

Trimeta CD

Description:	Acid one-phase cleaning and disinfecting product for the brewing industry			
Product strengths:	 microbiological efficad organisms 	cy against beverage specific micro-		
	 very good cleaning eff 	 very good cleaning effect 		
	• free of phosphorous			
	 suitable for stainless steel and Munkadur tanks 			
Properties				
Concentrate	Appearance:	Clear, colourless to yellow liquid *		
	Storage stability:	5 - 40 °C		
	Solubility:	at 20 °C miscible with water in any proportion		
	Density (20°C):	1.17 - 1.21 g/cm ³ *		
	P content:	0.0 %		
	N content:	1.7 %		
	COD:	205 mg O ₂ /g		
	Flash point:	not applicable		
Application solution	pH:	1.7 - 2.1 (1 %, 20 °C, deionized water)		
	Conductivity:	12.3 mS/cm (1 %, 20 °C, deionized water)		
	Foam characteristics:	Non foaming, suitable for CIP-systems		

* Parameters subject to incoming goods control

Material compatibility:	Trimeta CD is, in concentrate and under the application conditions described below, compatible with	
Metals	for concentrate : austenitic CrNi steels (quality at least DIN 1.4301 = AISI 304)	
	for use solution : austenitic CrNi steels (quality at least DIN 1.4301 = AISI 304), aluminium	
• Plastics	for concentrate: PE, PP, PTFE, rigid PVC and other acid-resistant plastics	
	for use solution: PE, PP, PTFE, rigid PVC, epoxid-coat (Munkadur) and other acid-resistant plastics	
Seals	for concentrate: Viton B, Silicon	
	for use solution: Viton B, FFKM, Silicon, NBR, EPDM	
	In view of the wide range of different seals, it is advisable to test their suitability in case of need.	
	For plastics and seals: The suitability of higher concentrations and/or other plastics should be tested in case of need.	

Microbiology

EN 1276 Bactericidal Efficacy				
Pass criteria	Test organisms	Temperature	Clean conditions (0.03% BSA)	Dirty Conditions (0.3% BSA)
>5 log reduction	Bacteria - Staphylococcus aureus (DSMZ 799) - Pseudomonas aeruginosa (DSMZ 939) - Escherichia coli (DSMZ 682) - Enterococcus hirae (DSMZ 3320) Additional bacteria - Lactobacillus brevis (DSMZ 6235)	4°C	1.5% 30min.	1.5% 30min.
	Bacteria - Staphylococcus aureus (DSMZ 799) - Pseudomonas aeruginosa (DSMZ 939) - Escherichia coli (DSMZ 682) - Enterococcus hirae (DSMZ 3320)	20°C	0.5% 5min.	1.5% 5min
	Bacteria - Staphylococcus aureus (DSMZ 799) - Pseudomonas aeruginosa (DSMZ 939) - Escherichia coli (DSMZ 682) - Enterococcus hirae (DSMZ 3320) Additional bacteria	40°C	-	0.7% 5min.
	- Enterococcus faecium (DSMZ 20477)			

EN 1650 Yeasticidal efficacy				
Pass criteria	Test organisms	Temperature	Clean conditions (0.03% BSA)	Dirty Conditions (0.3% BSA)
>4 log reduction	Yeast - Candida albicans (DSMZ 1386) - Saccharomyces cerevisiae var diast. (DSMZ 70487)	4°C	1.5% 30min.	2.0% 30min
	Yeast - Candida albicans (DSMZ 1386)	20°C	1.5% 5min,	2% 5min.
				1.5% 15min.
		40°C	-	1.25% 15min.

EN 13697 Bactericidal and Yeasticidal efficacy				
Pass criteria	Test organisms	Temperature	Clean conditions (0.03% BSA)	Dirty Conditions (0.3% BSA)
Bactericidal efficacy >4 log reduction Yeasticidal efficacy	icidal efficacy reduction cidal efficacy reduction cidal efficacy reduction icidal efficacy icidal eff	4°C	1.5% 30min.	1.5% 30min.
		20°0	1.5% 5min.	1.5%
<i>(DSMZ 6235)</i> <i>Additional bacteria</i> <i>- Salmonella typhimurium</i> <i>(DSMZ 5569)</i>	20 0	0.5% 15min.	5min.	
	Yeasts - Candida albicans (DSMZ 1386)	4°C	2.0% 30min.	2.0% 30min.
		20°C	3.0% 15min.	3.0% 15min.

Application	Trimeta CD is an acidic one-phase cleaner with special active ingredients for excellent cleaning results. It is particularly suitable for the CIP cleaning of large volume tanks as well as cylindroconical- and storage tanks.		
	Typical applications are:		
Fermenting-/	Tanks, CCT, pipelines		
Storage cellar	Pre-rinse with diluted NaOH-solution (0.5 - 0.8 %) (option		
	Concentration: Temperature: Contact time:	1.5 - 2.0 % 5 - 40°C 30 - 60 minutes	
	To ensure best results chlorine, alkaline produ recommended before ch	a basic cleaning procedure (e.g., uct) of the tanks and system is anging to Trimeta CD .	
• Filter-/Bright Beer	Buffer tanks, BBT, pipe	lines	
Tank Cellar	Concentration: Temperature: Contact time:	1.0 – 2.0 % 5 - 40°C 30 - 60 minutes	
Bottling Hall	Pipelines, beer mains* e. g.		
	Concentration: Temperature: Contact time:	1.0 – 2.0 % 5 - 40°C 30 - 60 minutes	
	* Only by acid-resistant filler parts Final rinse with water of drinking water quality, ensur and product residues are completely removed.		
	Trimeta CD can be reuse Due to microbiology the co be maintained at an adeq	ed for long periods without problems. oncentration in the storage tank should juate level.	
Important indications !	• Effluent, containing chemica according to the local regulat		
	 Chemicals containing effluent must only be discharged into the biological treatment station after passing the neutralization- and buffer tank 		
	 When discharging essential to pay spect this water. This is es biocide containing ef 	chemically polluted effluent, it is sific attention to the bacteria toxicity of specially important when dealing with fluents and anaerobic sewage plants	
	 In case of doubt ple service 	ease seek advice from our technical	

Monitoring

Concentration determination

• Titration	Receiving flask: Titration solution: Indicator: Titration factor:	50 ml application solution 1.0 n NaOH Phenolphthalein 0.44	
	Volume added in ml x 0.44 = % Trimeta CD		
Conductivity	Specific conductivity of Trimeta CD		
Concentration control	Trimeta CD is usually added directly to the stacking tank by means of Elados EMP/EMP / EcoPro / EcoAdd diaphragm pumps. We recommend the use of Elados EMP / EcoPro / EcoAdd diaphragm pumps for metering and for control and phase separation the use of LMIT 09 inductive conductivity meters.		
	Please visit <u>www.ec</u> information.	olab-engineering.com for more	
Safety	The relevant hazards identifications of Trimeta CD are in the EC Safety Data Sheet. If any questions arise context, please contact your Ecolab representative.		
	Use biocides safely. Always read the label and pro information before use.		





Concentration [%]

The statements, information and data presented herein are believed to be accurate and reliable. The information describes the characteristic features of **Trimeta CD** 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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Ecolab Europe GmbH Richtistr. 7 CH-8304 Wallisellen www.ecolab.com

