

Detergents Ingredients Database

Part A. List of ingredients.

DID-no	Ingredient name	Acute toxicity			Chronic toxicity			Degradation		
		LC50/ EC50	SF(acute)	TF(acute)	NOEC (*)	SF (chronic) (*)	TF (chronic)	DF	Aerobic	Anaerobic
Anionic surfactants										
1	Linear alkyl benzene sulphonates 11,5 - 11,8 (LAS)	4,1	1000	0,0041	0,69	10	0,069	0,05	R	N
2	LAS (C10-13 alkyl) triethanolamine salt	4,2	1000	0,0042	3,4	100	0,034	0,05	R	O
3	C 14/17 Alkyl sulphonate	6,7	5000	0,00134	0,44	10	0,044	0,05	R	N
4	C 8/10 Alkyl sulphate	132	5000	0,0264			0,0264	0,05	R	Y
5	C 12/14 Alkyl sulphate (AS)	2,8	1000	0,0028	2	100	0,02	0,05	R	Y
6	C 12/18 Alkyl sulphate (AS) (#)			0,0149			0,027	0,05	R	Y
7	C 16/18 Fatty alcohol sulphate (FAS)	27	1000	0,027	1,7	50	0,034	0,05	R	Y
8	C 12/15 A 1-3 EO sulphate	4,6	1000	0,0046	0,1	10	0,01	0,05	R	Y
9	C 16/18 A 3-4 EO sulphate	0,57	10000	0,000057			0,000057	0,05	R	Y
10	Dialkyl sulpho succinate	15,7	1000	0,0157			0,0157	0,5	I	N
11	C 12/14 Sulpho- fatty acid methylester	9	10000	0,0009	0,23	50	0,0046	0,05	R	N
12	C 16/18 Sulpho- fatty acid methylester	0,51	5000	0,000102	0,2	50	0,004	0,05	R	N
13	C 14/16 alfa Olefin sulphonate	3,3	10000	0,00033			0,00033	0,05	R	N
14	C 14/18 alfa Olefin sulphonate	0,5	5000	0,0001			0,0001	0,05	R	N
15	Soap C>12-22	22	1000	0,022	10	100	0,1	0,05	R	Y
16	Lauroyl Sarcosinate	56	10000	0,0056			0,0056	0,05	R	Y
17	C9/11 2-10 EO Carboxymethylated, sodium salt or acid	100	10000	0,01			0,01	0,05	R	O
18	C12/18 2-10 EO Carboxymethylated, sodium salt or acid	8,8	1000	0,0088	5	100	0,05	0,05	R	O
19	C 12/18 Alkyl phosphate esters	38	1000	0,038			0,038	0,05	R	N

Non-ionic surfactants

20	C8 A 1-5 EO	7,8	1000	0,0078			0,0078	0,05	R	Y
21	C 9/11 A, >3-6 EO predominantly linear	5,6	1000	0,0056			0,0056	0,05	R	Y
22	C 9/11 A, >6-10 EO predominantly linear	5	1000	0,005			0,005	0,05	R	Y
23	C 9/11 A, 5-11 EO multibranch	1	1000	0,001			0,001	0,05	R	O
24	C10 A, 5-11 EO multibr.(Trimer-propen-oxo-alcohol)	10	1000	0,01			0,01	0,05	R	Y
25	C 12/15 A, 2-6 EO predominantly linear	0,43	1000	0,00043	0,18	50	0,0036	0,05	R	Y
26	C12/14 5-8 EO 1 t-BuO (endcapped)	0,23	1000	0,00023	0,18	100	0,0018	0,05	R	O

