



## Banned Substances List

Substance	CAS number	Legislation	Examples of Use	Reason for Control	Added/ Revised
Ammonium dichromate	7789-09-5	REGULATION (EC) No1907/2006 : Candidate List REGULATION (EC) No1907/2006 : Annex XVII (28, 29, 30) REGULATION (EC) No1907/2006 : Annex XIV CAN NPRI for 2010 - Schedule 1 Part 1 Group 1 Substances CAN Toxic Substances List - Schedule 1 from 2011-06-01 (33.)	Surface coating	Carcinogenic, mutagenic, toxic for reproduction	2021-May
Arsenic acid	7778-39-4	REGULATION (EC) No1907/2006 : Candidate List REGULATION (EC) No1907/2006 : Annex XIV REGULATION (EC) No1907/2006 : Annex XVII (28)	Mainly used to remove gas bubbles from ceramic glass melt and in the production of laminated pcbs	Carcinogenic	2021-May
Arsenic and its compounds	7440-38-2	REGULATION (EC) No1907/2006 : Annex XVII (19) CH SR 814.81 Annex 2 - Groups of preparations and articles CAN NPRI for 2010 - Schedule 1 Part 1 Group 1 Substances CAN Toxic Substances List - Schedule 1 from 2011-06-01 (28.) US 40 CFR Ch. (7-1-10 Edition) #372.65(a) AUS SLI 2011 No. 262: Schedule 10	Preservation of wood	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment	2021-May
Arsenic and its salts	-	REGULATION (EC) No1907/2006 : Annex XIV REGULATION (EC) No1907/2006 : Annex XVII (28)	Uses of arsenic include pharmaceuticals, wood preservatives, agricultural chemicals, and applications in the mining.	Carcinogenic	2021-May
Asbestos fibers (also see below list)	1332-21-4, 12001-28-4, 12172-73-5, 77536-67-5, 77536-66-4, 77536-66-4, 77536-68-6, 12001-29-5, 132207-32-0	REGULATION (EC) No1907/2006 : Annex XVII (6.) CH SR 814.81 Annex 1 - Specific substances CAN NPRI for 2010 - Schedule 1 Part 1 Group 1 Substances CAN Toxic Substances List - Schedule 1 from 2011-06-01 (6.) US 40 CFR Ch. (7-1-10 Edition) #372.65(a) Prop 65	Friction pads, gaskets, electrical and thermal insulation, fire resistant textiles	Carcinogenic	2021-May
Crocidolite Synonyms: Blue asbestos, Krokydolite	12001-28-4	REGULATION (EC) No1907/2006 : Annex XVII (6, 28, 29, 30) CH SR 814.81 Annex 1 - Specific substances CAN Toxic Substances List - Schedule 1 from 2011-06-01 (6.)	Used to insulate steam engines, some spray-on coatings, pipe insulation, plastics and cement products	Carcinogenic	2021-May
Amosite Synonyms: Brown asbestos	12172-73-5	REGULATION (EC) No1907/2006 : Annex XVII (6, 28, 29, 30) CH SR 814.81 Annex 1 - Specific substances CAN Toxic Substances List - Schedule 1 from 2011-06-01 (6.) Prop 65	Most frequently in cement sheets and pipe insulation. Can also be found in insulating board, ceiling tiles and thermal insulation products.	Carcinogenic	2021-May
Anthophyllite Synonyms: Brown asbestos	77536-67-5	REGULATION (EC) No1907/2006 : Annex XVII (6, 28, 29, 30) CH SR 814.81 Annex 1 - Specific substances CAN Toxic Substances List - Schedule 1 from 2011-06-01 (6.) Prop 65	Used in limited quantities for insulation products and construction materials. It also occurs as a contaminant in chrysotile asbestos, vermiculite and talc. It may have a grey, dull green or white color	Carcinogenic	2021-May
Actinolite (Asbestos)	77536-66-4	REGULATION (EC) No1907/2006 : Annex XVII (6, 28, 29, 30) CH SR 814.81 Annex 1 - Specific substances CAN Toxic Substances List - Schedule 1 from 2011-06-01 (6.) Prop 65	Used in structural fire-proofing, in construction as well as for gardening purposes. Actinolite quartz is green in color.	Carcinogenic	2021-May
Tremolite (Asbestos)	77536-68-6	REGULATION (EC) No1907/2006 : Annex XVII (6, 28, 29, 30) CH SR 814.81 Annex 1 - Specific substances CAN Toxic Substances List - Schedule 1 from 2011-06-01 (6.) Prop 65	Used in industrial asbestos.	Carcinogenic	2021-May
Chrysotile Synonyms: White asbestos; Serpentine asbestos	12001-29-5 132207-32-0	REGULATION (EC) No1907/2006 : Annex XVII (6, 28, 29, 30) CH SR 814.81 Annex 1 - Specific substances CAN Toxic Substances List - Schedule 1 from 2011-06-01 (6.)	Used in asbestos cement, friction materials, roof coatings and cements, and gaskets	Carcinogenic	2021-May
Bis(2-methoxyethyl) ether	111-96-6	REGULATION (EC) No1907/2006 : Candidate List REGULATION (EC) No1907/2006 : Annex XIV (25)	Primary as a reaction solvent or process chemical. Solvent for battery electrolytes.	Toxic for reproduction	2021-May
Cadmium and its compounds	All, e.g. 7440-43-9	REGULATION (EC) No1907/2006 : Annex XVII (23, 28, 29, 30) (Reg 494/2011) CH SR 814.81 Annex 2 - Groups of preparations and articles	Pigments (red, orange, yellow), Coatings, Stabilizers, PVC, electroplate steel and corrosion protection, cathode ray tubes	Flammable Acute toxicity Hazardous to environment Serious health hazard	2021-May
Chrome (VI+) and compounds contain Cr(VI) IEC 62474 considers the following CR(VI) compounds: Barium chromate 10294-40-3, Calcium chromated 13765-19-0, Chromium trioxide 1333-82-0, Sodium chromate 7775-11-3, Sodium dichromate 10588-01-9, Strontium chromate 7789-06-2, Potassium dichromated 7778-50-9, Potassium chromate 7789-00-6, Zinc chromate 13530-65-9	All, e.g. 18540-29-9	REGULATION (EC) No1907/2006 : Candidate List REGULATION (EC) No1907/2006 : Annex XVII (28, 29, 30) REGULATION (EC) No1907/2006 : Annex XIV CAN NPRI for 2010 - Schedule 1 Part 1 Group 1 Substances CAN Toxic Substances List - Schedule 1 from 2011-06-01 (33.) Prop 65	Electric and electronic equipment covered by RoHS. Surface treatment. Pigment in primer paint, metal coatings, batteries, electroplating, corrosion inhibitor	Carcinogenic	2021-May
Dichromium tris(chromate)	24613-89-6	REGULATION (EC) No1907/2006 : Candidate List REGULATION (EC) No1907/2006 : Annex XIV	Surface treatment	Carcinogenic	2021-May
Chromic acid Including all oligomers	7738-94-5	REGULATION (EC) No1907/2006 : Candidate List REGULATION (EC) No1907/2006 : Annex XIV	Wood preservatives, surface treatments of metals	Carcinogenic, toxic for reproduction	2021-May
