

SurTec® 136

Recyclable Soak, Ultrasonic and Spray Cleaner

Properties

- liquid
- low alkaline
- free of silicates
- free of surfactants
- recyclable, also in combination with SurTec 089 (with cross-flow filtration or separator)
- emulsifying combination with SurTec 415
- application as spray-cleaner with SurTec 086
- suitable for steel, partly suitable for brass, copper and aluminium

Application

SurTec 136 is in combination with detergent boosters suitable for cleaning in soak, ultrasonic and spray application. Oil, grease and pigments are removable without problems.

concentration: 1.5-6 %vol SurTec 136 (corresponds to 25-100 g/l)
+ 0.1-1 %vol surfactant booster

temperature: 40-90 °C

application time: 0.5-10 min

Maintenance and Analysis

Analyse and adjust the concentration of SurTec 136 regularly. Dosage of SurTec 136 according titration or conductivity is possible.

Sample Preparation

Take a sample at a homogeneously mixed position. Let it cool down to room temperature. If the sample is turbid, let the turbidity settle down and decant or filter the solution.

SurTec 136 – Analysis by Titration

reagents: 0.1 N hydrochloric or sulfuric acid
indicator: methyl orange solution (0.04 %)

procedure: 1. Pipette 10 ml bath sample into a 250 ml Erlenmeyer flask.
2. Dilute with approx. 100 ml deionised water.
3. Add 3 drops of indicator.
4. Titrate with 0.1 N acid from yellow to red.

calculation: consumption in ml · 0.195 = %vol SurTec 136

Technical Specification

(at 20 °C)	Appearance	Density (g/ml)	pH-value (at 10 g/l)
SurTec 136	liquid, colourless - pale yellow	1.660 (1.62-1.70)	10.5

Ingredients

- phosphates

Stock Keeping

In order to prevent delays in the production process, per 1,000 l bath the following amount should be kept in stock:

SurTec 136 Recyclable Cleaner 50 kg

Product Safety and Ecology

The safety instructions and the instructions for environmental protection have to be followed in order to avoid hazards for people and environment. The Material Safety Data Sheets (according to European legislation) contain explicit details for this.

The following hazard designations and classifications into water hazard classes (WHC) have to be taken into account:

<u>product</u>	<u>hazard designation</u>	<u>water hazard class</u>
SurTec 136	-	WHC 1

Warranty

We are responsible for our products in the context of the valid legal regulations. The warranty exclusively accesses for the delivered state of a product. Warranties and claims for damages after the subsequent treatment of our products do not exist. For details please consider our [general terms and conditions](#).

Further Information and Contact

In our forum, you can discuss topics of the surface technology:

<http://forum.SurTec.com/>

If you have any questions concerning the process, please contact your local technical department: <http://SurTec.com/International.html>

10 January 2010/DK, OP