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27	C 12/15 A, 3-12 EO multibranched	1	1000	0,001	3,2	100	0,032	0,05	R	O
28	C 12/15 (mean value C<14) A, >6-9 EO	0,63	1000	0,00063	0,24	10	0,024	0,05	R	Y
29	C 12/15 (mean value C>14) A, >6-9 EO	0,4	1000	0,0004	0,17	10	0,017	0,05	R	Y
30	C 12/15 A, >9-12 EO	1,1	1000	0,0011			0,017	0,05	R	Y
31	C 12/15 A >12-20 EO	0,7	1000	0,0007			0,0007	0,05	R	O
32	C 12/15 A >20-30 EO	13	1000	0,013	10	100	0,1	0,05	R	O
33	C 12/15 A, >30 EO	130	1000	0,13			0,13	0,5	I	O
34	C 12/18 A, 0-3 EO	0,3	1000	0,0003			0,0003	0,05	R	Y
35	C 12/18 A, 5-10 EO	1	1000	0,001	0,35	100	0,0035	0,05	R	O
36	C 12/18 A, >10-20 EO	1	1000	0,001			0,0035	0,05	R	O
37	C 16/18 A, 2-8 EO	3,2	1000	0,0032	0,4	100	0,004	0,05	R	Y
38	C 16/18 A, >9-18 EO	0,72	1000	0,00072	0,32	10	0,032	0,05	R	Y
39	C 16/18 A, 20-30 EO	4,1	1000	0,0041			0,0041	0,05	R	Y
40	C 16/18 A, >30 EO	30	1000	0,03			0,03	0,5	I	Y
41	C12-15 A 2-6 EO 2-6 PO	0,78	1000	0,00078	0,36	100	0,0036	0,05	R	O
42	C10-16 A 0-3 PO 6-7 EO	3,2	5000	0,00064	1	100	0,01	0,05	R	O
43	Glycerin (1-5 EO) cocoate	16	1000	0,016	6,3	100	0,063	0,05	R	Y
44	Glycerin (6-17 EO) cocoate	100	1000	0,1			0,1	0,05	R	Y
45	C 12/14 Glucose amide	13	1000	0,013	4,3	50	0,086	0,05	R	Y
46	C 16/18 Glucose amide	1	1000	0,001	0,33	50	0,0066	0,05	R	Y
47	C 8/10 Alkyl polyglycoside	28	1000	0,028	5,7	100	0,057	0,05	R	Y
48	C8/12 Alkyl polyglycoside, branched	480	1000	0,48	100	100	1	0,05	R	N
49	C 8/16 or C12-14 Alkyl polyglycoside	5,3	1000	0,0053	1	10	0,1	0,05	R	Y
50	Coconut fatty acid monoethanolamide	9,5	1000	0,0095	1	100	0,01	0,05	R	Y
51	Coconut fatty acid monoethanolamide 4-5 EO	17	10000	0,0017			0,0017	0,05	R	Y
52	Coconut fatty acid diethanolamide	2	1000	0,002	0,3	100	0,003	0,05	R	O
53	PEG-4 Rapeseed amide	7	1000	0,007			0,007	0,05	R	Y

Amphoteric surfactants

60	C12/15 Alkyl dimethylbetaine	1,7	1000	0,0017	0,1	100	0,001	0,05	R	O
61	Alkyl C12/18 amidopropylbetaine	1,8	1000	0,0018	0,09	100	0,0009	0,05	R	Y
62	C12/18 Alkyl amine oxide	0,3	1000	0,0003			0,0003	0,05	R	Y

Cationic surfactants

70	Alkyl trimethyl ammonium salts	0,1	1000	0,0001	0,046	100	0,00046	0,5	I	O
71	Alkyl ester ammonium salts	2,9	1000	0,0029	1	10	0,1	0,05	R	Y

