

# Detergent resistance certified

by e.g. Ecolab, EHEDG, ...



Ecolab GmbH & Co. OHG  
P.O. Box 13 04 06  
D-40551 Düsseldorf

certifies that for



OMRON Manufacturing of Germany GmbH  
Carl-Benz-Strasse 4  
71154 Nufringen

#### material resistance tests

were performed with cleaning substances P3-topax 56, P3-topax 66, P3-topax 91, P3 Topactiv DES and demineralized water as a zero reference factor.

The material resistance of the tested series

Photoelectric Sensor E3ZM




to the P3 products used in the test can be considered to be positive according to the cleaning procedure mentioned overleaf.

Düsseldorf, 14th February 2006

Ecolab GmbH & Co. OHG

i.V.

  
Thomas Tyborski

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Reimund Laaff



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The material resistance of the tested series

Photoelectric Sensor E3F2-SUS



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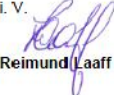
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## Cleaning plan for food and beverage industry\*



### Rinsing with water 40 – 50°C

Rinsing with low pressure. Rinsing from top to bottom in the direction of the drains. Cleaning of the drains.



### Foaming from bottom to top

alkaline: P3-topax 66 2 – 5 % daily  
 acid: P3-topax 56 2 % on demand  
 temperature: cold up to 40°C  
 contact time: 15 min. recommended



### Rinsing with water 40 – 50°C

Rinsing from top to bottom with low pressure

**Spray disinfection** P3-topax 91 1-2 %, 30 -60 minutes

**Foam disinfection** P3-topactive DES 1-2 %, 10-30 minutes

\*short description

### Test procedure

Ecolab-test F&E Nr. 40-1

#### Dipping test:

- Complete immersion in solutions/liquid

#### Test period:

- 14 days

#### Temperature:

- room temperature (constant)

#### Analysis:

- Visual judgement like swelling, brittleness, discoloring
- compared to zero-reference factor (deminerIALIZED water)
- Photometric documentation

### Product specifications:

#### P3-topax 56:

Acid foam cleaning substance for food industry

#### P3-topax 66:

Alkaline cleaning detergent with active chlorine for machine cleaning in food and beverage industry

#### P3-topax 91:

Neutral disinfection agent based on quaternary ammonium compounds (QAV) for food industry

#### P3-topactive DES:

Acid disinfectant based on Peracetic Acid and Hydrogen Peroxide for the food and beverage industry



Product name	Concentration	Temperature	Time
Sodium hydroxide (NaOH)	1.5 %	70 °C	240 h
Potassium hydroxide (KOH)	1.5 %	70 °C	240 h
Phosphoric acid (H <sub>3</sub> PO <sub>4</sub> )	2.5 %	70 °C	240 h
Sodium hypochlorite (NaClO)	0.3 %	25 °C	240 h
Hydrogen peroxide (H <sub>2</sub> O <sub>2</sub> )	6.5 %	25 °C	240 h
P3-topax-66s (Manufactured by Ecolab)	3.0 %	70 °C	240 h
P3-topax-56 (Manufactured by Ecolab)	5.0 %	70 °C	240 h
P3-oxonia active 90 (Manufactured by Ecolab)	1.0 %	25 °C	240 h
TEK121 (Manufactured by ABC Compounding)	1.1 %	25 °C	240 h





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A decorative graphic at the bottom of the page features overlapping, wavy blue lines and a grid pattern, creating a sense of motion and technology.

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