

## **elma Co-nsolve**

**INHIBITS THE COBALT LEACHING FROM METALS  
BY AMINE-CONTAINING AQUEOUS ALKALINE SOLUTIONS  
FOR THEIR CLEANING & SURFACE TREATMENT**

### **Description**

The concentrate *elma Co-nsolve* is suitable as an additive to amine-containing aqueous pH-neutral or -alkaline cleaning bathes or to aqueous cooling liquids for mechanical surface treatments: The addition of *elma Co-nsolve* to these aqueous media reduces the leaching of Cobalt from e.g. hard metal and cemented composite materials during their cleaning and treatment processes considerably.

### **Application and dosage**

Dosage to aqueous cleaning bathes: ~1 vol% in water; lower (> 0.5 vol%) concentrated with highly alkaline and somewhat higher (< 2 vol%) concentrated with mildly alkaline or pH-neutral cleaning bathes.

Dosage to rinsing bathes with amine-based corrosion inhibitors: 0.05 - 0.1 vol%.

Dosage to aqueous cooling liquids for surface treatments: ~2 vol%.

### **Safety recommendations**

*elma Co-nsolve* is classified as hazardous according to the regulation (EC) No 1272/2008 [GHS] (skin corrosive and serious eye damage, acutely toxic: harmful, corrosive to metals [aluminium], 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: 1.2 g/ccm, pH (concentrate): ~13.5 .

Ingredients according to Annex VII, A, EC-Regulation 648/2004 (detergents): none. Contains Tolyltriazole sodium salt.

### **Disposal**

Dispose the cleaning, rinsing or cooling liquid in accordance with local official regulations (European waste code: 07 01 01\*, „aqueous washing liquids and mother liquors “). Do not discharge into surface waters/groundwater. The 0.5-2% application solution is not classified as hazardous to the aquatic environment. Do not discharge into the subsoil/soil.

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

Available volumes: 10 litre 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 acids and oxidizing agents. 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, UN 3267.



**Elma Schmidbauer GmbH**

Gottlieb-Daimler-Str. 17, D-78224 Singen

E-Mail: [info@elma-ultrasonic.com](mailto:info@elma-ultrasonic.com)

01.09.2016 / (GB) Version 1.1

Tel.: +49 7731 882-0

Fax: +49 7731 882-266

[www.elma-ultrasonic.com](http://www.elma-ultrasonic.com)