



The technical association
of the European lubricants
industry



The technical committee
of petroleum additive
manufacturers in Europe

ATIEL/ATC
Generic Exposure
Scenarios

Document 6: Environmental Classified Substances Table

This spreadsheet provides the parameter values for a range of risk determining substances (RDSs) applied to pre-assign the appropriate GES code.

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Environmental Classified Substance Table

Purpose

The purpose of this spreadsheet is to provide you with the parameter values for a range of risk determining substances (RDSs) applied to pre-assign the appropriate GES code

Substance Name	CAS #	EC #	DSD Classification	GHS classification (optional)	Parameter values as input to GES code				GES code (see tab GES Assignment codes)
					log Kow	VP (pa)	Biodegradability	PNEC FW aqua mg/l	
1,2,4-trimethylbenzene	95-63-6		R10-20-36/37/38-51/53		3.63	300	readily biodegradable	0.12	3.5
1H-imidazole-1-ethanol, 2-(8-heptadecenyl)-4,5-dihydro- / 1-Hydroxyethyl-2-heptadecenyl-imi	95-38-5	202-414-9	R50/53	Chronic 1 M factor =1(	7.5	0.000000026	not biodegradable	0.00003	6.1
2,6-ditert-butyl-p-cresol (R50/53) - (Global)	128-37-0	204-881-4	N; R50/53		5.0 - 5.2	0.39	not biodegradable	0.000199	6.2
2,6-di-tert-butylphenol / butylated phenol	128-39-2	204-884-0	R50/53	Chronic 1	4.48	0.938	not biodegradable	0.00045	2.2
2-Ethylhexyl nitrate	27247-96-7		R51/53		5.24	27	not biodegradable	0.0008	8.2
2-ethylhexyl zinc dithiophosphate : see also Zinc alkyl dithiophosphate	4259-15-8	224-235-5	R51/53	Chronic 2	3.59	0.00042	not biodegradable	0.004	2.3
7A-Ethyldihydro-1H,3H,5H-oxazolo[3,4-C]oxazole	7747-35-5		R50/53; 51/53; 52/53; 50		-0.32	60.6	not biodegradable	0.0513	4.4
Alkaryl amine	68411-46-1	270-128-1	R52/53	Chronic 3	>6	<0.01	readily biodegradable	0.051	5.4
Alkoxyated alkylamine	25307-17-9 or 61791-44-4		R22-34-50 (M factor 10)		3.4	0.0012	readily biodegradable	0.000214	1.2
Alkyl methacrylate (as impurity)	97-86-9		R10-36/37/38-43-50		2.95	211	readily biodegradable	0.21	3.5
Alkyl phenol (as impurity)	121158-58-5		R38-50/53-62		6.1	0.011	not biodegradable	0.000074	6.1
Alkyl phenol (as impurity)	25154-52-3+84852-15-3		R22-34-50/53-62-63		5.4	10	not biodegradable	0.000614	8.2
Alkyl phenol (R38, R62, R50/53 <0.1mg/l)	74499-35-7 / 121158-58-5	310-154-3	Repr. Cat. 3; R62Xi; R38N; R50/53		7.14	0.01	not biodegradable	0.000074	6.1
Alkylglycine derivative	110-25-8		R38-41-50		3.5 - 4.2	0.00013	readily biodegradable	0.00043	1.2
Aryl amine	90-30-2	201-983-0	R43-50/53 (M Factor 1)		4.28	0.0011	not biodegradable	0.0002	2.2
chloroparaffine, C14-C17 ; see also medium chain chlorinated paraffin (MCCP) / , C14-17, Chloro	61788-76-9 / 85535-85-9	263-004-3 / 28 R64, R66N; R50/53			5.5-8.2	0.00013-0.00027	not biodegradable	0.001	6.3
calcium sulphonate	68610-84-4	271-877-7	R53	Chronic 4	5.8	too low to measure	not biodegradable	1	6.5
Cumene	98-82-8		R10-37-51/53-65		3.55	496	readily biodegradable	0.035	3.4