4,4'-Diaminodiphenylmethane (MDA) Synonyms: 4,4'-methylenedianiline; p,p'-Methylenedianiline	101-77-9 83712-44-1	REGULATION (EC) No1907/2006 : Candidate List REGULATION (EC) No 1907/2006 : Annex XIV REGULATION (EC) No1907/2006 : Annex XVII (28, 29, 30)	Hardener for plastics and adhesives	Carcinogenic	2021-May
Diarsenic pentaoxide Synonyms: Arsenic pentoxide; Arsenic oxide	1303-28-2	REGULATION (EC) No1907/2006 : Candidate List REGULATION (EC) No1907/2006 : Annex XIV REGULATION (EC) No1907/2006 : Annex XVII (19, 28, 29, 30)	Wood preservatives, in paint industry, metallurgy and in the manufacture of special glass	Carcinogenic	2021-May
Diarsenic trioxide Synonyms: Arsenic trioxide	1327-53-3	REGULATION (EC) No1907/2006 : Candidate List REGULATION (EC) No1907/2006 : Annex XIV REGULATION (EC) No1907/2006 : Annex XVII (19, 28, 29, 30)	Dyeing of glass and enamel. Used in the manufacture of special glass. Has previously been used as wood preservative.	Carcinogenic	2021-May
1,2-Dichloroethane Synonyms: Ethylene dichloride	107-06-2	REGULATION (EC) No1907/2006 : Candidate List REGULATION (EC) No1907/2006 : Annex XVII (28, 29, 30) REGULATION (EC) No1907/2006 : Annex XIV CAN NPRI for 2010 - Schedule 1 Part 1 Group 1 Substances CAN Toxic Substances List - Schedule 1 from 2011-06-01 (36.) US 40 CFR Ch. (7-1-10 Edition) #372.65(a)	Solvent	Carcinogenic	2021-May
Dichloromethane Synonyms: Methylene chloride; Methane dichloride; Methylene bichloride; Methylene dichloride	75-09-2	REGULATION (EC) No1907/2006 : Annex XVII (59) (276/2010) CH SR 814.81 Annex 1 - Specific substances CAN NPRI for 2010 - Schedule 1 Part 1 Group 1 Substances CAN Toxic Substances List - Schedule 1 from 2011-06-01 (37.) US 40 CFR Ch. (7-1-10 Edition) #372.65(a) Prop 65	Used as a solvent in paint removers, degreasing fluids, aerosol propellants and hair lacquers. It is also used in shoe manufacturing	Health hazard	2021-May
2,2'-dichloro-4,4'-methylenedianiline	101-14-4	REGULATION (EC) No1907/2006 : Candidate List REGULATION (EC) No1907/2006 : Annex XIV AUS SLI 2011 No. 262: Schedule 10	Hardener in resins and polymers	Carcinogenic	2021-May
Dibutyltin (DBT) compounds	All	REGULATION (EC) No 1907/2006 : Candidate List REGULATION (EC) No1907/2006 : Annex XVII (20)	Biocide, Catalyst, Stabilizers, Polyamide, Polyurethane (including elastane), PVC, Wood Preservative, Coatings, molding kits	Harmful and toxic to the aquatic organisms. Skin and eye irritant.	2021-May
Formaldehyde, oligomeric reaction products with aniline	25214-70-4	REGULATION (EC) No1907/2006 : Candidate List REGULATION (EC) No1907/2006 : Annex XIV Can. Tox. Subs.	Hardener for epoxy resins, for glue, paint and varnish	Carcinogenic	2021-May

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gamma-Hexabromocyclododecane	134237-52-8	REGULATION (EC) No 1907/2006 : Candidate List REGULATION (EC) No 1907/2006 : Annex XIV EPA Toxic Control Act (TSCA)	Flame retardant in plastics	Persistent, bioaccumulating and toxic.	2021-May
Lead chromate Synonyms : Lead(II) chromate; Chrome Yellow	7758-97-6	REGULATION (EC) No1907/2006 : Candidate List REGULATION (EC) No1907/2006 : Annex XIV REGULATION (EC) No1907/2006 : Annex XVII (28, 29, 30)	Dyes and pigments. Corrosion protection. Electric and electronic equipment covered by RoHS.	Carcinogenic, toxic for reproduction	2021-May
Lead chromate molybdate sulfate red Synonyms: C.1. Pigment Red 104; Molybdate orange	12656-85-8	REGULATION (EC) No1907/2006 : Candidate List REGULATION (EC) No1907/2006 : Annex XIV REGULATION (EC) No1907/2006 : Annex XVII (28, 29, 30)	Dyes and pigments. Corrosion protection	Carcinogenic, toxic for reproduction	2021-May
Lead hydrogen arsenate	7784-40-9	REGULATION (EC) No1907/2006 : Candidate List REGULATION (EC) No1907/2006 : Annex XVII (28, 29, 30) CH SR 814.81 Annex 2 - Groups of preparations and articles	Pesticide	Carcinogenic, toxic for reproduction	2021-May
Lead sulfochromate yellow Synonyms: C.1. Pigment Yellow 34	1344-37-2	REGULATION (EC) No1907/2006 : Candidate List REGULATION (EC) No1907/2006 : Annex XIV REGULATION (EC) No1907/2006 : Annex XVII (28, 29, 30)	Dyes and pigments, corrosion protection	Toxic for reproduction	2021-May
Linear Alkylbenzene Sulfonate (LABS)	67774-74-7	Graco	Detergent. Surfactant. Prevents adhesion.	Causes paint to not adhere.	2021-May
Mercury and its compounds See separate entry for phenylmercury compounds	All, e.g. 7439-97-6	REGULATION (EC) No 1907/2006 : Annex XVII (18). CH SR 814.81 Annex 1 - Specific substances CH SR 814.81 Annex 2 - Groups of preparations and articles DIRECTIVE 2011/65/EU - RoHS 2 DIRECTIVE (EU) 2015/863 - RoHS 2 Annex II CAN NPRI for 2010 - Schedule 1 Part 1 Group 1 Substances CAN Toxic Substances List - Schedule 1 from 2011-06-01 (8.) US 40 CFR Ch. (7-1-10 Edition) #372.65(a) Prop 65	Pigment, primer paint, metal coatings, electroplating, corrosion inhibitor.	Acute toxicity, hazardous to environment, serious health hazards	2021-May
Monomethyl-dibromo-diphenyl methane bromobenzylbromotoluene, mixture of isomers (DBBT)	99688-47-8	REGULATION (EC) No1907/2006 : Annex XVII (26) CH SR 814.81 Annex 1 - Specific substances	Dielectric liquids in capacitors and transformers and as hydraulic liquids in mining. Residues in polymers		2021-May
Monomethyl-dichloro-diphenyl methane Synonyms : Ugilec 121; Ugilec 21; (chlorophenyl)(chlorotolyl)methane, mixed isomers	81161-70-8	REGULATION (EC) No 1907/2006 : Annex XVII (25) CH SR 814.81 Annex 1 - Specific substances	Dielectric liquids in capacitors and transformers and as hydraulic liquids in mining. Residues in polymers		2021-May