Preservatives

80	1,2-Benzisothiazol-3-one	0,15	1000	0,00015			0,00015	0,5	I	N
81	Benzyl alcohol	360	1000	0,36			0,36	0,05	R	Y
82	5-bromo-5-nitro-1,3-dioxane	0,4	5000	0,00008			0,00008	1	P	O
83	2-bromo-2-nitropropane-1,3-diol	0,78	1000	0,00078	0,2	100	0,002	0,5	I	O
84	Chloroacetamide	55,6	10000	0,00556			0,00556	1	O	O
85	Diazolinidylurea	35	5000	0,007			0,007	1	P	O
86	Formaldehyde	2	1000	0,002			0,002	0,05	R	O
87	Glutaraldehyde	0,31	1000	0,00031			0,00031	0,05	R	O
88	Guanidine, hexamethylene-, homopolymer	0,18	1000	0,00018	0,024	100	0,00024	1	P	O
89	CMI + MIT in mixture 3:1 (§)	0,0067	1000	0,0000067	0,0057	50	0,000114	0,5	I	O
90	2-Methyl-2H-isothiazol-3-one (MIT)	0,06	1000	0,00006			0,00006	0,5	I	O
91	Methyldibromoglutaronitrile	0,15	1000	0,00015			0,00015	0,05	R	O
92	e-phtaloimidoperoxyhexanoic acid	0,59	5000	0,000118			0,000118	1	P	O
93	Methyl-, Ethyl- and Propylparaben	15,4	5000	0,00308			0,00308	0,05	R	N
94	o-Phenylphenol	0,92	1000	0,00092			0,00092	0,05	R	O
95	Sodium benzoate	128	1000	0,128			0,128	0,05	R	Y
96	Sodium hydroxy methyl glycinate	36,5	5000	0,0073			0,0073	1	O	O
97	Sodium Nitrite	87	10000	0,0087			0,0087	1	NA	NA
98	Triclosan	0,0014	1000	0,0000014	0,00069	10	0,000069	0,5	I	O
99	Phenoxy-ethanol	344	1000	0,344	200	100	2	0,05	R	O

Other ingredients

110	Silicon	250	1000	0,25			0,25	1	P	N
111	Paraffin	1000	10000	0,1			0,1	1	P	O
112	Glycerol	4400	5000	0,88			0,88	0,05	R	Y
113	Phosphate, as STPP	1000	1000	1			1	0,15	NA	NA
114	Zeolite (Insoluble Inorganic)	1000	1000	1	175	50	3,5	1	NA	NA
115	Citrate and citric acid	825	1000	0,825	80	50	1,6	0,05	R	Y
116	Polycarboxylates	200	1000	0,2	106	10	10,6	1	P	N
117	Nitrilotriacetat (NTA)	494	1000	0,494	64	50	1,28	0,05	R	O
118	EDTA	121	1000	0,121	22	50	0,44	0,5	I	N
119	Phosphonates	650	1000	0,65	25	50	0,5	1	P	N
120	EDDS	320	1000	0,32	32	50	0,64	0,05	R	N
121	Clay (Insoluble Inorganic)	1000	1000	1			1	1	NA	NA
122	Carbonates	250	1000	0,25			0,25	0,15	NA	NA
123	Fatty acids C>=14	3,7	5000	0,00074			0,00074	0,05	R	Y
124	Silicates	250	1000	0,25			0,25	1	NA	NA

