



Brussels, **XXX**
SANTE/10257/2018
[...] (2020) **XXX** draft

ANNEX

ANNEX

to the

COMMISSION REGULATION (EU) .../...

modifying Annex III of Regulation (EC) 1107/2009 of the European Parliament and of the Council concerning the placing of plant protection products on the market

ANNEX

Annex III to Regulation (EC) No 1107/2009 is replaced by the following:

ANNEX III

List of co-formulants which are not accepted for inclusion in plant protection products as referred to in Article 27¹

No.	Name	EC names/Other names	CAS number	EC number	Classification/Other properties
1.	1-Chloro-2,3-epoxypropane	Epychloridrine, 2,3-Epoxypropyl chloride	106-89-8	203-439-8	Carcinogenic cat.1B
2.	1, 2- Dichloroethane	Ethane, 1,2-dichloro	107-06-2	203-458-1	Carcinogenic cat.1B
3.	1-Ethylpyrrolidin-2-one	N-ethyl-2-pyrrolidone	2687-91-4	220-250-6	Reproductive toxicity cat.1B
4.	2-Ethoxyethanol	Ethanol, 2-ethoxy	110-80-5	203-458-1	Reproductive toxicity cat.1B
5.	2-Ethoxyethanol acetate	Ethanol, 2-ethoxy-, 1-acetate	111-15-9	203-839-2	Reproductive toxicity cat.1B
6.	1-Methyl-2-pyrrolidone	2,pyrrolidinone, 1-methyl	872-50-4	212-828-1	Reproductive toxicity cat.1B
7.	2-Methoxyethanol	Ethanol, 2-methoxy	109-86-4	203-713-7	Reproductive toxicity cat.1B
8.	2-Methoxyethanol acetate	Ethanol, 2-methoxy-, 1-acetate	110-49-6	203-772-9	Reproductive toxicity cat.1B
9.	2-Methoxypropanol	1-Propanol, 2-methoxy	1589-47-5	216-455-5	Reproductive toxicity cat.1B
10.	2-Nitropropane	Propane, 2-nitro	79-46-9	201-209-1	Carcinogenic cat.1B
11.	4-Nonylphenol, branched, ethoxylated	Poly(oxy-1,2-ethanediyl), α -(4-nonylphenyl)- ω -hydroxy-, branched	127087-87-0	500-315-8	Endocrine disrupting properties (REACH Article 57(f) - Environment)
12.	2-[2-[2-[2-(4-nonylphenoxy)ethoxy]ethoxy]ethoxy]ethanol	Ethanol, 2-[2-[2-[2-(4-nonylphenoxy)ethoxy]ethoxy]ethoxy]-	7311-27-5	230-770-5	Endocrine disrupting properties (REACH Article 57(f) - Environment)
13.	2-[2-(4-nonylphenoxy)ethoxy]ethanol	Ethanol, 2-[2-(4-nonylphenoxy)ethoxy]-	20427-84-3	243-816-4	Endocrine disrupting properties (REACH Article 57(f) - Environment)

¹ The limit for the acceptable presence of the substances listed in the table as unintentional impurity is 0,01 % (weight by weight (w/w)) except where stated otherwise in this Annex.