Monomethyl — tetrachlorodiphenyl methane (Ugilec 141) Synonyms : Ugilec 141; Tetrachlorobenzyltoluol; Dichloro[(dichlorophenyl)methyl]methylbenzene, reaction mass	76253-60-6	REGULATION (EC) No 1907/2006 : Annex XVII (25) CH SR 814.81 Annex 1 - Specific substances	Dielectric liquids in capacitors and transformers and as hydraulic liquids in mining. Residues in polymers		2021-May
Musk xylene Synonyms: 5-tert-butyl-2,4,6-trinitro-m-xylene	81-15-2	REGULATION (EC) No1907/2006 : Candidate List REGULATION (EC) No 1907/2006 : Annex XIV	Used in rinsing agents, detergents and metal polish	Very persistent and very bioaccumulating	2021-May
Ozone depleting substances (see below list)		Montreal Protocol Ozone Treaties REGULATION (EC) No 2037/2000 - OzDS of EU Parliament and of the Council of 29 June 2000	Cooling agent in refrigeration, air conditioning and heat pumps; solvents and cleaning agents	Deplete ozone layer	2021-May
Carbon tetrachloride Synonyms : Tetrachloromethane	56-23-5	CH SR 814.81 Annex 1 - Specific substances CH SR 814.81 Annex 2 - Groups of preparations and articles REGULATION (EC) No 2037/2000 - OzDS	Degreasing	Deplete ozone layer	2021-May
Chlorofluorocarbons; CFCs Limited to: CFC13 (CFC-11), C2F2Cl2 (CFC-12), C2F3Cl3 (CFC-113), C2F4Cl2 (CFC-114), C2F5Cl (CFC-115), C3FC1 (CFC-13), C2FC15 (CFC-111), C2F2Cl4 (CFC-112), C3FC17 (CFC-211), C3F2Cl6 (CFC-212), C3F3Cl5 (CFC-213), C3F4Cl4 (CFC-214), C3F5Cl3 (CFC-215), C3F6Cl2 (CFC-216), C3F7Cl (CFC-217)	ex: 75-69-4, 75-13-1 76-14-2, 76-15-3, 75-71-8	CH SR 814.81 Annex 1 - Specific substances CH SR 814.81 Annex 2 - Groups of preparations and articles REGULATION (EC) No 2037/2000 - OzDS CAN NPRI for 2010 - Schedule 1 Part 1 Group 1 Substances CAN Toxic Substances List - Schedule 1 from 2011-06-01 (4.)	Used in the manufacture of aerosol sprays, blowing agents for foams and packing materials, as solvents, and as refrigerant	Deplete ozone layer	2021-May
1,2-Dibromotetrafluoroethane Synonyms: Halon 2402	124-73-2	CH SR 814.81 Annex 1 - Specific substances CH SR 814.81 Annex 2 - Groups of preparations and articles REGULATION (EC) No 2037/2000 - OzDS CAN Toxic Substances List - Schedule 1 from 2011-06-01 (12.) US 40 CFR Ch. (7-1-10 Edition) #372.65(a)	Fire extinguisher	Deplete ozone layer	2021-May
1,2-Dichloro-1,1,2-tetrafluoroethane Synonyms: R 114; CFC 114	76-14-2	CH SR 814.81 Annex 1 - Specific substances CH SR 814.81 Annex 2 - Groups of preparations and articles REGULATION (EC) No 2037/2000 - OzDS CAN NPRI for 2010 - Schedule 1 Part 1 Group 1 Substances CAN Toxic Substances List - Schedule 1 from 2011-06-01 (4.) US 40 CFR Ch. (7-1-10 Edition) #372.65(a)	Cooling agent	Deplete ozone layer	2021-May
Dichlorodifluoromethane Synonyms : Difluorodichloromethane, R 12; CFC 12; Halon 122	75-71-8	CH SR 814.81 Annex 1 - Specific substances CH SR 814.81 Annex 2 - Groups of preparations and articles REGULATION (EC) No 2037/2000 - OzDS	Cooling agent	Deplete ozone layer	2021-May
Halons	353-59-3 75-63-8 124-73-2	CH SR 814.81 Annex 1 - Specific substances CH SR 814.81 Annex 2 - Groups of preparations and articles REGULATION (EC) No 2037/2000 - OzDS	Fire extinguisher	Deplete ozone layer	2021-May
1,1,1-Trichloroethane Synonyms: Methyl chloroform; Solvent 111; 1,1,1-TCE	71-55-6	REGULATION (EC) No1907/2006 : Annex XVII (39). CH SR 814.81 Annex 1 - Specific substances CH SR 814.81 Annex 2 - Groups of preparations and articles	Degreasing	Deplete ozone layer	2021-May
1,1,2-Trichloro-1,2,2-trifluoroethane Synonyms: 1,1,2-trichlorotrifluoroethane; R 113; CFC 113	76-13-1	CH SR 814.81 Annex 1 - Specific substances CH SR 814.81 Annex 2 - Groups of preparations and articles REGULATION (EC) No 2037/2000 - OzDS	Cooling agent	Deplete ozone layer	2021-May
Methyl bromide	74-83-9	CH SR 814.81 Annex 1 - Specific substances CH SR 814.81 Annex 2 - Groups of preparations and articles REGULATION (EC) No 2037/2000 - OzDS CAN NPRI for 2010 - Schedule 1 Part 1 Group 1 Substances CAN Toxic Substances List - Schedule 1 from 2011-06-01 (22.) US 40 CFR Ch. (7-1-10 Edition) #372.65(a)	Used to control a wide variety of pests in agriculture and shipping, including fungi, weeds, insects, nematodes (or roundworms), and rodents.	Deplete ozone layer	2021-May
Monochloropentafluoroethane Synonyms: R 115; chloropentafluoroethane; F 115; Freon 115; CFC 115	76-15-3	REGULATION (EC) No 2037/2000 - OzDS CAN NPRI for 2010 - Schedule 1 Part 1 Group 1 Substances CAN Toxic Substances List - Schedule 1 from 2011-06-01 (4.) US 40 CFR Ch. (7-1-10 Edition) #372.65(a)	Cooling agent	Deplete ozone layer	2021-May
Hydrobromofluorocarbons; HBFCs Limited to: CHFBr2, CHF2Br, CH2FBr, C2HF2Br4, C2HF2Br3, C2HF3Br2, C2HF4Br, C2H2FBr3, C2H2F2Br2, C2H2F3Br, C2H3FBr2, C2H3F2Br, C2H4FBr, C3HF6Br, C3HF2Br5, C3HF3Br4, C3HF4Br3, C3HF5Br2, C3HF6Br, C3HF2Br5, C3H2F2Br4, C3H2F3Br3, C3H2F4Br2, C3H2F5Br, C3H3FBr4, C3H3F2Br3, C3H3F3Br2, C3H3F4Br, C3H4FBr3, C3H4F2Br2, C3H4F3Br, C3H5FBr2, C3H5F2Br, C3H6FBr		CH SR 814.81 Annex 1 - Specific substances CH SR 814.81 Annex 2 - Groups of preparations and articles REGULATION (EC) No 2037/2000 - OzDS CAN Toxic Substances List - Schedule 1 from 2011-06-01 (21.)	Used in fire suppression systems and fire fighting.	Deplete ozone layer	2021-May
Hydrochlorofluorocarbons; HCFCs Limited to: HCFC-21, HCFC-22, HCFC-31, HCFC-121, HCFC-122, HCFC-123, HCFC-124, HCFC-131, HCFC-132, HCFC-133, HCFC-141, HCFC-141b, HCFC-142, HCFC-142b, HCFC-151, HCFC-221, HCFC-222, HCFC-223, HCFC-224, HCFC-225, HCFC-225ca, HCFC-225cb, HCFC-226, HCFC-231, HCFC-232, HCFC-233, HCFC-234, HCFC-235, HCFC-241, HCFC-242, HCFC-243, HCFC-244, HCFC-251, HCFC-252, HCFC-253, HCFC-261, HCFC-262, HCFC-271		CH SR 814.81 Annex 1 - Specific substances CH SR 814.81 Annex 2 - Groups of preparations and articles REGULATION (EC) No 2037/2000 - OzDS CAN NPRI for 2010 - Schedule 1 Part 1 Group 1 Substances CAN Toxic Substances List - Schedule 1 from 2011-06-01 (25.)	Used as refrigerants and for making plastic foams producing refrigerators and freezers.	Deplete ozone layer	2021-May