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125	Polyasparaginic acid, Na-salt	410	1000	0,41			0,41	0,05	R	N
126	Perborates (as Boron)	14	1000	0,014			0,014	1	NA	NA
127	Percarbonate (See carbonate)	250	1000	0,25			0,25	0,15	NA	NA
128	Tetraacetylenediamine (TAED)	250	1000	0,25	500	100	5	0,05	R	O
129	C1-C4 alcohols	1000	1000	1			1	0,05	R	Y
130	Mono-, di- and triethanol amine	90	1000	0,09	0,78	100	0,0078	0,05	R	Y
131	Polyvinylpyrrolidon (PVP)	1000	1000	1			1	0,5	I	N
132	Carboxymethylcellulose (CMC)	250	5000	0,05			0,05	0,5	I	N
133	Sodium and magnesium sulphate	1000	1000	1	100	100	1	1	NA	NA
134	Calcium- and sodiumchloride	1000	1000	1	100	100	1	1	NA	NA
135	Urea	1000	5000	0,2			0,2	1	NA	NA
136	Silicon dioxide, quartz (Insoluble inorganic)	1000	1000	1			1	1	NA	NA
137	Polyethylene glycol, MW>4000	1000	10000	0,1			0,1	1	P	N
138	Polyethylene glycol, MW<4000	1000	10000	0,1			0,1	0,05	R	O
139	Cumene sulphonates	450	1000	0,45			0,45	0,5	I	N
140	Na-/Mg-/KOH	30	1000	0,03			0,03	0,05	NA	NA
141	Enzymes/proteins	25	5000	0,005			0,005	0,05	R	Y
142	Perfume, if not other specified (**)	2	1000	0,002			0,002	0,5	I	N
143	Dyes, if not other specified (**)	10	1000	0,01			0,01	1	P	N
144	Starch	100	1000	0,1			0,1	0,05	R	Y
145	Anionic polyester	655	1000	0,655			0,655	1	P	N
146	PVNO/PVPI	530	1000	0,53			0,53	1	P	N
147	Zn Ftalocyanin sulphonate	0,2	1000	0,0002	0,16	100	0,0016	1	P	N
148	Iminodisuccinat	81	1000	0,081	17	100	0,17	0,05	R	N
149	FWA 1	11	1000	0,011	10	100	0,1	1	P	N
150	FWA 5	10	1000	0,01	1	10	0,1	1	P	N
151	1-decanol	2,3	5000	0,00046			0,00046	0,05	R	O
152	Methyl laurate	1360	10000	0,136			0,136	0,05	R	O
153	Formic acid (Ca salt)	100	1000	0,1			0,1	0,05	R	Y
154	Adipic acid	31	1000	0,031			0,031	0,05	R	O
155	Maleic acid	106	1000	0,106			0,106	0,05	R	Y
156	Malic acid	106	1000	0,106			0,106	0,05	R	O
157	Tartaric acid	200	10000	0,02			0,02	0,05	R	O
158	Phosphoric acid	138	1000	0,138			0,138	0,15	NA	NA
159	Oxalic acid	128	5000	0,0256			0,0256	0,05	R	O
160	Acetic acid	30	1000	0,03			0,03	0,05	R	Y
161	Lactic acid	130	1000	0,13			0,13	0,05	R	Y
162	Sulphamic acid	75	1000	0,075			0,075	1	NA	NA
163	Salicylic acid	46	1000	0,046			0,046	0,15	R	O
164	Glycollic acid	141	5000	0,0282			0,0282	0,05	R	O