14.	4-Nonylphenol, ethoxylated	Poly(oxy-1,2-ethanediyl), α -(4-nonylphenyl)- ω -hydroxy-	26027-38-3	500-045-0	Endocrine disrupting properties (REACH Article 57(f) – Environment)
15.	20-(4-nonylphenoxy)-3,6,9,12,15,18-hexaoxaicosan-1-ol	3,6,9,12,15,18-Hexaoxaicosan-1-ol, 20-(4-nonylphenoxy)-	27942-27-4	248-743-1	Endocrine disrupting properties (REACH Article 57(f) – Environment)
16.	2-[2-[2-(4-nonylphenoxy)ethoxy]ethoxy]ethoxy]ethanol	Ethanol, 2-(4-nonylphenoxy)-	104-35-8		Endocrine disrupting properties (REACH Article 57(f) – Environment)
17.	2-[2-(4-nonylphenoxy)ethoxy]ethanol	3,6,9,12,15,18,21,24-Octaoxahehexacosan-1-ol, 26-(4-nonylphenoxy)-	14409-72-4		Endocrine disrupting properties (REACH Article 57(f) – Environment)
18.	4-Nonylphenol, ethoxylated	3,6,9,12,15-Pentaoxaheptadecan-1-ol, 17-(4-nonylphenoxy)-	34166-38-6		Endocrine disrupting properties (REACH Article 57(f) – Environment)
19.	20-(4-nonylphenoxy)-3,6,9,12,15,18-hexaoxaicosan-1-ol	Poly(oxy-1,2-ethanediyl), α -(isononylphenyl)- ω -hydroxy-	37205-87-1		Endocrine disrupting properties (REACH Article 57(f) – Environment)
20.	4-Nonylphenol, branched, ethoxylated	Ethanol, 2-[2-(4- <i>tert</i> -nonylphenoxy)ethoxy]-	156609-10-8		Endocrine disrupting properties (REACH Article 57(f) – Environment)
21.	2-(2-[4-(1,1,3,3-Tetramethylbutyl)phenoxy]ethoxy)ethanol	Ethoxylated octylphenol Polyethylene Glycol Octylphenyl Ether Poly(oxy-1,2-ethanediyl), α -[(1,1,3,3-tetramethylbutyl)phenyl]- ω -hydroxy-	9036-19-5	618-541-1	Endocrine disrupting properties (REACH Article 57(f) – Environment)
22.	Acrylamide	2-propenamamide	79-06-1	201-173-7	Carcinogenic cat.1B / Mutagenic cat.1B
23.	Alkylarylpolyglycol ether		9016-45-9	934-221-7	Endocrine disrupting properties (REACH Article 57(f) - ENV)
24.	Aluminium silicate containing > 0.1 % particles of crystalline silica with diameter below 50 μm ²	Kaolin	1332-58-7	310-194-1	
25.	Amines, tallow alkyl, ethoxylated (POE-tallowamine)	Amines, tallow alkyl, ethoxylated	61791-26-2	500-153-8	Concerns or data gaps related to potential effects on human

² The limit for the acceptable presence as unintentional impurity is 0,5 % (weight by weight (w/w)).

					health or the environment
26.	Amines, tallow alkyl, ethoxylated propoxylated (POEP-tallowamine)	Amines, tallow alkyl, ethoxylated propoxylated	68213-26-3	614-378-5	Concerns or data gaps related to potential effects on human health or the environment
27.	Asbestos fibres - Actinolite	Actinolite asbestos	77536-66-4	616-471-6	Carcinogenic cat.1A
28.	Asbestos fibres - Amosite	Amosite asbestos	12172-73-5	601-801-3	Carcinogenic cat.1A
29.	Asbestos fibres - Anthophyllite	Anthophyllite asbestos	77536-67-5		Carcinogenic cat.1A
30.	Asbestos fibres - Chrysotile	Chrysotile asbestos	12001-29-5 132207-32-0-		Carcinogenic cat.1A
31.	Asbestos fibres - Crocidolite	Crocidolite asbestos	12001-28-4		Carcinogenic cat.1A
32.	Asbestos - Tremolite	Tremolite asbestos	77536-68-6		Carcinogenic cat.1A
33.	Attapulgite	Palaygorskite	12174-11-7		Carcinogenic cat.1A
34.	Benzene	Benzole	71-43-2	200-753-7	Carcinogenic cat.1A / Mutagenic cat.1B
35.	Benzo[def]chrysene	Benzo [a] pyrene	50-32-8	200-028-5	Carcinogenic cat.1B
36.	Boric acid	Boric acid	10043-35-3	233-139-2	Reproductive toxicity cat.1B
37.	Buta-1,3-diene	1,3-butadiene	106-99-0	203-450-8	Carcinogenic cat.1A / Mutagenic cat.1B
38.	Butane (containing $\geq 0,1$ % butadiene (CAS No. 203-450-8))	Butane	106-97-8	203-448-7	Carcinogenic cat.1A
39.	Cristobalite (SiO ₂)		14464-46-1	238-455-4	See Silicium dioxide
40.	Dibutyl phthalate	n-Butyl phthalate	84-74-2	201-557-4	Endocrine disrupting properties (REACH Article 57(f) – Human Health) Reproductive toxicity cat.1B
41.	Diisobutyl phthalate	bis(2-methylpropyl) benzene-1,2-dicarboxylate	84-69-5	201-553-2	Endocrine disrupting properties (REACH Article 57(f) – Human Health) Reproductive toxicity cat.1B
42.	Disodium octaborate	Disodium octaborate anhydrous	12008-41-2	234-541-0	Reproductive toxicity cat.1B
43.	Disodium; boron; oxygen(2-); tetrahydrate	Boric acid,disodiumsalt,tetrahydrate	12280-03-4	234-541-0	Reproductive toxicity cat.1B