PAH:s - see below selected list		REGULATION (EC) No 1907/2006 : Candidate List REGULATION (EC) No1907/2006 : Annex XVII (28, 29, 30, 50) CH SR 814.81 Annex 2 - Groups of preparations and articles	Impurity in softening oils, impurity in black pigment (carbon black), rubbers, dark polymers, tires	Carcinogenic	2021-May
Benzo[a]pyrene (BaP) Synonyms : Benzo(def)chrysene; 3,4-Benzpyrene; Benzo(d,e,f)chrysene	50-32-8	REGULATION (EC) No 1907/2006 : Candidate List REGULATION (EC) No1907/2006 : Annex XVII (28, 29, 30, 50) CH SR 814.81 Annex 2 - Groups of preparations and articles		Carcinogenic	2021-May
Benzo[e]pyrene (BeP)	192-97-2	REGULATION (EC) No1907/2006 : Annex XVII (28, 29, 30, 50) CH SR 814.81 Annex 2 - Groups of preparations and articles		Carcinogenic	2021-May

Substance	CAS number	Legislation	Examples of Use	Reason for Control	Added/ Revised
Benzo[a]anthracene (BaA)	56-55-3	REGULATION (EC) No1907/2006 : Annex XVII (28, 29, 30, 50) CH SR 814.81 Annex 2 - Groups of preparations and articles	Normally not produced intentionally but rather occurs as a constituent or impurity in other substances	Carcinogenic	2021-May
Chrysen (CHR)	218-01-9	"REGULATION (EC) No1907/2006 : Annex XVII (28, 29, 30, 50) CH SR 814.81 Annex 2 - Groups of preparations and articles"	Normally not produced intentionally but rather occurs as a constituent or impurity in other substances	Carcinogenic	2021-May
Benzo[b]fluoranthene (BbFA)	205-99-2	REGULATION (EC) No1907/2006 : Annex XVII (28, 29, 30, 50) CH SR 814.81 Annex 2 - Groups of preparations and articles		Carcinogenic	2021-May
Benzo[k]fluoranthene (BkFA)	205-82-3	REGULATION (EC) No1907/2006 : Annex XVII (28, 29, 30, 50) CH SR 814.81 Annex 2 - Groups of preparations and articles	Used as experimental carcinogen in biochemical research	Carcinogenic	2021-May
Benzo[k]fluoranthene (BkFA)	207-08-9	REGULATION (EC) No 1907/2006 : Candidate List REGULATION (EC) No1907/2006 : Annex XVII (28, 29, 30, 50) CH SR 814.81 Annex 2 - Groups of preparations and articles	Impurities in carbon black, which is used as coloring agent in plastic and softener in rubbers	Carcinogenic	2021-May
Dibenzo[a,h]anthracene (DBAha)	53-70-3	REGULATION (EC) No1907/2006 : Annex XVII (28, 29, 30, 50) CH SR 814.81 Annex 2 - Groups of preparations and articles	Primarily found in gasoline exhaust, tobacco smoke, coal tar, soot and certain food products, especially smoked and barbecued foods	Carcinogenic	2021-May
PCTs: Polychlorinated terphenyls Not otherwise specified Synonyms: Terphenyl, chlorinated	All, e.g. 61788-33-8	REGULATION (EC) No 1907/2006 : Annex XVII (1.) CAN Toxic Substances List - Schedule 1 from 2011-06-01 (5.)	Capacitors, transformers, hydraulic fluids, additives in polymers	Carcinogenic	2021-May
Pentazinc chromate octahydroxide	49663-84-5	REGULATION (EC) No1907/2006 : Candidate List REGULATION (EC) No1907/2006 : Annex XIV	Surface treatment and as pigment in paint	Toxic for reproduction	2021-May
Perfluorooctanoic acid (PFOA) and its salts	All, e.g. 335-67-1	REGULATION (EC) No1907/2006 : Candidate List REGULATION (EC) No1907/2006 : Annex XIV CAN REGULATION SOR/2012-285	Water and stain repellent Surfactant in the emulsion polymerization of fluoropolymers	Toxic for reproduction	2021-May
Phenylmercury substances (see below list)		Graco	Mainly used as catalysts in the production of polyurethane coatings, adhesives, sealants and elastomers	Toxic	2021-May
Phenylmercury acetate	62-38-4	Graco	Mainly used as catalysts in the production of polyurethane coatings, adhesives, sealants and elastomers	Toxic	2021-May
Phenylmercury propionate	103-27-5	Graco	Mainly used as catalysts in the production of polyurethane coatings, adhesives, sealants and elastomers	Toxic	2021-May
Phenylmercury 2-ethylhexanoate	13302-00-6	Graco	Mainly used as catalysts in the production of polyurethane coatings, adhesives, sealants and elastomers	Toxic	2021-May
Phenylmercury octanoate	13864-38-5	Graco	Mainly used as catalysts in the production of polyurethane coatings, adhesives, sealants and elastomers	Toxic	2021-May
Phenylmercury neodecanoate	26545-49-3	Graco	Mainly used as catalysts in the production of polyurethane coatings, adhesives, sealants and elastomers	Toxic	2021-May
Phthalates - see below selected list		REGULATION (EC) No1907/2006 : Candidate List REGULATION (EC) No 1907/2006 : Annex XIV REGULATION (EC) No1907/2006 : Annex XVII (28, 29, 30, 51) CAN NPRI for 2010 - Schedule 1 Part 1 Group 1 Substances CAN Toxic Substances List - Schedule 1 from 2011-06-01 (30.) US 40 CFR Ch. (7-1-10 Edition) #372.65(a) Prop 65	Plastics, resin diluent, plasticizer, polymers, rubbers, elastomers, adhesives, rubbing alcohol, liquid soap, detergents, paints, lacquers, industrial and lubricating oils, defoaming agents during paper and paperboard manufactures, wire and cable, insulating fluid.	Serious effect to environment, toxic for reproduction, endocrine disrupting properties	2021-May
Di-(2-ethylhexyl) phthalate (DEHP) Synonyms : Bis(2-ethylhexyl) phthalate; Di-iso-octyl phthalate	117-81-7	REGULATION (EC) No1907/2006 : Candidate List REGULATION (EC) No 1907/2006 : Annex XIV REGULATION (EC) No1907/2006 : Annex XVII (28, 29, 30, 51) CAN NPRI for 2010 - Schedule 1 Part 1 Group 1 Substances CAN Toxic Substances List - Schedule 1 from 2011-06-01 (30.) US 40 CFR Ch. (7-1-10 Edition) #372.65(a) Prop 65	Used as plasticizer in PVC, occurs also in colors, plastic, rubber, glue, filling medium and raw materials in paints. Used in cable and wire insulation, dielectric in large high voltage capacitors, processing aid for rigid polymers.	Toxic for reproduction, endocrine disrupting properties	2021-May