Dicyclohexylamine (DCHA) / N,N-dicyclohexylamine	101-83-7	202-980-7	R22-34-50/53	Chronic 1	2.72	7.5	readily biodegradable	0.0016	3.3
Dicyclopentadiene	77-73-6	201-052-9	R11-20/22-36/37/38-51/53		2.78	186	not biodegradable	0.029	4.4
D-limonene	5989-27-5	227-813-5	R50/53	Chronic 1	4.38	200	readily biodegradable	0.0054	3.3
Hindered phenolic antioxidant	128-37-0		R50/53(M factor1)		5.03 - 5.20	0.39	not biodegradable	0.0002	6.2
Hydroxyalkyl imidazoline	95-38-5		R22-48/22-34-50/53(Mf10)		7.51 - 8.53	<1	not biodegradable	0.00003	6.1
MCCP ; see also medium chain chlorinated paraffin (MCCP) / , C14-17, Chloro	61788-76-9 / 85535-85-9	263-004-3 / 28 R64, R66N; R50/53			5.5-8.2	0.00013-0.00027	not biodegradable	0.001	6.3
medium chain chlorinated paraffin (MCCP) , C14-17, Chloro	61788-76-9 / 85535-85-9	263-004-3 / 28 R64, R66N; R50/53			5.5-8.2	0.00013-0.00027	not biodegradable	0.001	6.3
Mesitylene	108-67-8	203-604-4	R51/53		3.42	320	not biodegradable	0.1	4.5
Naphthalene	91-20-3	202-049-5	R22-40-50/53	Chronic 1	3.4	7.2	not biodegradable	0.0024	4.3
N-Oleyl sarcosine	110-25-8	203-749-3	Xi; R41, R38N; R50/53		3.5-4.2	0.000131	readily biodegradable	0.00043	1.2
Nonylphenol, branched, ethoxylated	68412-54-4	500-209-1	R50/53		5.39	0.043	not biodegradable	0.0016	6.3
N-Phenyl-1-naphthylamine	90-30-2	201-983-0	R50/53	Chronic 1	4.28	0.00385	not biodegradable	0.0002	2.2
Pentane	109-66-0		R51/53		3.45	5800000	readily biodegradable	0.25	3.5
Phenol, isopropylated, phosphate (3:1)	68937-41-7	273-066-3	Repr. Cat. 3; R62Xn; R48/22R43N; R51/5		4.92 - 5.17	580	not biodegradable	0.0015	8.3
Phenothiazine	92-84-2	202-196-5	R22-48/22-43-50/53(Mf1)		3.78	0.000064	not biodegradable	0.012	2.4
Phenyl alpha naphthylamine	90-30-2		R22-43-50/53(Mf1)		4.28	0.0011	not biodegradable	0.0002	2.2
Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts (R3 85940-28-9		288-917-4	Xi; R36N; R51/53		8.87	0.013	not biodegradable	0.002	6.3
Tertiary alkylamines	102-82-9		R23/24-22-38-51/53		3.4	180	readily biodegradable	0.0036	3.3
Trialkaryl phosphate	25155-23-1		R62 R43 R48/22 R50/53		6.32	270	not biodegradable	0.00006	8.1
Triaryl phosphate (<0.2% Ortho-TCP)	1330-78-5		R21/22-51/53	Chronic 1 M factor =1(	5.93	370	not biodegradable	0.000146	8.2
Tricresyl phosphate	1330-78-5	215-548-8	R50/53		5.93	300	not biodegradable	0.000146	8.2
Trimethylbenzene	108-67-8		R10 R37 R51/53		3.42	320	readily biodegradable	0.1	3.4
Triphenyl phosphate	115-86-6	204-112-2	R50/53	Chronic 1	4.63	0.000835	readily biodegradable	0.0037	1.3.1
Trixylenyl phosphate	25155-23-1	246-677-8	R50/53	Chronic 1 M factor =1(	6.38	210	not biodegradable	0.00006	8.1
Zinc aryldithiophosphate	98073-07-5	308-565-8	R53	Chronic 4	>5	<1	not biodegradable	>1	6.5
Zinc bis[O,O-bis(2-ethylhexyl)] bis(di)thiophosphate	4259-15-8	224-235-5	R51/53	Chronic 2	3.59	0.00042	not biodegradable	0.004	2.3
Zinc dialkyl dithiophosphates	68457-79-4	270-608-0	Xi; R41, R38N; R51/53		0.69	0.0025	not biodegradable	0.004	2.3.1