44.	Disodium tetraborate, anhydrous	Boron sodium oxide	1330-43-4	215-540-4	Reproductive toxicity cat.1B
45.	Disodium tetraborate, decahydrate	Borax	1303-96-4	215-540-4	Reproductive toxicity cat.1B
46.	Disodium tetraborate, pentahydrate	Boron sodium oxide, hydrated	12179-04-3	215-540-4	Reproductive toxicity cat.1B
47.	Distillates (petroleum), hydrotreated heavy naphthenic with a content of ≥ 3.0 % DMSO-extract (measured by IP 346)		64742-52-5	265-155-0	Carcinogenic cat.1B
48.	Distillates (petroleum), hydrotreated heavy paraffinic with a content of ≥ 3.0 % DMSO-extract (measured by IP 346)		64742-54-7	265-157-1	Carcinogenic cat.1B
49.	Distillates (petroleum), hydrotreated light naphthenic with a content of ≥ 3.0 % DMSO-extract (measured by IP 346)		64742-53-6	265-156-6	Carcinogenic cat.1B
50.	Distillates (petroleum), hydrotreated light paraffinic with a content of ≥ 3.0 % DMSO-extract (measured by IP 346)		64742-55-8	265-158-7	Carcinogenic cat.1B
51.	Distillates (petroleum), solvent-dewaxed heavy paraffinic with a content of ≥ 3.0 % DMSO-extract (measured by IP 346)		64742-65-0	265-169-7	Carcinogenic cat.1B
52.	Distillates (petroleum), solvent-refined heavy paraffinic with a content of ≥ 3.0 % DMSO-extract (measured by IP 346)		64741-88-4	265-090-8	Carcinogenic cat.1B
53.	Distillates (petroleum), solvent-refined light paraffinic with a content of ≥ 3.0 % DMSO-extract (measured by IP 346)		64741-89-5	265-091-3	Carcinogenic cat.1B
54.	Ethylene oxide	Oxyrane, Epoxyethane	75-21-8	200-849-9	Carcinogenic cat.1B
55.	Formaldehyde	Formalin, Methanal,Formol	50-00-0	200-001-8	Carcinogenic cat.1B
56.	Formamide	Methanamide	75-12-7	200-842-0	Reproductive toxicity cat.1B
57.	Isobutane (containing $\geq 0,1$ % butadiene (CAS No. 203-450-8))	Propane, 2-methyl	75-28-5	200-857-2	Carcinogenic cat.1A / Mutagenic cat. 1B
58.	Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based with a content of ≥ 3.0 % DMSO-extract (measured by IP 346)		72623-86-0	276-737-9	Carcinogenic cat.1B

59.	Lubricating oils (petroleum), C17-32, solvent-extd., dewaxed, hydrogenated with a content of ≥ 3.0 % DMSO-extract (measured by IP 346)		101316-70-5	309-875-6	Carcinogenic cat.1B
60.	Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based with a content of ≥ 3.0 % DMSO-extract (measured by IP 346)		72623-87-1	276-738-4	Carcinogenic cat.1B
61.	Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based, high-viscosity with a content of ≥ 3.0 % DMSO-extract (measured by IP 346)		72623-85-9	276-736-3	Carcinogenic cat.1B
62.	N, N-dimethylformamide	Dimethyl formamide, DMF	68-12-2	200-679-5	Reproductive toxicity cat.1B
63.	Naphtha (petroleum), heavy alkylate predominantly branched chain C9-C12 with a content of ≥ 0.1 % benzene (CAS No. 200-753-7)		64741-65-7	265-067-2	Carcinogenic cat.1B / Mutagenic cat.1B
64.	Naphtha (petroleum), hydrodesulfurized heavy predominantly C7-C12 with a content of ≥ 0.1 % benzene (CAS No. 200-753-7)		64742-82-1	265-185-4	Carcinogenic cat.1A / Mutagenic cat.1B
65.	Naphtha (petroleum), hydrodesulfurized light, dearomatized predominantly C7 paraffins and cycloparaffins with a content of ≥ 0.1 % benzene (CAS No. 200-753-7)		92045-53-9	295-434-2	Carcinogenic cat.1A / Mutagenic cat.1B
66.	Naphtha (petroleum), hydrotreated heavy predominantly C6-C13 with a content of ≥ 0.1 % benzene (CAS No. 200-753-7)		64742-48-9	265-150-3	Carcinogenic cat.1A / Mutagenic cat.1B
67.	Naphtha (petroleum), light arom. predominantly C8-C10 with a content of ≥ 0.1 % benzene (CAS N. 200-753-7)		64742-95-6	265-199-0	Carcinogenic cat.1A / Mutagenic cat.1B
68.	Nitrobenzene	Benzene, nitro	98-95-3	202-716-0	Reproductive toxicity cat.1B / Carcinogenic cat. 2
69.	N-methylformamide	Formamide, N-methyl-	123-39-7	204-624-6	Reproductive toxicity cat.1B
70.	Nonyl phenol, ethoxylated	2-[2-(4-nonylphenoxy)ethoxy]ethanol	9016-45-9	500-024-6	Endocrine disrupting properties (REACH Article 57(f) - Environment)
71.	Phenol, 4-isononyl-	p-isononylphenol	26543-97-5	247-770-6	Endocrine disrupting