Benzyl butyl phthalate (BBP)	85-68-7	REGULATION (EC) No1907/2006 : Candidate List REGULATION (EC) No 1907/2006 : Annex XIV REGULATION (EC) No1907/2006 : Annex XVII (28, 29, 30, 51) DIRECTIVE 2011/65/EU - RoHS 2 DIRECTIVE (EU) 2015/863 - RoHS 2 Annex II CAN NPRI for 2010 - Schedule 1 Part 1 Group 1 Substances Prop 65	Used as plasticizer in polymer products mainly PVC, occurs colors, materials to plastic, rubber, glue, filling medium and raw materials in paints	Toxic for reproduction, endocrine disrupting properties	2021-May
Dibutyl phthalate (DBP) Synonyms : o-Benzenedicarboxylic acid dibutyl ester; Dibutyl 1,2-benzenedicarboxylate	84-74-2	REGULATION (EC) No1907/2006 : Candidate List REGULATION (EC) No 1907/2006 : Annex XIV REGULATION (EC) No1907/2006 : Annex XVII (28, 29, 30, 51) CAN NPRI for 2010 - Schedule 1 Part 1 Group 1 Substances US 40 CFR Ch. (7-1-10 Edition) #372.65(a) Prop 65	Occurs in various articles of plastic, mainly PVC. Plasticizer in flexible varnishes, nitrocellulose paints, and paper coatings, used to size glass fiber and to add flexibility to rubber and paint. Occures in glue, paints, plastics, rubber, etc.	Toxic for reproduction, endocrine disrupting properties	2021-May
Diisobutyl phthalate (DIBP)	84-69-5	REGULATION (EC) No1907/2006 : Candidate List REGULATION (EC) No 1907/2006 : Annex XIV REGULATION (EC) No1907/2006 : Annex XVII (28, 29, 30, 51) DIRECTIVE 2011/65/EU - RoHS 2 DIRECTIVE (EU) 2015/863 - RoHS 2 Annex II Prop 65	Plasticizer similar to DBP. Solvent in adhesives, inks for paper and packaging	Persistent, bioaccumulating and toxic. Very persistent and very bioaccumulating. Toxic for reproduction.	2021-May
Polybrominated biphenyls (PBB) Synonyms : di-, tetra-, hexa-, octa-, deca-bromobiphenyl	92-86-4 60044-25-9 36355-01-8 59536-65-1 27858-07-7 13654-09-6	REGULATION (EC) No 1907/2006 : Annex XVII (8.) CH SR 814.81 Annex 1 - Specific substances DIRECTIVE 2011/65/EU - RoHS 2 DIRECTIVE (EU) 2015/863 - RoHS 2 Annex II REGULATION (EC) No 850/2004 - POP CAN REGULATION SOR/2012-285 CAN Toxic Substances List - Schedule 1 from 2011-06-01 (3.)	Electrical and electronic equipment	Persistent, bioaccumulating and toxic. Very persistent and very bioaccumulating.	2021-May
Polybrominated dibiphenyl-ethers (PBDE)	92-86-4 60044-25-9 36355-01-8 59536-65-1 27858-07-7 13654-09-6	REGULATION (EC) No 1907/2006 : Annex XVII (8.) CH SR 814.81 Annex 1 - Specific substances DIRECTIVE 2011/65/EU - RoHS 2 DIRECTIVE (EU) 2015/863 - RoHS 2 Annex II REGULATION (EC) No 850/2004 - POP CAN REGULATION SOR/2012-285 CAN Toxic Substances List - Schedule 1 from 2011-06-01 (3.)	Electrical and electronic equipment	Health hazard, acute toxicity to aquatic organisms	2021-May
Polychlorinated Biphenyls (PCB) Not otherwise specified Synonyms : Askarele; Chlophene; 1,1'-Biphenyl, chloro derivatives	All, e.g. 1336-36-3	CH SR 814.81 Annex 2 - Groups of preparations and articles REGULATION (EC) No 850/2004 - POP CAN Toxic Substances List - Schedule 1 from 2011-06-01 (1.) US 40 CFR Ch. (7-1-10 Edition) #372.65(a) AUS SLI 2011 No. 262	Capacitors, transformers, hydraulic fluids, additives in polymers	Carcinogenic	2021-May
Potassium hydroxyoctaoxodizincatedichromate	11103-86-9	REGULATION (EC) No1907/2006 : Candidate List REGULATION (EC) No1907/2006 : Annex XIV	Surface coating of metals	Carcinogenic	2021-May
Silicone oils	63148-62-9	Graco Eng Standard 4.1208	Silicone oils are primarily used as lubricants, thermic fluid oils or hydraulic fluids. I.e. mold release. Surfactant. Prevents adhesion.	Causes paint to not adhere.	2021-May
Tetrabromobisphenol A (TBBP-A) & its derivatives	79-94-7 (201-236-9)	Graco (Likely to be added to RoHS restriction list by 2025)	Computer monitors, tablets, notebook computers, printers, office machines, TV sets, other consumer electronics (electric toothbrush and straightener),	Toxic	2021-May
Tetrachloroethylene (Perc) Synonyms : 1,1,2,2-tetrachloroethylene; ethylene tetrachloride; carbon dichloride; carbon bichloride; perchloroethylene	127-18-4	CH SR 814.81 Annex 1 - Specific substances CAN NPRI for 2010 - Schedule 1 Part 1 Group 1 Substances CAN Toxic Substances List - Schedule 1 from 2011-06-01 (44.) US 40 CFR Ch. (7-1-10 Edition) #372.65(a) Prop 65 EPA Toxic Control Act (TSCA) - (likely to be added in 2021 or early 2022)	Degreasing	Carcinogenic, hazardous to aquatic organisms	2021-May

Substance	CAS number	Legislation	Examples of Use	Reason for Control	Added/ Revised
Carbon tetrachloride <i>Synonyms:</i> Tetrachloromethane	56-23-5	CH SR 814.81 Annex 1 - Specific substances CH SR 814.81 Annex 2 - Groups of preparations and articles REGULATION (EC) No 2037/2000 - OzDS CAN NPRI for 2010 - Schedule 1 Part 1 Group 1 Substances CAN Toxic Substances List - Schedule 1 from 2011-06-01 (18.) US 40 CFR Ch. (7-1-10 Edition) #372.65(a) AUS SLJ 2011 No. 262: Schedule 10 Prop 65	Degreasing	Carcinogenic	2021-May
Trichloroethylene (TCE) <i>Synonyms:</i> Trichloroethene	79-01-6	REGULATION (EC) No 1907/2006 : Candidate List REGULATION (EC) No 1907/2006 : Annex XIV REGULATION (EC) No 1907/2006 : Annex XVII (28, 29, 30) CH SR 814.81 Annex 1 - Specific substances CAN NPRI for 2010 - Schedule 1 Part 1 Group 1 Substances CAN Toxic Substances List - Schedule 1 from 2011-06-01 (45.) US 40 CFR Ch. (7-1-10 Edition) #372.65(a) Prop 65 EPA Toxic Control Act (TSCA) - (likely to be added in 2021 or early 2022)	Solvent, cleaning agent	Carcinogenic	2021-May
Triethyl Arsenate	15606-95-8	REGULATION (EC) No1907/2006 : Candidate List REGULATION (EC) No1907/2006 : Annex XIV	May occur in the electronics industry in integrated circuits	Carcinogenic	2021-May
Tris(2-chloroethyl)phosphate <i>Synonyms:</i> Ethanol, 2-chloro-, phosphate (3:1)	115-96-8	REGULATION (EC) No 1907/2006 : Annex XIV REGULATION (EC) No 1907/2006 : Candidate List CAN Toxic Substances List - Schedule 1 from 2011-06-01 (112.)	Additive flame retardant for plastics. Flame retardant paints lacquers and adhesives	Toxic for reproduction	2021-May
