Topactive® DES

Description:

TOPACTIVE DES is an acidic disinfectant based on peracetic acid with excellent microbiocidal efficacy in the food and beverage industry

Product strengths:

- Conventional foam properties
- Excellent microbicidal efficacy also at low temperatures
- Effective against Salmonella typhimurium
- Descaling effect

Properties

Concentrate	**Appearance:**	colourless liquid *
	Storage stability:	0 - 30 °C (do not heat > 40 °C)
	Solubility:	at 20 °C miscible with water in any proportion
	Density:	1.03 - 1.08 g/cm³ *
	Viscosity:	1.5 - 2.5 mPas
	P content:	0.18 %
	N content:	0.12 %
	S content:	0.00 %
	COD:	220 - 260 mg O_2/g
	pH:	2.1 - 2.5
	Flash point:	not applicable
Application solution	**pH:**	3.2 - 3.6 * (1 %, 20 °C, deionized water)
		3.8 - 4.3 * (1 %, 20 °C, 16 °d water)
	Conductivity:	217 µS/cm (1 %, 25 °C, 0 °d water)
	Foam characteristics:	foaming, not suitable for CIP-systems

* Parameters subject to incoming goods control

Material compatibility: **Topactive DES** is, under the application conditions described below, compatible with

- **Metals** austenitic CrNi steels (quality at least DIN 1.4301 = AISI 304), aluminium
- **Plastics** PP, PE, rigid PVC
- **Sealings** EPDM, FKM HF
- **Others** glass and ceramic surfaces

Microbiology

EN 1276 Bactericidal Efficacy			
	Test organisms	Temperature	Clean conditions (0.03% BSA)
Pass criteria >5 log reduction	- *Staphylococcus aureus* (ATCC 6538) - *Pseudomonas aeruginosa (ATCC 15442)* - *Escherichia coli (ATCC 10536)* - *Enterococcus hirae (ATCC 10541)*	10°C	0.25% 5min
		20°C	0.25% 5min

EN 1650 Fungicidal and Yeasticidal efficacy			
	Test organisms	Temperature	Clean conditions (0.03% BSA)
Pass criteria >4 log reduction	***Yeast*** - *Candida albicans* (DSM 1386)	10°C	0.5% 5min.
			0.5% 15min.
		20°C	0.5% 5min.
			0.5% 15min.
	Fungi - *Aspergillus brasiliensis*	20°C	3.0% 15 min

EN 13697 Bactericidal, Yeasticidal and Fungicidal efficacy			
	Test organisms	Temperature	Clean conditions (0.03% BSA)
Pass criteria Bactericidal efficacy >4 log reduction Yeasticidal/ Fungicidal efficacy >3 log reduction	***Bacteria*** - *Staphylococcus aureus* (DSM 799) - *Enterococcus hirae* (DSM 3320) - Escherichia coli (DSM 682) - *Pseudomonas aeruginosa* (DSM 939)	10°C	2.5% 5min.
		20°C	1.0% 5min
	Additional bacteria **-** *Salmonella typhimurium*	10°C	0.5% 5 min
		20°C	0.5% 5 min
	Yeasts **-** *Candida albicans* (DSM 1386)	10°C	0.5% 5min.
			0.5% 15min.
		20°C	0.5% 5min.
			0.5% 15min.
	Fungi - *Aspergillus brasiliensis*	20°C	3.0% 15 min

Application

Topactive DES is suitable for the foam or spray disinfection of plants and equipment as well as floor- and wall areas in food processing plants:

- **Slaughteries / meat processing plants**
  transport vats, conveyor chains, separation belts, processing machines
- **Delicatessen plants**
  stirrer vessels, tanks, packaging machines
- **Dairy and cheese factories**
  cold-storage and ripening rooms, cheese moulds

Mode of application

1. **Foam** all surfaces with a 2 - 3 % **Topactive DES** solution
   Contact time: 10 - 30 minutes
2. **Rinse** with cold water

Important indications !

- Effluent, containing chemicals, must only be discharged according to the local regulations
- Chemicals containing effluent must only be discharged into the biological treatment station after passing the neutralization- and buffer tank
- When discharging chemically polluted effluent, it is essential to pay specific attention to the bacteria toxicity of this water. This is especially important when dealing with biocide containing effluents and anaerobic sewage plants
- In case of doubt please seek advice from our technical service

Monitoring

Concentration determination

- **Titration**

Receiving flask:	10 ml application solution 20 ml sulphuric acid (25 %)
Titration solution:	0.1 n sodium thiosulphate
Indicator:	+ 1 g potassium iodide + 2 ml starch solution (1 %)
Titration factor:	0.165

Volume added in ml x 0.165 = (by wt.) % **Topactive DES**

Application System

For foam cleaning with **Topactive DES**, we recommend the **Ecolab Hybrid** range of open plant cleaning equipment which provides:

- Foam, disinfection and rinse functionality
- Stationary and mobile systems for full flexibility
- Space saving, robust, hygienic designs
- High operator safety
- Special equipment for fixed and automated cleaning

Safety

The relevant hazards identifications of **Topactive DES** are given in the EC Safety Data Sheet. If any questions arise in this context, please contact your Ecolab representative.

Use biocides safely. Always read the label and product information before use.

INDICATION!

During cleaning and sanitizing operations misting can occur. These aerosols contain water and the applied chemical. Inhalation of such aerosols must be avoided. Respiratory protection might be required depending on the specific use conditions during operation.

Storage of **Topactive DES** exclusively in original sealed container with degasification unit.

During the preparation of **Topactive DES** application solution, consider a sufficient pressure compensation at the storage vessel.

The statements, information and data presented herein are believed to be accurate and reliable. The information describes the characteristic features of **Topactive DES** in ordinary use but cannot be taken as a guarantee, express warranty or implied warranty for the suitability for a particular purpose and shall not extend mandatory warranty rights (if any). The specifications and performance may vary subject to the operational conditions. Since numerous parameters will influence product performance and applicability, this information does not exonerate the user from liability with respect to the suitability of the product and the appropriate safety measures to be taken. Moreover, a possible infringement of patent rights must be avoided at all times.

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