Substances on the SVHC Registry of Intentions				
Substance Name	EC Number	CAS Number	Notification of intent	Scope

Table of exemptions - Phase-out of chromium (VI) and lead (VGMS 0001-27-432), version 2, 2016-04-20		Fields that have been changed since the last version are shaded red in the list.			
ELV (EU Directive 2000/53/EC, Annex II) 2016-05-19		ELV (EU Directive 2000/53/EC, Annex II) 2016-05-19		VOLVO directive	VOLVO directive
Materials and components		Scope and expiry date of the exemption	To be labelled or made identifiable in accordance with Article 4(2)(b)(iv)	Scope and expiry date of the exemption Lead before 2020-01-01 Hexavalent chromium before 2017-06-01	Scope and expiry date of the exemption Lead after 2020-01-01 Hexavalent chromium after 2017-06-01
	Lead as an alloying element				
1(a)	Steel for machining purposes and batch hot dip galvanised steel components containing up to 0,35 % lead by weight			No expiry dates	No expiry dates
1(b)	Continuously galvanised steel sheet containing up to 0,35 % lead by weight	Vehicle type approved before 1 January, 2016 and spare parts for these vehicles.		Parts designed before 1 January, 2016	Volvo Group products type approved before 1 January, 2020 and spare parts for these products
2(a)	Aluminium for machining purposes with a lead content up to 2 % by weight.	As spare parts for vehicles put on the market before 1 July, 2005		Parts designed before 1 January, 2012	Spare parts for Volvo Group products put on the market before 1 January, 2020
2(b)	Aluminium with a lead content up to 1,5 % by weight	As spare parts for vehicles put on the market before 1 July, 2008		Parts designed before 1 January, 2012	Spare parts for Volvo Group products put on the market before 1 January, 2020
~~2(c)~~	~~Aluminium with a lead content up to 0,4 % by weight~~	~~This exemption shall be reviewed in 2015~~			
2(c) (i) - NEW	Aluminium with a lead content up to 0,4 % by weight, for machining purposes	This exemption shall be reviewed in 2021			
2(c) (ii) - NEW	Aluminium with a lead content up to 0,4 % by weight, other	This exemption shall be reviewed in 2024			
3	Copper alloy containing up to 4 % lead by weight	This exemption shall be reviewed in ~~2015~~ 2021		This exemption shall be reviewed in 2015 (ELV)	
4(a)	Bearing shells and bushes	As spare parts for vehicles put on the market before 1 July, 2008		Parts designed before 1 January, 2012	Spare parts for Volvo Group products put on the market before 1 January, 2020
4(b)	Bearing shells and bushes in engines, transmissions and air conditioning compressors	1 July, 2011 and spare parts for vehicles put on the market before 1 July, 2011		Parts designed before 1 January, 2012	Volvo Group products type approved before 1 January, 2020 and spare parts for these products
	Lead and lead compounds in components				
~~5~~	~~Batteries~~	~~This exemption shall be reviewed in 2015~~	~~x~~		
5a - NEW	Batteries in high voltage battery systems : Expiry date:	2019-01-01 Only exemptions for Vehicles type-approved before 1 January 2019 and spare parts for these vehicles			
5b - NEW	Batteries, others	This exemption shall be reviewed in 2021			
6	Vibration dampers	Vehicle type approved before 1 January, 2016 and spare parts for these vehicles.	x	Parts designed before 1 January, 2016	Volvo Group products type approved before 1 January, 2020 and spare parts for these products
7(a)	Vulcanising agents and stabilisers for elastomers in brake hoses, fuel hoses, air ventilation hoses, elastomer/metal parts in chassis applications, and engine mountings.	As spare parts for vehicles put on the market before 1 July 2005		Parts designed before 1 January, 2012	Spare parts for Volvo Group products put on the market before 1 January, 2020
7(b)	Vulcanising agents and stabilisers for elastomers in brake hoses, fuel hoses, air ventilation hoses, elastomer/metal parts in chassis applications, and engine mountings containing up to 0,5 % lead by weigth.	As spare parts for vehicles put on the market before 1 July, 2006		Parts designed before 1 January, 2012	Spare parts for Volvo Group products put on the market before 1 January, 2020
7(c)	Bonding agents for elastomers in powertrain application containing up to 0,5 % lead by weight.	As spare parts for vehicles put on the market before 1 July, 2009		Parts designed before 1 January, 2012	Spare parts for Volvo Group products put on the market before 1 January, 2020
8(a)	Lead in solders to attach electrical and electronic components to electronic circuit boards and lead in finishes on terminations of components other than electrolyte aluminium capacitors, on component pins and on electronic circuit boards.	Vehicle type approved before 1 January, 2016 and spare parts for these vehicles.	x(3)	Parts designed before 1 January, 2016	Volvo Group products type approved before 1 January, 2020 and spare parts for these products
8(b)	Lead in solders in electrical applications other than soldering on electronic circuit boards or on glass.	Vehicle type approved before 1 January, 2011 and spare parts for these vehicles.	x(3)	Parts designed before 1 January, 2012	Volvo Group products type approved before 1 January, 2020 and spare parts for these products
8(c)	Lead in finishes on terminals of electrolyte aluminium capacitors.	Vehicle type approved before 1 January, 2013 and spare parts for these vehicles.	x(3)	Parts designed before 1 January, 2013	Volvo Group products type approved before 1 January, 2020 and spare parts for these products