Medium Chain Chlorinated Paraffins (MCCPs)	1309-64-4 (215-175-0)	Likely to be added to RoHS restriction list by 2025	Flame retardant in plastics, cables, wires and PCBx		2021-May
Pigment Violet 29 (PV29)	81-33-4	Graco EPA Toxic Control Act (TSCA) - (likely to be added in 2021 or early 2022)	Pigment used in vat dye	Toxic	2021-May
N-Methylpyrrolidone (NMP)	872-50-4	Graco EPA Toxic Control Act (TSCA) - (likely to be added in 2021 or early 2022)	Solvent used in a variety of industries and applications, such as paint and coating removal, petrochemical processing, engineering plastics coatings, agricultural chemicals, electronic cleaning and industrial/domestic cleaning.	Toxic	2021-May
1,4-Dioxane	123-91-1	Graco EPA Toxic Control Act (TSCA) - (likely to be added in 2021 or early 2022)	Used as a purifying agent in the manufacture of pharmaceuticals and is a by- product in the manufacture of polyethylene terephthalate (PET) plastic (Mohr 2001)	Toxic	2021-May
1-Bromopropane (1-DP)	106-94-5	Graco EPA Toxic Control Act (TSCA) - (likely to be added in 2021 or early 2022)	Vapor and immersion degreasing operations for cleaning metals, plastics and electronic and optical components; Adhesive spray applications; Dry cleaning; and. Solvent sprays used in operations like asphalt production, aircraft maintenance, and synthetic fiber manufacturing.	Toxic	2021-May
Cyclic Aliphatic Bromide Cluster (HBCD)		Graco EPA Toxic Control Act (TSCA) - (likely to be added in 2021 or early 2022)	Primarily used as a flame retardant in building materials like insulation, solder paste, recycled plastics, and automobile replacement parts.	Toxic	2021-May
Methylene Chloride (MeCl)	75-09-2	Graco EPA Toxic Control Act (TSCA) - (likely to be added in 2021 or early 2022)	Used as an effective reaction and re-crystallization solvent in the extraction of several pharmaceutical compounds and in the production of many antibiotics and vitamins.	Toxic	2021-May
Tributyl Tin (TBT), Triphenyl Tin (TPT), Tributyl Tin Oxide (TBTO)	892-20-6 56-35-9	Multiple International Bans International Maritime Organization The Convention on the Control of Harmful Anti-fouling Systems on Ships	Used as a biocide in anti-fouling paint, commonly known as bottom paint, applied to the hulls of ocean going vessels.	Persistent organic pollutant	2021-May
Bis(2-ethylhexyl) phthalate (DEHP)	117-81-7	Graco REGULATION (EC) No1907/2006 : Candidate List REGULATION (EC) No1907/2006 : Annex XVII (4)	Used in various types of plastic consumer products: Some shower curtains, furniture and automobile upholstery, garden hoses, floor tiles, and coverings on wires and cables. Some rainwear and shoes. Some lunchboxes, binders, and backpacks.	Toxic for reproduction	2021-May
Benzyl butyl phthalate (BBP)	85-68-7	Graco REGULATION (EC) No1907/2006 : Candidate List REGULATION (EC) No1907/2006 : Annex XVII (5)	Mainly used as an additive for plasticising PVC or other polymers	Toxic for reproduction	2021-May
Dibutyl phthalate (DBP)	84-74-2	Graco REGULATION (EC) No1907/2006 : Candidate List REGULATION (EC) No1907/2006 : Annex XVII (6)	Used to make plastics more flexible	Toxic for reproduction	2021-May
2,4-dinitrotoluene (2,4-DNT)	121-14-2	Graco REGULATION (EC) No1907/2006 : Candidate List REGULATION (EC) No1907/2006 : Annex XVII (14)	Used to produce flexible polyurethane foams	Carcinogenic	2021-May
Ammonium dichromate	9/5/7789	Graco REGULATION (EC) No1907/2006 : Candidate List REGULATION (EC) No1907/2006 : Annex XVII (20)	Used in pyrotechnics and in the early days of photography as well as in lithography, as a source of pure nitrogen in the laboratory, and as a catalyst. It is also used as a mordant for dyeing pigments, in the manufacturing of alizarin, chrome alum, leather tanning and oil purification	Toxic for reproduction Carcinogenic Mutagenic	2021-May
Sodium chromate	11/3/7775	Graco REGULATION (EC) No1907/2006 : Candidate List REGULATION (EC) No1907/2006 : Annex XVII (22)	Used as corrosion inhibitor, pigment formulations, wool dyeing, wood preservation, drilling fluids, catalysts and as oxidant in organic synthesis	Toxic for reproduction Carcinogenic Mutagenic	2021-May
Strontium chromate	6/2/7789	Graco REGULATION (EC) No1907/2006 : Candidate List REGULATION (EC) No1907/2006 : Annex XVII (29)	Used as a metal protective coating to prevent corrosion, as a colorant in polyvinyl chloride resins, and in pyrotechnics	Carcinogenic	2021-May
diisopentylphthalate	605-50-5	Graco REGULATION (EC) No1907/2006 : Candidate List REGULATION (EC) No1907/2006 : Annex XVII (33)	Plasticizer for nitrocellulose and resin lacquers; preventing foam in manufacture of glue; in rubber cements	Toxic for reproduction	2021-May
1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6	Graco REGULATION (EC) No1907/2006 : Candidate List REGULATION (EC) No1907/2006 : Annex XVII (34)		Toxic for reproduction	2021-May
1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4	Graco REGULATION (EC) No1907/2006 : Candidate List REGULATION (EC) No1907/2006 : Annex XVII (35)		Toxic for reproduction	2021-May
1,2-Benzenedicarboxylic acid, dipentyl ester, branched and linear	84777-06-0	Graco REGULATION (EC) No1907/2006 : Candidate List REGULATION (EC) No1907/2006 : Annex XVII (36)		Toxic for reproduction	2021-May
Bis(2-methoxyethyl) phthalate	117-82-8	Graco REGULATION (EC) No1907/2006 : Candidate List REGULATION (EC) No1907/2006 : Annex XVII (37)	Used as a plasticizer, especially for cellulose acetate, and as a solvent	Toxic for reproduction	2021-May
