



**Ecolab Deutschland GmbH
Ecolab Allee 1
D-40789 Monheim am Rhein**

certifies that for

**Hummel AG
Lise-Meitner- Strasse 2
79211 Denzlingen
Germany**

material resistance tests

were performed with cleaners/disinfectants **P3-topactive OKTO, P3- topax 12, P3-topax 19, P3- topax 66, P3- topax 52, P3-topax 56 und P3-topax 990** and demineralized water as a zero reference factor.


The material resistance of the tested

HSK- INOX-HD


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

Monheim, 25th July 2014

Ecolab Deutschland GmbH
i.A.


Tanja Hackenberger

i. V.


Sandra Saul



ECOLAB®

This certificate is based on:

- documented test procedures (test no.: F&E/P3-E Nr. 40-1) according to material resistance
- defined product descriptions
- standardized cleaning procedure

Test procedure

Ecolab-test F&E Nr. 40-1

Dipping test:

- Complete immersion in solutions/liquid

Test period:

- 28 days

Temperature:

- room temperature (constant)

Analysis:

- Visual judgement like swelling, brittleness, discoloring
- compared to zero-reference factor (demineralized water)
- Photo documentation
- Based on Analysis no.51-08

Product specifications:

P3-topactive OKTO

Acid disinfectant based on peracetic acid/hydrogen peroxide for the food and beverage industry

P3- topax 12

Neutral foam cleaning agent for the food industry

P3-topax 19

Alkaline, chlorine-free foam cleaner for the food industry

P3- topax 66

Alkaline cleaning and disinfecting agent with available chlorine for foam cleaning in the food and beverage industry

P3-topax 56 /P3- topax 52:

Acid foam cleaning substance for the food and beverage industry

P3-topax 990:

Neutral disinfectant free of QAC for the food industry

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 19	2 – 5 %	daily
	P3- topax 66	2 – 5 %	daily
Neutral:	P3- topax 12	2- 5% spec.	application
acid:	P3-topax 56/ 52	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 990 1-3 %; 30-60 min

Foam disinfection : P3-topactive OKTO 0,5 -1 %, 10-30 min

*short description