8(d)	Lead used in soldering on glass in mass airflow sensors.	Vehicle type approved before 1 January, 2015 and spare parts for these vehicles.	x(3)	Parts designed before 1 January, 2015	Volvo Group products type approved before 1 January, 2020 and spare parts for these products
8(e)	Lead in high melting temperature type solders (i.e. lead-based alloys containing 85 % by weight or more lead)	This exemption shall be reviewed in 2019	x(3)	This exemption shall be reviewed in 2019 (ELV)	
8(f)(a)	Lead in compliant pin connector systems	Vehicles type-approved before 1 January 2017 and spare parts for these vehicles	x(3)	Parts designed before 1 January, 2017	Volvo Group products type approved before 1 January, 2020 and spare parts for these products
8(f)(b)	Lead in compliant pin connector systems other than the mating area of vehicle harness connectors	This exemption shall be reviewed in 2019	x(3)	This exemption shall be reviewed in 2019	
8(g)	Lead in solders to complete a viable electrical connection between semiconductor die and carrier within integrated circuit flip chip packages	This exemption shall be reviewed in 2019	x(3)	This exemption shall be reviewed in 2019 (ELV)	
8(h)	Lead in solder to attach heat spreaders to the heat sink in power semiconductor assemblies with a chip size of at least 1 cm2 of projection area and a nominal current density of at least 1 A/mm2 of silicon chip area	Vehicles type-approved before 1 January 2016 and spare parts for these vehicles	x(3)	Parts designed before 1 January, 2016	Volvo Group products type approved before 1 January, 2020 and spare parts for these products
8(i)	Lead in solders in electrical glazing applications on glass except for soldering in laminated glazing	Vehicles type approved before 1 January, 2016 and after that date as spare parts for these vehicles	x(3)	Parts designed before 1 January, 2016	Volvo Group products type approved before 1 January, 2020 and spare parts for these products
8(j)	Lead in solders for soldering in laminated glazing	Vehicles type-approved before 1 January 2020 and spare parts for these vehicles	x(3)	Parts designed before 1 January, 2020	Volvo Group products type approved before 1 January, 2020 and spare parts for these products
9	Valve seats	As spare parts for engine types developed before 1 July, 2003		Parts designed before 1 January, 2012	Spare parts for Volvo Group products put on the market before 1 January, 2020
10(a)	Electrical and electronic components which contain lead in a glass or ceramic, in a glass or ceramic matrix compound, in a glass-ceramic material, or in a glass-ceramic matrix compound. This exemption does not cover the use of lead in: - glass in bulbs and glaze of spark plugs, - dielectric ceramic materials of components listed under 10(b), 10(c) and 10(d)		X (4) (for components other than piezo in engines)	no expiry dates	no expiry dates
10(b)	Lead in PZT-based dielectric ceramic materials of capacitors being part of integrated circuits or discrete semiconductors			no expiry dates	no expiry dates
10(c)	Lead in dielectric ceramic materials of capacitors with a rated voltage of less than 125 V AC or 250 V DC	Vehicle type approved before 1 January, 2016 and spare parts for these vehicles.		Parts designed before 1 January, 2016	Volvo Group products type approved before 1 January, 2020 and spare parts for these products
10(d)	Lead in the dielectric ceramic materials of capacitors compensating the temperature-related deviations of sensors in ultrasonic sonar systems	Vehicles type-approved before 1 January 2017 and spare parts for these vehicles		Parts designed before 1 January, 2017	Volvo Group products type approved before 1 January, 2020 and spare parts for these products
11	Pyrotechnic initiators	Vehicle type approved before 1 July, 2006 and spare parts for these vehicles.		Parts designed before 1 January, 2012	Volvo Group products type approved before 1 January, 2020 and spare parts for these products
12	Lead-containing thermoelectric materials in powertrain electrical applications to reduce CO2 emissions by recuperation of exhaust heat.	Vehicle type approved before 1 January, 2019 and spare parts for these vehicles.	x	Parts designed before 1 January, 2019	Volvo Group products type approved before 1 January, 2020 and spare parts for these products
	Hexavalent chromium				
13(a)	Corrosion-preventive coatings	As spare parts for vehicles put on the market before 1 July, 2007		Parts designed before 1 January, 2012	Spare parts for Volvo Group products put on the market before 1 June 2017
13(b)	Corrosion-preventive coatings related to bolt and nut assemblies for chassis applications	As spare parts for vehicles put on the market before 1 July, 2008		Parts designed before 1 January, 2012	Spare parts for Volvo Group products put on the market before 1 June 2017
14	As an anti-corrosion agent of the carbon steel cooling system in absorption refrigerators in motorcaravans up to 0,75 % of weight in the cooling solution, except where the use of other cooling technologies is practicable (i.e. available on the market for the application in motor caravans) and does not lead to negative environmental, health and/or consumer safety impacts		x	no expiry dates	no expiry dates

