

Nouryon

Triameen Y12D-30

Guideline formulation with GLDA
for surface disinfection



Nouryon is a leading producer of fatty amine based products. Triameen Y12D-30 represents a highly effective biocidal amine with broad spectrum microbiological properties. It is an aqueous dilution containing about 30% of N-(3-aminopropyl)-N-dodecylpropane-1,3- diamine (as "diamine", CAS 2372-82-9 in the review program of the Biocidal Product Regulation for disinfectant product types 2, 3, 4). It does not have an ionic charge like the quaternary ammonium compounds.

Nouryon also produces a wide array of chelating agents. Chelating agents are known to boost the efficacy of biocidal formulations by extracting metal ions from cell membranes of microorganisms and so making them more vulnerable for biocidal attack. One of the best chelates to use for this purpose is GLDA (CAS 51981-21-6), a chelating agent with superior environmental and (eco)toxicological properties and sold under the name Dissolvine® GL-47-S.

This guideline formulation combines the outstanding properties of both products:

10% Triameen Y12D-30
8% Dissolvine® GL-47-S
82% water

All data refer to this formulation.

EN 13697

(Surface test for bactericidal efficacy)

Test strains: Escherichia coli,
Staphylococcus aureus, Enterococcus
hirae, Pseudomonas aeruginosa;
Clean conditions: 0.3 g/l Albumin for all:

Test passed at 1.5% (= 1: 67 dilution)

Clean conditions 8.5 g/l Skim milk for
Pseudomonas aeruginosa:

Test passed at 2.0% (= 1:50 dilution)

Phys-Chem Properties	As such	1:50 dilution*	1:75 dilution*	1:200 dilution*
Appearance at 20°C	clear liquid	clear liquid	clear liquid	clear liquid
Cloud point	55°C	>75°C	>75°C	>75°C
Density	1.02 g/cm	1.00 g/cm	1.00 g/cm	1.00 g/cm
pH	12.0	10.1	9.9	9.4
Foam height**				
immediately		157 mm	140 mm	128 mm
after 1 min		152 mm	138 mm	125 mm
after 5 min		145 mm	136 mm	121 mm
Surface Tension (Du Noüy)	31.0 mN/m	30.5 mN/m	30.6 mN/m	30.2 mN/m
CMC	17 mg/l			

* Dilution is done in water 17° German Hardness (17dGH) = 300 mg/l as CaCO₃

** Foam height was measured in Vindan at 20°C

EN 13697

(Surface test for yeasticidal efficacy)

Test strains: Candida albicans;

Clean conditions: 0.3 g/l Albumin:

Test passed at 1.5% in 5 and 15 minutes

EN 1276

(Suspension test for bactericidal efficacy)

Test strains: Escherichia coli,

Staphylococcus aureus, Enterococcus
hirae, Pseudomonas aeruginosa;

Clean conditions (0.3 g/l Albumin):

Test passed at 0.4% (= 1:250 dilution)

EN 1650

(Suspension test for yeasticidal efficacy)

Test strain: Candida albicans;

Clean conditions (0.3 g/l Albumin):

Test passed at 0.3% (= 1:333 dilution)

Specifically suitable for disinfection of food contact surfaces

- usual concentrations are safe regarding indirect food contact
- on the "French positive list"
- no MRL (Maximum Residue Limit)



Contact us directly for detailed product information
and sample requests at cleaning@nouryon.com

USA and Canada

Chicago, USA
T +1 312 544 7000

China

Shanghai, China
T +86 21 2220 5000

Europe

Stenungsund, Sweden
T +46 303 850 00

South America

Itupeva, Brazil
T +55 11 4591 8938

South East Asia

Singapore
T +65 6635 5183

Middle East

Dubai, United Arab Emirates
T +971 4347 2491

**Central America
and Caribbean**

Mexico City, Mexico
T +52 55 5261 7895

India

Mumbai, India
T +91 22 6842 6700

Russia

Moscow, Russia
T +7 495 766 1606

About Nouryon

We are a global specialty chemicals leader. Markets worldwide rely on our essential chemistry in the manufacture of everyday products such as paper, plastics, building materials, food, pharmaceuticals, and personal care items. Building on our nearly 400-year history, the dedication of our 10,000 employees, and our shared commitment to business growth, strong financial performance, safety, sustainability, and innovation, we have established a world-class business and built strong partnerships with our customers. We operate in over 80 countries around the world and our portfolio of industry-leading brands includes Eka, Dissolvine, Trigonox, and Berol.

For more information visit surfacechemistry.nouryon.com

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