					properties (REACH Article 57(f) – Environment)
72.	Phenol, 4-nonyl-	p-nonylphenol	104-40-5	203-199-4	Endocrine disrupting properties (REACH Article 57(f) – Environment)
73.	Phenol, 4-nonyl-, branched	Phenol, 4-nonyl-, branched	84852-15-3	284-325-5	Endocrine disrupting properties (REACH Article 57(f) – Environment)
74.	Phenol, nonyl-	Nonylphenol	25154-52-3	246-672-0	Endocrine disrupting properties (REACH Article 57(f) – Environment)
75.	Phenol, nonyl-, branched	Phenol, nonyl-, branched	90481-04-2	291-844-0	Endocrine disrupting properties (REACH Article 57(f) – Environment)
76.	Phenol, 4-(1,1-dimethylheptyl)-	p-(1,1-dimethylheptyl)phenol	30784-30-6	250-339-5	Endocrine disrupting properties (REACH Article 57(f) – Environment)
77.	Phenol, 4-(1-ethyl-1,3-dimethylpentyl)-	4-(1-Ethyl-1,3-dimethylpentyl)phenol	186825-36-5	-	Endocrine disrupting properties (REACH Article 57(f) – Environment)
78.	Phenol, 4-(1-ethyl-1,4-dimethylpentyl)-	4-(1-Ethyl-1,4-dimethylpentyl)phenol	142731-63-3	-	Endocrine disrupting properties (REACH Article 57(f) – Environment)
79.	Phenol, 4-(1-ethyl-1-methylhexyl)-	4-(1-ethyl-1-methylhexyl)phenol	52427-13-1	257-907-1	Endocrine disrupting properties (REACH Article 57(f) – Environment)
80.	Phenol, 4-(1-methyloctyl)-	p-(1-methyloctyl)phenol	17404-66-9	241-427-4	Endocrine disrupting properties (REACH Article 57(f) – Environment)
81.	Octyl phenol ethoxylated	Octoxynol	9002-93-1		Endocrine disrupting properties (REACH Article 57(f) – Environment)
82.	Orthoboric acid, sodium salt	Boric acid, sodium salt	7311-27-5	237-560-2	Reproductive toxicity cat.1B
83.	Pyridine, alkyl derivatives, with a content of ≥ 0.1 % benzene (CAS No. 200-753-7)		68391-11-7	269-929-9	Carcinogenic cat.1A / Mutagenic cat.1B
84.	PHMB CoPoly(bisiminoimidocarbonyl, hexamethylene	Guanidine, N,N"-1,6-hexanediylbis[N'-cyano-, polymer	27083-27-8 and 32289-58-0 and		Not approved for use in biocidal products for product-

	hydrochloride),(iminoimidocarbonyl, hexamethylene hydrochloride	with 1,6-hexanediamine, hydrochloride Poly[iminocarbonimidoyliminocarbonimidoylimino-1,6-hexanediyl], hydrochloride Cyanamide, N-cyano-, compd. with 1,6-hexanediamine (2:1), polymer with 1,6-hexanediamine hydrochloride (1:2)	1802181-67-4		type 6 (in-can preservatives).
85.	Quinoline	Quinoline	91-22-5	202-051-6	Carcinogenic cat.1B
86.	Quartz sand (containing > 0.1 % particles with diameter below 50 um) ³	Quartz, Silicium dioxide, Silica, Silicon dioxide, SiO ₂	14808-60-7	238-878-4	
87.	Silicium dioxide containing > 0.1 % particles with diameter below 50 um) ⁴	Kieselguhr	61790-53-2	310-127-6	
88.	Tetraboron disodium heptaoxide, hydrate	Boron sodium oxide, hydrate	12267-73-1	235-541-3	Reproductive toxicity cat.1B
89.	Tetrahydrofurfuryl Alcohol	2-Furanmethanol-tetrahydro	97-99-4	202-625-6	Reproductive toxicity cat.1B
90.	Trydimite (SiO ₂)		15468-32-3	239-487-1	See Silicium dioxide

³ The limit for the acceptable presence as unintentional impurity is 0,5 % (weight by weight (w/w)).

⁴ The limit for the acceptable presence as unintentional impurity is 0,5 % (weight by weight (w/w)).