Dipentyl phthalate	131-18-0	Graco REGULATION (EC) No1907/2006 : Candidate List REGULATION (EC) No1907/2006 : Annex XVII (38)	Used in many industrial and consumer products, primarily as an additive in polyvinylchloride (PVC) products to make them flexible and resilient	Toxic for reproduction	2021-May
n-pentyl-isopentylphthalate	776297-69-9	Graco REGULATION (EC) No1907/2006 : Candidate List REGULATION (EC) No1907/2006 : Annex XVII (39)		Toxic for reproduction	2021-May
[A complex combination of polycyclic aromatic hydrocarbons obtained from coal tar having an approximate distillation range of 300 °C to 400 °C (572 °F to 752 °F). Composed primarily of phenanthrene, anthracene and carbazole.]	90640-80-5	Graco REGULATION (EC) No1907/2006 : Candidate List REGULATION (EC) No1907/2006 : Annex XVII (40)		Carcinogenic (very) Persistent, (very) Bioaccumulative and/or Toxic chemicals (PBT and vPvB)	2021-May
[The residue from the distillation of high temperature coal tar. A black solid with an approximate softening point from 30 °C to 180 °C (86 °F to 356 °F). Composed primarily of a complex mixture of three or more membered condensed ring aromatic hydrocarbons.;pitch, coal tar, high-temp.,	65996-93-2	REGULATION (EC) No1907/2006 : Candidate List REGULATION (EC) No1907/2006 : Annex XVII (41)		Carcinogenic (very) Persistent, (very) Bioaccumulative and/or Toxic chemicals (PBT and vPvB)	2021-May

Substance	CAS number	Legislation	Examples of Use	Reason for Control	Added/ Revised
4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated					2021-May
covering well-defined substances and UVCB substances, polymers and homologues					2021-May
Polyethylene glycol mono(tert-octylph-enyl) ether9036-19-5 EC No.: 618-541-1   CAS No.: 9036-19-5					2021-May
2-[4-(2,4,4-trimethylpentan-2-yl)phenoxy]ethanol EC No.: 618-344-0   CAS No.: 9002-93-1					2021-May
20-[4-(1,1,3,3-tetramethylbutyl)phenoxy]-3,6,9,12,15,18-hexaooxacosan-1-ol EC No.: 219-682-8   CAS No.: 2497-59-8					2021-May
2-[4-(1,1,3,3-tetramethylbutyl)phenoxy]ethanol EC No.: 621-345-9   CAS No.: 2315-67-5					2021-May
2-[2-[4-(2,4,4-trimethylpentan-2-yl)phenoxy]ethoxy]ethanol EC No.: 621-341-7   CAS No.: 2315-61-9					2021-May
4-Nonylphenol, branched and linear, ethoxylated					2021-May
substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, ethoxylated covering UVCB- and well-defined substances, polymers and homologues, which include any of the individual isomers and/or combinations thereof					2021-May
26-(4-Nonylphenoxy)-3,6,9,12,15,18,21,24-octaoxahexacosan -1-ol EC No.: 604-395-6   CAS No.: 14409-72-4					2021-May
Nonylphenol, branched, ethoxylated (CAS# 68412-54-4) EC No.: 932-688-1   CAS No.: -					2021-May
Nonylphenol, branched, ethoxylated EC No.: 500-209-1   CAS No.: 68412-54-4					2021-May
2-[2-(4-nonylphenoxy)ethoxy]ethanol EC No.: 500-045-0   CAS No.: 26027-38-3					2021-May
Nonylphenol, ethoxylated EC No.: 500-024-6   CAS No.: 9016-45-9					2021-May
Nonylphenol, ethoxylated (10-EO) (9016-45-9) EC No.: 931-755-2   CAS No.: -					2021-May
20-(4-nonylphenoxy)-3,6,9,12,15,18-hexaoxacosan-1-ol EC No.: 248-743-1   CAS No.: 27942-27-4					2021-May
Nonylphenol, ethoxylated (8-EO) (9016-45-9) EC No.: 931-754-7   CAS No.: -					2021-May
Nonylphenol, ethoxylated (6,5-EO) (9016-45-9) EC No.: 931-753-1   CAS No.: -					2021-May
2-[2-[2-(4-nonylphenoxy)ethoxy]ethoxy]ethoxy]ethanol EC No.: 230-770-5   CAS No.: 7311-27-5					2021-May
Nonylphenol, ethoxylated (15-EO) (9016-45-9) EC No.: 931-756-8   CAS No.: -					2021-May
2-[2-(4-nonylphenoxy)ethoxy]ethanol EC No.: 243-816-4   CAS No.: 20427-84-3					2021-May
3,6,9,12-Tetraoxatetradecan-1-ol, 14-(4-nonylphenoxy)- EC No.: -   CAS No.: 20636-48-0					2021-May
14-(nonylphenoxy)-3,6,9,12-tetraoxatetradecan-1-ol EC No.: 247-555-7   CAS No.: 26264-02-8					2021-May
26-(nonylphenoxy)-3,6,9,12,15,18,21,24-octaoxahexacosan-1-ol EC No.: 247-816-5   CAS No.: 26571-11-9					2021-May
23-(nonylphenoxy)-3,6,9,12,15,18,21-heptaoxatricosan-1-ol EC No.: 248-293-6   CAS No.: 27177-05-5					2021-May
4-Nonylphenol, branched, ethoxylated;Poly(oxy-1,2-ethanediyl), α-(4-nonylphenyl)-ω-hydroxy-, branched EC No.: 500-315-8   CAS No.: 127087-87-0					2021-May
4-t-Nonylphenol-diethoxylate EC No.: -   CAS No.: 156609-10-8					2021-May
Nonylphenol, ethoxylated (EO = 10) EC No.: 939-993-9   CAS No.: -					2021-May
Nonylphenol, ethoxylated (EO = 4) EC No.: 939-975-0   CAS No.: -					2021-May
Nonylphenol, ethoxylated (polymer) EC No.: 938-618-6   CAS No.: -					2021-May
2-[2-[4-(3,6-dimethylheptan-3-yl)phenoxy]ethoxy]ethanol EC No.: 687-833-9   CAS No.: 1119449-38-5					2021-May
2-[4-(3,6-dimethylheptan-3-yl)phenoxy]ethanol EC No.: 687-832-3   CAS No.: 1119449-37-4					2021-May
Nonylphenolpolyglycoether EC No.: 932-998-7   CAS No.: -					2021-May
Poly (oxy-1,2-ethanediyl), alpha -(nonylphenyl)-omega-hydroxy-, branched (CAS# 68412-54-4) EC No.: 932-337-2   CAS No.: 68412-54-4					2021-May
4-Nonylphenol, branched, ethoxylated (CAS: 127087-87-0) EC No.: 932-098-4   CAS No.: 127087-87-0					2021-May

Substance	CAS number	Legislation	Examples of Use	Reason for Control	Added/ Revised
Ethanol, 2-(4-nonylphenoxy)- EC No.: -   CAS No.: 104-35-8					2021-May
Poly(oxy-1,2-ethanediyl), a-(nonylphenyl)-w-hydroxy- (CAS 9016-45-9) EC No.: 931-562-3   CAS No.: 9016-45-9					2021-May
p-Nonylphenol hexaethoxylate EC No.: -   CAS No.: 34166-38-6					2021-May
Isononylphenol, ethoxylated EC No.: 609-346-2   CAS No.: 37205-87-1					2021-May
1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	Graco REGULATION (EC) No1907/2006 : Candidate List REGULATION (EC) No1907/2006 : Annex XVII (44)		Toxic for reproduction	2021-May
Dihexyl phthalate	84-75-3	Graco REGULATION (EC) No1907/2006 : Candidate List REGULATION (EC) No1907/2006 : Annex XVII (45)	Used as a plasticizer (with low temperature flexibility, low viscosity) for polyvinyl chloride, polyvinyl acetate, rubbers, cellulose plastics and polyurethane.	Toxic for reproduction	2021-May
