

SurTec® 138

Liquid Recyclable Builder

Properties

- highly alkaline cleaner for soak-, ultrasonic- and spray application
- free of silicates and detergents
- recyclable in combination with SurTec 089 (with cross-flow filtration or separator)
- emulsifying in combination with SurTec 415
- applicable as spray cleaner with SurTec 084 or SurTec 086
- suitable for steel, magnesium, partly suitable for copper and brass

Application

In combination with detergent boosters, SurTec 138 is suitable for cleaning in soak-, ultrasonic- and spray application. Oil, grease and pigments are removable without problems.

make-up values: 2 - 8 %vol SurTec 138 (corresponds to 30-100 g/l)
+ 0.2-1 %vol detergent booster

temperature: 40-90 °C

application time: 0.5-10 min

Maintenance and Analysis

Analyse and adjust the concentration of SurTec 138 regularly.

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 138 – Analysis by Titration

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

procedure: 1. Pipette 5 ml bath sample into a 250 ml Erlenmeyer flask.
2. Dilute with 100 ml deionised water.
3. Add 3 drops of indicator.
4. Titrate with 0.1 N hydrochloric or sulfuric acid from yellow-orange to red.

calculation: consumption in ml · 0.305 = %vol SurTec 138
(consumption in ml · 4.1 = g/l SurTec 138)

Technical Specification

(at 20 °C)	Appearance	Density (g/ml)	pH-value (at 20 g/l)
SurTec 138	liquid, light yellow to yellow	1.362 (1.34-1.39)	12.8 (12-14)

Ingredients

- potassium hydroxide
- phosphates
- salts of organic acids

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 138 30 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:

<i>product</i>	<i>hazard designation</i>	<i>water hazard class</i>
SurTec 138	C - Corrosive	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>