



## TECHNICAL DATA SHEET

### **GUIDELINE FORMULATION ON TRIAMEEN® Y12D-30 FOR SURFACE DISINFECTION**

Fatty amine derivatives are widely used in formulations for the control of bacteria, fungi and algae. This Technical Data Sheet gives information on one of Akzo Nobel's main products in disinfection called Triameen Y12D-30. Typical data, and data on biocidal activity, are shown on the next pages.

#### **PRODUCT**

Akzo Nobel produces an extensive range of fatty amine derivatives with antimicrobial properties. The outstanding features of fatty amine derivatives as disinfectant are high efficacy against a broad spectrum of micro-organisms and relatively low toxicity when used at recommended use level. Triameen Y12D-30 is very stable at a wide pH range. Furthermore the product is compatible with many anionic, nonionic and cationic surfactants and non-corrosive to metals. Triameen Y12D-30 can be used in many applications for microbiological control e.g. in hospitals, food and feed areas, water treatments or chain lubricants.

Akzo Nobel Surface Chemistry is committed to continue activities within the field of biocides after the implementation of the BPD. Our main products are notified and will be registered and accordingly will continue to be available for our customers in the future. The European Union has accepted our notification dossier for this active. An extensive research program was undertaken to develop further data on this active ingredient.

It is well known that organic soiling on surfaces to be disinfected may protect organisms and interact with biocidal agents. Our formulation has been designed for step 2 of a two-stage process of first cleaning and then disinfecting. The recommended guideline formulation gives optimal wetting of the surface to achieve intimate contact between the biocide and the micro-organisms to be controlled.

The test on bactericidal activity was performed according to suspension test EN1276 and the fungicidal activity was tested according to EN 1650.

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## **GUIDELINE FORMULATION:**

### **Composition:**

- 10% Triameen Y12D-30 (Dodecyl Dipropylene Triamine)
- 1% Dissolvine NA3 (EDTA. Na<sub>3</sub>.H)
- balance water

### **Ready to use concentration:**

The ready to use concentration is a 1:200 dilution of the guideline formulation at high water hardness (17°dH)

### **Typical data and properties:**

Properties	Concentrate	1:200 dilution
Appearance at 20°C	Clear liquid	Clear liquid
Clarity interval	0-65°C	0 ->100°C
Density	1,0 kg/m <sup>3</sup>	1,0 kg/m <sup>3</sup>
pH	10,5	8,9
Foam height (20°C, 3.8 °dH according to "Vindan") Immediately After 1 minute		135mm 120mm
Surface tension (Du Noüy ring)		27,3 mNm
CMC	0,17g/l	

# Disinfectant Effect of the Triameen<sup>®</sup> Y12D-30 Formulation

## Biocidal efficacy of Triameen Y12D-30 against different organisms

**Test methods:** EN 12 76 bactericidal test - EN 1650 fungicidal test

**Contact time:** 5 minutes (bactericidal) - 15 minutes (fungicidal)

**Conditions:** 0.03% protein load - 17°dH water hardness

**Formulation:** 10% Triameen Y12D-30, 1% Dissolvine NA3

Conc. of Triameen [ppm active substance]  
to obtain log 5 reduction (bactericidal)  
to obtain log 4 reduction (fungicidal)