1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters or mixed decyl and hexyl and octyl diesters		Graco REGULATION (EC) No1907/2006 : Candidate List REGULATION (EC) No1907/2006 : Annex XVII (46)		Toxic for reproduction	2021-May
with ≥ 0.3% of dihexyl phthalate (EC No. 201-559-5)					2021-May
1,2-Benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters EC No.: 272-013-1   CAS No.: 68648-93-1					2021-May
1,2-Benzenedicarboxylic acid, di-C6-10-alkyl esters EC No.: 271-094-0   CAS No.: 68515-51-5					2021-May
trixyl phosphate	25155-23-1	Graco REGULATION (EC) No1907/2006 : Candidate List REGULATION (EC) No1907/2006 : Annex XVII (47)	Used for hydraulic fluids (transferring power in hydraulic machinery), lubricants (decreases friction between surfaces), greases (semisolid lubricants), metal working fluids, polymer preparations and compounds	Toxic for reproduction	2021-May
Sodium perborate, perboric acid, sodium salt		Graco REGULATION (EC) No1907/2006 : Candidate List REGULATION (EC) No1907/2006 : Annex XVII (48)	Used as a disinfectant. Serves as a stable source of active oxygen in many detergents, laundry detergents, cleaning products, and laundry bleaches	Toxic for reproduction	2021-May
Sodium perborate EC No.: 239-172-9   CAS No.: 15120-21-5					2021-May
Perboric acid, sodium salt EC No.: 234-390-0   CAS No.: 11138-47-9					2021-May
Borate(2-), tetrahydroxybis[μ-(peroxy-κO1:κO2)]di-, sodium, hydrate (1.2:6) EC No.: -   CAS No.: 125022-34-6					2021-May
Borate(2-), tetrahydroxybis[μ-(peroxy-κO1:κO2)]di-, sodium (1:2) EC No.: -   CAS No.: 90568-23-3					2021-May
Perboric acid (H3BO2(O2)), monosodium salt, trihydrate EC No.: 603-902-8   CAS No.: 13517-20-9					2021-May
Sodium peroxometaborate	4/4/7632 7632-04-4	Graco REGULATION (EC) No1907/2006 : Candidate List REGULATION (EC) No1907/2006 : Annex XVII (49)	Serves as a stable source of active oxygen in many detergents, laundry detergents, cleaning products, and laundry bleaches. It is a less aggressive bleach than sodium hypochlorite and other chlorine-based bleaches, causing less degradation to dyes and textiles.	Toxic for reproduction	2021-May
5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2]					2021-May
covering any of the individual stereoisomers of [1] and [2] or any combination thereof					2021-May
Reaction mass of 5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane and 5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane EC No.: 413-720-9   CAS No.: 117933-89-8					2021-May
2-(2,4-Dimethylcyclohex-3-ene-1-yl)-5-methyl-(1-methylpropyl)-1,3-dioxane EC No.: 601-499-3   CAS No.: 117933-89-8					2021-May
Reaction mass of 5-[[[2R]-butan-2-yl]-2-[[1R,2S]-2,4-dimethylcyclohex-3-en-1-yl]-5-methyl-1,3-dioxane and 5-[[[2R]-butan-2-yl]-2-[[1S,2R]-2,4-dimethylcyclohex-3-en-1-yl]-5-methyl-1,3-dioxane EC No.: -   CAS No.: -					2021-May
1,3-Dioxane, 2-[(1R,2R)-2,4-dimethyl-3-cyclohexen-1-yl]-5-methyl-5-(1-methylpropyl)-, cis-rel- EC No.: -   CAS No.: 343934-04-3					2021-May
1,3-Dioxane, 2-[(1R,2R)-2,4-dimethyl-3-cyclohexen-1-yl]-5-methyl-5-(1-methylpropyl)-, trans- EC No.: -   CAS No.: 676367-09-2					2021-May
1,3-Dioxane, 2-[(1R,2R)-2,4-dimethyl-3-cyclohexen-1-yl]-5-methyl-5-(1-methylpropyl)-, trans-rel- EC No.: -   CAS No.: 343934-05-4					2021-May
1,3-Dioxane, 2-[(1R,2S)-2,4-dimethyl-3-cyclohexen-1-yl]-5-methyl-5-(1-methylpropyl)-, cis- EC No.: -   CAS No.: 676367-04-7					2021-May
1,3-Dioxane, 2-[(1R,2S)-2,4-dimethyl-3-cyclohexen-1-yl]-5-methyl-5-(1-methylpropyl)-, trans- EC No.: -   CAS No.: 676367-08-1					2021-May
1,3-Dioxane, 2-[(1S,2R)-2,4-dimethyl-3-cyclohexen-1-yl]-5-methyl-5-(1-methylpropyl)-, cis- EC No.: -   CAS No.: 676367-03-6					2021-May
1,3-Dioxane, 2-[(1S,2R)-2,4-dimethyl-3-cyclohexen-1-yl]-5-methyl-5-(1-methylpropyl)-, trans- EC No.: -   CAS No.: 676367-07-0					2021-May
1,3-Dioxane, 2-[(1S,2S)-2,4-dimethyl-3-cyclohexen-1-yl]-5-methyl-5-(1-methylpropyl)-, cis- EC No.: -   CAS No.: 676367-02-5					2021-May
1,3-Dioxane, 2-[(1S,2S)-2,4-dimethyl-3-cyclohexen-1-yl]-5-methyl-5-(1-methylpropyl)-, trans- EC No.: -   CAS No.: 676367-06-9					2021-May
1,3-Dioxane, 2-[(1R,2R)-2,4-dimethyl-3-cyclohexen-1-yl]-5-methyl-5-(1-methylpropyl)-, cis- EC No.: -   CAS No.: 676367-05-8					2021-May
1,3-Dioxane, 2-(2,4-dimethyl-3-cyclohexen-1-yl)-5-methyl-5-(1-methylpropyl)- EC No.: -   CAS No.: 186309-28-4					2021-May
5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane EC No.: -   CAS No.: -					2021-May
5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane EC No.: -   CAS No.: -					2021-May
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	Graco REGULATION (EC) No1907/2006 : Candidate List REGULATION (EC) No1907/2006 : Annex XVII (51)	Ultraviolet (UV) stabilizer, used in as a light stabilizer for coating and as an additive for industrial polymers	(very) Persistent, (very) Bioaccumulative and/or Toxic chemicals (PBT and vPvB)	2021-May

Substance	CAS number	Legislation	Examples of Use	Reason for Control	Added/ Revised
2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	Graco REGULATION (EC) No1907/2006 : Candidate List REGULATION (EC) No1907/2006 : Annex XVII (52)	UV absorber	(very) Persistent, (very) Bioaccumulative and/or Toxic chemicals (vPvB)	2021-May
2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3	Graco REGULATION (EC) No1907/2006 : Candidate List REGULATION (EC) No1907/2006 : Annex XVII (53)	UV absorber	(very) Persistent, (very) Bioaccumulative and/or Toxic chemicals (vPvB)	2021-May
2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	Graco REGULATION (EC) No1907/2006 : Candidate List REGULATION (EC) No1907/2006 : Annex XVII (54)	UV absorber	(very) Persistent, (very) Bioaccumulative and/or Toxic chemicals (PBT and vPvB)	2021-May