutralisation; observe the local pH limit values and make sure that the contamination contained complies with the local sewage regulations.

For neutralisation we recommend: for 1 liter of the concentrate *elma clean 145 (EC 145)* use approx. 50ml 50% soda lye.

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

## **Volumes, storage and transport**

Available volumes: 10 liter and 25 liter HDPE-can, 200 liter barrel.

Store in unopened original container at a temperature between -5 and +30°C, protected from heat and direct solar radiation. Do not store together with alkalis. Provide acid-resistant floor.

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

Classification for all means of transport: class 8, UN 2586.

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