

# ***elma tec clean A3***

**LIQUID, ALKALINE ULTRASONIC CLEANING CONCENTRATE  
FOR THE CLEANING OF METAL PIECES  
AFTER MECHANICAL PROCESSING**

## **Description**

Cleans surfaces made of stainless steel, steel and other iron-metals, titanium and precious metals after mechanical treatment (turning, milling, lapping, polishing, grinding, drawing and punching).

Removes residues of lapping, polishing and grinding media and of 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**

Dosage: 3 - 8 %, temperature: 50 - 80 °C, duration: 3 - 5 min. with ultrasonic.

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.

## **Hotline for application consulting**

Working days: Tel. ++49 (0) 7731 882-287. Email: [chemlab@elma-ultrasonic.com](mailto:chemlab@elma-ultrasonic.com)

## **Safety recommendations**

The concentrate is classified as Irritant and Dangerous for the environment (Xi, R41-38-52/53) according to the German regulations on dangerous substances / EC directives. Observe the hints indicated in the Safety Data Sheets. Always handle chemicals with care.

## **Physical-chemical characterisation**

Density: 1.125 g/ccm, pH (concentrate): ~13.

Ingredients according to Annex VII, A, EC-Regulation 648/2004 (detergents): 5-15% anionic surfactants, <5% non-ionic surfactants, <5% phosphates, < 5% NTA.

## **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: 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 and storage**

Available volumes: 2.5, 10 and 25 litre can.

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

Shelf life: 5 years from date of production (see stamp on label).

Classification for all means of transport: class 8, UN 1719.

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