

## ***elma korrosionsschutzzusatz (elma-KS)***

**LIQUID MILDLY ALKALINE CONCENTRATE  
FOR TEMPORARY CORROSION PROTECTION  
USED AS ADDITIVE TO THE RINSING OR CLEANING BATH**

### **Description**

Corrosion-sensitive metals such as steel, gray cast iron and hard metals are covered with a protective coating on a molecular level which protects temporarily from corrosion.

Subsequent coating (PVD, CVD) or hardening processes (plasma- and carbonitriding) are not impeded.

### **Application and dosage**

a) Add *elma-KS* to the rinsing bath (tap water or distilled water); for complicated geometries we recommend ultrasonic rinsing.

b) *elma-KS* can also be added to the cleaning bath. The cleaning results are excellent if used with e.g. *elma clean 210 (EC 210)* or *elma clean 225 (EC 225)*.

0.05 - 0.5 mass%, 20 - 80°C, 1 - 5 min in an ultrasonic or rinsing bath. For further temporary corrosion protection after drying, keep drying below 120°C!

### **Safety recommendations**

*elma korrosionsschutzzusatz (elma-KS)* is classified as hazardous according to the regulation (EC) No 1272/2008 [GHS] (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: ~1.07 g/ccm, pH (1% solution): 9,0 – 9,5.

Ingredients according to Annex VII, A, EC-Regulation 648/2004 (detergents): >30% amino-soaps. Does not contain secondary amines.

### **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 or rinsing bath can be fed into the public sewage system; observe the local sewage regulations and make sure that the contamination contained and the used cleaning chemical are allowed.

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

### **Volumes, storage and transport**

Available volumes: 1 litre PE-bottle, 2.5 litre and 25 liter HDPE-can.

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 oxidizing agents and acids.

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

Classification for all means of transport: no hazardous material.

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