

# ***elma bezzusatz S1***

**INHIBITING PICKLING ADDITIVE TO PURE INORGANIC ACIDS,  
MIXTURES OF INORGANIC ACIDS AND CITRIC ACID.**

## **Description**

*elma bezzusatz S1* is suitable for gray cast, steel, stainless steel for their derusting, descaling, removal of passivated coats. In pickling processes and in the so-called citric acid based "passivation" *elma bezzusatz S1* stops the attack on to the ground metal.

## **Application and dosage**

Dosage: 0.5 – 5 vol%, temperature: 25 - 65°C, 1 - 15 min, in 10 – 35 % acid (citric, hydrochloric or phosphorous acid).

Rust-sensitive Gray casts and steels during subsequent rinsing have to be protected with corrosion-inhibiting additives, e.g. with *elma-KS*.

## **Safety recommendations**

*elma bezzusatz S1* is classified as hazardous according to the regulation (EC) No 1272/2008 [GHS] (skin corrosive and serious eye damage, acutely toxic: toxic in contact with skin or if inhaled and harmful if swallowed, skin sensitiser, hazardous to the aquatic environment). Observe also with respect to this the hints indicated in the Safety Data Sheet and always handle chemicals with care.

## **Physical-chemical characterisation**

Density: 1.038 g/ccm, pH (concentrate): 5.3.

Ingredients according to Annex VII, A, EC-Regulation 648/2004 (detergents): 15-30% nonionic surfactants, Benzisothiazolinone (~75ppm), Methylisothiazolinone (~75ppm).

## **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.

Dispose the pickling bath in accordance with local official regulations.

European waste code if applied with acids: 11 01 07\*, „pickling acids“.

Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil. Do not discharge product unmonitored into the environment.

## **Volumes, storage and transport**

Available volumes: 1 litre PE-bottle; 2,5 litre and 25 kg HDPE-can.

Store in closed original container and in a dry place at a temperature between -5°C and +30°C, protected from heat and direct solar radiation. Keep away from sources of ignition. Do not store together with oxidizing agents, alkalies or food. Keep under lock and key or accessible only to specialists or people authorized by them.

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

Classification for all means of transport: class 8 (6.1), UN 2922.

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