

## ***elma-netz HT 2***

### **LIQUID NEUTRAL WETTING ADDITIVE**

**ADDED TO DEIONIZED OR DEMINERALIZED WATER FOR BETTER RINSING**

#### **Description**

The addition of *elma-netz HT 2* lowers the surface tension of rinsing water strongly – from 72 mN/m down to 35 mN/m at 20 °C at 1% concentration. This makes it very suitable as a rinsing support for the complete removal of cleaning agents from surfaces with complicated geometries as capillaries, small slits, small blind holes a.s.o. – i.e. with surface areas not accessible for pure water.

The product is compatible with glassy, metallic, ceramic and most plastic surfaces. Plastic materials not stable against unsaturated alkoxy compounds should be checked before use.

*elma-netz HT 2* evaporates without residue during drying.

It is recommended especially before the beginning of the rinsing steps with deionised water in final cleaning processes for geometrically complicated assemblies and for isolation of flat parts from each other, e.g. of densely packed glassy plates or wafers.

#### **Application and dosage**

Dosage: 0.3 – 0.5 vol% with deionized water for rinsing stations ultrasonically supported or spray stations.

Rinsing temperature: 20-65 °C at 0.3 – 0.5%, to be mixed well with water after addition.

Because of the campher-like smell of the rinsing solution an exhaustion above the rinsing bath or at the upper edge of the bath is recommended.

#### **Safety recommendations**

*elma-netz HT 2* is classified as hazardous according to the regulation (EC) No 1272/2008 [GHS] (flammable, acutely toxic: toxic if swallowed and harmful in contact with skin, skin irritation, eye irritation). Observe also with respect to this the hints indicated in the Safety Data Sheet and always handle chemicals with care.

#### **Physical-chemical characterisation**

Density: 850 g/l at 20 °C. Flashpoint: 49 °C. Maximum solubility in deionised water (20°): 1.2 vol%. pH: The pH of the pure water used for the solution will not be changed.

Ingredients according to Annex VII, A, EC-Regulation 648/2004 (detergents): none. Contains nonsaturated alkoxy-compounds. Salt-free. Free of halogens.

#### **Disposal of rinsing solution and concentrate**

*elma-netz HT 2* is readily biodegradable (97%) according to the OECD test 301 D.

The rinsing solutions can be fed into the public sewage system, making sure that eventual further contaminations brought into the rinsing solution comply with the local sewage regulations. The COD value is 2.79 g O<sub>2</sub>/g.

European waste code (concentrate): 14 06 03\*, "Other solvents and solvent mixtures".

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

Available volumes: 1 liter PE-bottle, 2.5 liter, 10 liter and 25 liter HDPE-can.

Keep in tightly closed original container at a cool and ventilated place between -5 °C and +35 °C and protected from heat and direct solar radiation. Do not store together with food and oxidizing agents. Keep away from ignition sources. Keep under lock and key or accessible only to specialists or authorized people.

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

Classification for all means of transport: class 3 (6.1), UN 1992.

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