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165	Glutaric acid	208	5000	0,0416			0,0416	0,05	R	O
166	Malonic acid	95	5000	0,019			0,019	0,05	R	O
167	Ethylene glycol	6500	1000	6,5			6,5	0,05	R	Y
168	Ethylene glycol monobutyl ether	747	5000	0,1494			0,1494	0,05	R	O
169	Diethylene glycol	4400	10000	0,44			0,44	0,05	R	Y
170	Diethylene glycol monomethyl ether	500	1000	0,5			0,5	0,15	R	O
171	Diethylene glycol monoethyl ether	3940	5000	0,788			0,788	0,05	R	O
172	Diethylene glycol monobutyl ether	1254	1000	1,254			1,254	0,05	R	O
173	Diethylene glycol dimethylether	2000	10000	0,2			0,2	0,5	I	O
174	Propylene glycol	32000	1000	32			32	0,15	R	Y
175	Propylene glycol monomethyl ether	12700	5000	2,54			2,54	0,05	R	O
176	Propylene glycol monobutylether	748	5000	0,1496			0,1496	0,05	R	O
177	Dipropylene glycol	1625	10000	0,1625			0,1625	0,05	R	O
178	Dipropylene glycol monomethyl ether	1919	5000	0,3838			0,3838	0,05	R	O
179	Dipropylene glycol monobutylether	841	5000	0,1682			0,1682	0,05	R	O
180	Dipropylene glycol dimethylether	1000	5000	0,2			0,2	0,5	I	O
181	Triethylene glycol	4400	1000	4,4			4,4	0,5	I	O
182	Tall oil	1,8	1000	0,0018			0,0018	0,5	I	O
183	Ethylenebisstearamides	140	5000	0,028			0,028	0,5	I	O
184	Sodium gluconate	10000	10000	1			1	0,05	R	O
185	Glycol distearate	100	5000	0,02			0,02	0,05	R	Y
186	Hydroxyl ethyl cellulose	209	5000	0,0418			0,0418	1	P	O
187	Hydroxy propyl methyl cellulose	188	5000	0,0376			0,0376	1	P	O
188	1-methyl-2-pyrrolidone	500	1000	0,5			0,5	0,05	R	O
189	Xanthan gum	490	1000	0,49			0,49	0,05	R	O
190	Trimethyl Pentanediol mono-isobutyrate	18	1000	0,018	3,3	100	0,033	0,05	R	O
191	Benzotriazole	29	1000	0,029			0,029	1	P	O
192	Piperidinol-propanetricarboxylate salt	100	1000	0,1	120	100	1,2	0,5	I	O
193	Diethylaminopropyl-DAS	120	1000	0,12	120	100	1,2	1	P	O
194	Methylbenzamide-DAS	120	1000	0,12	120	100	1,2	0,5	I	O
195	Pentaerythritol-tetrakis-phenol-propionate	38	1000	0,038			0,038	1	P	O
196	Block polymers (***)	100	5000	0,02			0,02	1	P	N
197	Denatonium benzoate	13	5000	0,0026			0,0026	1	O	O
198	Succinate	374	10000	0,0374			0,0374	0,05	R	O
199	Polyaspartic acid	528	1000	0,528			0,528	0,05	R	N
200	Xylene Sulphonate	230	1000	0,23	31	100	0,31	0,5	I	N
201	Proteinhydrolizates, wheatgluten	113	5000	0,023			0,023	0,05	R	O
202	Fatty acid, C ₆₋₁₂ methyl ester	21	10000	0,0021			0,0021	0,05	R	O
203	Mn-Saltren (CAS 61007-89-4)	39	1000	0,039	4,3	100	0,043	0,5	I	O

204	Tri-Sodium methylglycine diacetat	100	1000	0,1	16,7	50	0,334	0,05	R	O
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Insoluble inorganic Inorganic ingredient with very low, or no ability to dissolve in water.

- (*) If no acceptable chronic toxicity data was found, these columns are empty. In that case TF(chronic) is defined as equal to TF(acute)
- (**) As a general rule licence applicants must use the data on the list. Perfumes and dyes are exceptions. If toxicity data is submitted by the licence applicant the submitted data shall be used to calculate the TF and determine the degradability. If not, the values on the list shall be used.
- (***) The applicants data on aerobic degradability of DID no. 196 Block polymers will be accepted after presentation of test-report.
- (#) Due to a lack of toxicity results the TF has been calculated as an average of the values of C 12/14 Alkyl sulphate (AS) and C 16/18 Alkyl sulphate (AS).
- (§) 5-Chloro-2-Methyl-4-isothiazolin-3-one and 2-Methyl-4-isothiazolin-3-one in mixture 3:1

List of abbreviations:

SF(acute)	Safety factor for acute toxicity.
TF(acute)	Toxicity factor based on acute toxicity on aquatic organisms.
SF(chronic)	Safety factor for chronic toxicity.
TF(chronic)	Toxicity factor based on chronic toxicity on aquatic organisms.
DF	Degradation factor

Aerobic degradation:

R	Readily biodegradable according to OECD guidelines.
I	Inherently biodegradable according to OECD guidelines.
P	Persistent. The ingredient has failed the test for inherent biodegradability.
O	The ingredient has not been tested.
NA	Not applicable

Anaerobic degradation:

Y	Biodegradable under anaerobic conditions.
N	Not biodegradable under anaerobic conditions.
O	The ingredient has not been tested.
NA	Not applicable

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Part B.

Critical Dilution Volume

The Critical Dilution Volume is calculated according to the following equation:

$$CDV = 1000 * \sum \text{dosage}(i) * DF(i) / TF(i)$$

Dosage(i) = Dosage of ingredient i, expressed in g/wash, or in some cases as g/100 g product.

