BOOSTER

# COSA™ PUR 88

Liquid additive


Produced in certified Pharma-GMP GMP Plant

**Especially suitable for the removal of silicone oil**

## Why COSA PUR 88?

### Effective

COSA PUR 88 is an additive for removal of silicone oil in pharmaceutical processing equipment. It is highly efficient against fatty soils and hard to clean silicone residues, with a high soil-suspending power. COSA PUR 88 is recommended to be used as an additive for alkaline cleaning solutions.

### Quality assurance

COSA PUR 88 is supported by a complete validation package including techniques for determining acceptable residual levels and analytical methods for residue quantitation.

### Documentation package

- Certificates of Analysis (CoA)
- Analytical Method Descriptions Residue Analysis
- Ecological Assessment (EA)
- Toxicological and Limit Setting Information (PDE)
- Safety Data Sheet (SDS)

| Subject to incoming goods control | | | |
|---|---|---|---|
| **Appearance** | Clear, yellow to brownish liquid | **Refractive index $n_D^{20}$** | 1.4011 - 1.4071 |
| **pH** | 2.8 - 3.8 (20°C, 1% solution, deionised water) | **Density** | 1.00 - 1.04 g/cm³ |

| Properties | | |
|---|---|---|
| Concentrate | **Storage stability** | 2 - 40°C |
| | **Frost resistance** | Short time of frost is possible, product has to be homogenised after thawing |
| | **TOC** | 23.53% |
| Application solution | **Foam behaviour** | Non foaming > 65°C |
| | **Rinse behaviour** | Rinse with cold water of minimum drinking water quality |
| | **Water quality** | Minimum drinking water quality |
| Material compatibility | **Metals** | COSA PUR 88 is compatible with: Austenitic CrNi steels (quality at least DIN 1.4301 = AISI 304) |
| | **Plastics** | COSA PUR 88 is compatible with: PP, PE and PTFE |

ECOLAB®

GLOBAL EXPERTS IN CONTAMINATION CONTROL

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## Application

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|---|---|
| Mode of application | COSA PUR 88 is an additive to alkaline cleaning solutions and especially suitable for the removal of silicone oil in the pharmaceutical and cosmetic industries.<br>**General CIP application** (homogenisers, pipelines, tanks, etc)<br>**Concentration:** 1.0 - 2.0% COSA CIP solution (COSA CIP 92 or COSA CIP 96 and others like SP 3 and P3-Risil Mat), 1.0 - 2.0% COSA PUR 88<br>**Temperature:** 65 - 85°C **Contact time:** depending on degree and type of soiling<br>At a temperature below 65°C the formation of foam may occur. It is therefore recommended to heat up the cleaning solution to the required level before switching on the spraying system.<br>Concentration, temperature and cleaning time can be optimised by evaluation of respective cleaning trials.<br>Final rinse with water of minimum drinking water quality, ensuring all product residues are removed. COSA PUR 88 is most effectively rinsed at temperatures below +40°C. |

## Monitoring

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| Concentration determination and control | It is impossible to determine the concentration by means of a simple titrimetric, conductometric or photometic method.<br>In practice, it is suitable to determine the concentration of COSA PUR 88 by measuring the volume of the dosing pump and calculating the concentration used or time-proportional (e.g. by means of Ecolab Elados EMP - dosage pumps). |

## Ecological evaluation

| | |
|---|---|
| Evaluation | ◥ Very well biodegradable<br>◥ Phosphate-free<br>◥ EDTA - / NTA - free |
| P-content | 0.6% |
| N-content | 0.3% |
| COD | 1110 - 1210 mg $O_2$/g |

The complete ecological evaluation is available on the cleaning validation website **www.ecolab-cleaning-validation.com**

## Safety

The relevant hazard identifications of COSA PUR 88 are given in the Safety Data Sheet available at safetydata.ecolab.eu. If any questions arise in this context please contact your Ecolab representative.

A Toxicological Hazard Assessment is also available on the cleaning validation website **www.ecolab-cleaning-validation.com**

**For product ordering information, please contact your Ecolab Account Manager or email infoLS@ecolab.com**


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