



# Formulating for EU Ecolabel

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Nouryon

# EU Ecolabel guide

EU Ecolabel is a voluntary scheme established in 1992 to encourage businesses to market products and services that are kinder to the environment. This is an aspiration that Nouryon is fully supportive of with our diverse EU Ecolabel compliant ingredient portfolio.



**The main purpose of this Ecolabel brochure is to help you formulate cleaning products according to EU Ecolabel criteria.**

To guide you using our products, you will find a table containing the following information:

- Active content [%] of our products
- DID-number for products included in the DID-list part A
- Calculated value for both Df and Tf for product as such (concentration of active matter is considered)
- Biodegradability of products
- Hazard Statement (H)

This document should be considered as a guideline (or living document), which can be changed when additional information is available.

## How to calculate

- The DID-No of the products included in part A of the DID-list can be found in the tables on the following two pages. The values for toxicity and biodegradability in the DID-list have been used to calculate the Df and Tf (product as is) of those substances.
- For the products that are not in part A of the DID-list, the procedure described in part B has been used to establish the biodegradability and the toxicity values.
- The Critical Dilution Volume (CDV)<sub>(i)</sub> is calculated for each substance using the following equation (where (i) is at the individual ingredient level):  
$$CDV_{(i)} = Weight_{(i)} * Df/Tf(\text{product as is})_{(i)} * 1000.$$
- The Tf (product as is) given in the table is a calculated value for the product as such (active matter [%] is considered). The value can simply be multiplied by the concentration of product in your formulation.

Example: your formulation contains 6% of AG 6206 =>  $CDV_{(AG\ 6206)} = 6\ (\text{g}/100\ \text{g product}) * (0,05/0,0373) * 1000 = 8040\ \text{litres}$

(AG 6206 has an active matter of 75%; the active content [%] has been taken into account in the calculation of the Tf (product as is)<sub>(i)</sub>; 0,0373 for AG 6206).

If you have any problems to calculate the Critical Dilution Volume (CDV) or if you have any questions, please contact your Nouryon sales representative or your distributor. They will be pleased to help you.

# A guideline to formulating EU Ecolabel products with Nouryon ingredients

Nonionics	Active [%]	DID-No	Aerobic biodegradability	Df	Tf <sub>acute</sub> (product as is)	Tf <sub>chronic</sub> (product as is)	Hazard statement (CLP classification)
AG™ 6202	60-70	2134	R	0.05	0.043	0.269	H318
AG™ 6206	70-80	2134	R	0.05	0.037	0.233	H318
Berol® 048	80-90	2115	R	0.05	0.001	0.294	H302, H318
Berol® 185 PO	60-100	NA	R	0.05	0.007		Not classified
Berol® 260	90-100	2156	R	0.05	0.005	0.150	H319
Berol® 266	90-100	2156	R	0.05	0.005	0.150	H302, H318
Berol® 360	90-100	2156	R	0.05	0.005	0.150	H319
Berol® 366	90-100	2156	R	0.05	0.005	0.150	H302, H318
Berol® 840	90-100	NA	R	0.05	0.006		H319
Berol® Surfboost® AD15	60-100	NA	R	0.05	0.020		Not classified
Berol® EP 25	60-100	NA	R	0.05	0.020		Not classified
Ethylan® 1003	90-100	2107	R	0.05	0.007	0.150	H319
Ethylan® 1005	90-100	2107	R	0.05	0.007	0.150	H318
Ethylan® 1008	90-100	2107	R	0.05	0.007	0.150	H302, H318
Ethylan® 1008W	90-100	2107	R	0.05	0.008	0.167	H302, H318
Ethylan® CPG7545	100	NA	R	0.05	0.0001		H400
Ethylan® HB4	100	NA	R	0.05	0.047		H319
OMA™ 4	100	NA	R	0.05	0.002		H315, H318
<b>Cationics</b>							
Berol® R648 PO	60-70	NA	R	0.05	0.003		H302, H315, H318
<b>Specialty products</b>							
Berol® DGR 81	80-100	NA	R	0.05	0.011		H315, H318
Berol® EZ-1	80-100	NA	R	0.05	0.020		H318
Berol® LFG 61	80-100	NA	R	0.05	0.021		H318
Ampholak® YJH-40	30-40	NA	R	0.05	0.110	1.250	Not classified

Polycarboxylates/ Hybrid polymers	Active [%]	DID-No	Aerobic biodegradability	Df	Tf <sub>acute</sub> (product as is)	Tf <sub>chronic</sub> (product as is)	Hazard statement (CLP classification)
Alcoguard® 4160	40-60	2508	P	1.00	0.2500	1.450	Not classified
Alcosperse® 747	40-60	2508	P	1.00	0.2500	1.450	Not classified
Alcoguard® H 5941	40-60	NA	R	0.05	0.1000		Not classified
<b>Chelating agents</b>							
Dissolvine® GL-47-S	47	2510	R	0.05	0.213	21.300	H290
Dissolvine® GL-PD-S	82	2510	R	0.05	0.122	12.200	H315, H319
Dissolvine® M-40	40	2608	R	0.05	0.250	25.000	H290
Dissolvine® CSA	30	NA	R	0.05	2.630	2.630	Not classified

### Aerobic biodegradation

R Readily biodegradable according to OECD guidelines

P Persistent, the ingredient has failed the test for inherent biodegradability

O The ingredient has not been tested or data is missing

Contact us directly for detailed product information and sample request at [cleaning@nouryon.com](mailto:cleaning@nouryon.com)

### 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](http://surfacechemistry.nouryon.com)

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