DF(i) = Degradation Factor for ingredient i.

TF(i) = Toxicity Factor for ingredient i.

PROCEDURE FOR ESTABLISHING PARAMETER VALUES FOR INGREDIENTS NOT ON THE DID-LIST

As a general rule the listed parameter values must be used for all ingredients on the DID-list. An exception is made for perfumes and dyes, where additional test results are accepted (see footnote in Part A).

The following approach applies for ingredients that are not listed on the DID-list.

Aquatic toxicity

In the European Eco-label scheme, the CDV is calculated based on the chronic toxicity and chronic safety factors. If no chronic test results are available, the acute toxicity and safety factor must be used.

The chronic toxicity factor (TF_{chronic})

- Calculate the Median value within each trophic level (fish, crustaceans or algae) using validated test results for chronic toxicity. If several test results are available for one species within a trophic level, a median for the species shall be calculated first, and these median values shall be used when calculating the median value for the trophic level .
- The Chronic toxicity factor (TF_{chronic}) is the lowest median of the trophic levels calculated.
- The TF_{chronic} shall be used when calculating the critical dilution volume criterion.

The acute toxicity factor (TF_{acute})

- Calculate the Median value within each trophic level (fish, crustaceans or algae) using validated test results for acute toxicity. If several test results are available for one species within a trophic level, a median for the species shall be calculated first, and these median values shall be used when calculating the median value for the trophic level .
- The Acute toxicity factor (TF_{acute}) is the lowest median of the trophic levels.
- The TF_{acute} shall be used when calculating the critical dilution volume criterion.

Safety Factor:

The Safety Factor (SF) is depending on how many trophic levels are tested, and whether chronic test results are available or not. SF is determined as follows:

Data	Safety factor (SF)	Toxicity factor (TF)
1 short-term L(E)C50	10000	Toxicity/10000
2 short-term L(E)C50 from species representing two trophic levels (fish and/or crustaceans and/or algae)	5000	Toxicity/5000
At least 1 short-term L(E)C50 from each of three trophic levels of the base-set1	1000	Toxicity/1000
One long-term NOEC (fish or crustaceans)	100	Toxicity/100
Two long-term NOEC from species representing two trophic levels (fish and/or crustaceans and/or algae)	50	Toxicity/50
Long-term NOEC from at least three species (normally fish, crustaceans and algae) representing three trophic levels	10	Toxicity/10

- The base set for testing the toxicity of substances towards aquatic organisms consists of acute tests with fish, daphnia and algae.

Degradation Factors

The Degradation Factor is defined as follows:

Table 1. Degradation factor (DF):

	DF
Readily biodegradable (*)	0,05
Readily biodegradable (**)	0,15
Inherently biodegradable	0,5
Persistent	1

(*) All surfactants or other ingredients consisting of a series of homologues and fulfilling the final degradation requirement of the test, shall be included in this class regardless of fulfilment of the 10-day window criterion.

(**) 10-day window criterion not fulfilled.

For inorganic ingredients the DF is set according to observed degradation rate. If the ingredient degrade within 5 days: DF=0,05, within 15 days: DF=0,15 or within 50 days: DF=0,5.

Anaerobic biodegradability

The ingredient must be classified into one of the following classes of compounds:

Category	Label
Anaerobically not biodegradable, i.e. tested and found not biodegradable.	N
Anaerobically biodegradable i.e. tested and found biodegradable or not tested	Y

but demonstrated through analogy considerations etc.	
Not tested for anaerobic biodegradability	0

Aerobic biodegradability

The ingredient must be classified into one of the following classes of compounds:

Category	Label
Readily biodegradable	R
Inherently biodegradable, but not readily biodegradable	I
Persistent	P
Not tested for aerobic biodegradability	O

Insoluble inorganic ingredients

If an inorganic ingredient has a very low water-solubility, or is not soluble in water this must be indicated in the submitted file.