(3) Dismantling if, in correlation with entry 10(a), an average threshold of 60 grams per vehicle is exceeded. For the application of this clause electronic devices not installed by the manufacturer on the production line shall not be taken into account.

(4) Dismantling if, in correlation with entries 8(a) to 8(j), an average threshold of 60 grams per vehicle is exceeded. For the application of this clause, electronic devices not installed by the manufacturer on the production line shall not be taken into account.

Notes:
A maximum concentration value up to 0,1 % by weight and in homogeneous material, for lead, hexavalent chromium and mercury and up to 0,01 % by weight in homogeneous material for cadmium shall be tolerated.

The re-use of parts of vehicles which were already on the market at the date of expiry of an exemption shall be allowed without limitation since it is not covered by Article 4(2)(a).

KAB // Seating	Black Restricted Substances List				KD 964-01	VERSION 15	June 2018
100-0002 Issue 12 Substance group / Substance	CAS No.	Examples of occurence	Application	Threshold (Unless otherwise specified 0,1%)	Risk	First added	Last revised
Acrylamide	79-06-1	Synthesis raw material. Occurs in binders, flocculants and sealants as well as residues in plastic packaging, pulp and paper products			M, C	15/03/2014	
Amines, carcinogenic	Various	Curing agents in paints and adhesives, antioxidants in lubricants			C, E, T	before 2006-02-01	
Arsenic and its compounds, all members	Various	Paint, biocide (including wood treatment), leather and textile finish, glass, pyrotechnic objects, metal finish, electronics			C, E, N	2014-03-15 Greylisted before 2006-02-01	
4-Aminobiphenyl and its salts	Various	Impurities in textile and leather paints, antioxidants in lubricants, rubber/latex, plastics			C, T	before 2006-02-01	
Asbestos fibres	Various	Insulation			C	before 2006-02-01	
Asbestos minerals	Various	Insulation			C	15/03/2010	
Azocolorants	Various	Colorants or additives in textiles and leather			A, C, E	before 2006-02-01	
Benzene	71-43-2	Solvent, fuel	Exception may be granted for benzene in engine fuel		C, R, T	before 2006-02-01	
Benzidine and its salts	Various	Antioxidants in lubricants, component in dyes			C	before 2006-02-01	
Biocides	Various	Biocides in paints, lubricants, cutting fluids and metal-working fluids		0.0015%	A, E, T	15/03/2013	
Cadmium and its compounds	Various	Pigments in paints and plastics, electronics		0.01%	C, E	before 2006-02-01	
Chlorinated hydrocarbons	Various	Solvents, degreasing agents and dispersive applications and paint removers			C, E, T	2014-03-15 Greylisted before 2006-02-01	
Chlorinated or brominated dioxins or furans	Various	Impurities in products			C, E, T	15/03/2010	
Chlorinated paraffins	Various	Additives in process oils, metal working fluids, adhesives and sealants			E	before 2006-02-01	
Chloroaniline	106-47-8	Hardeners or cross linking agents for polymers and epoxy resins			A, C, E	before 2006-02-01	
Chlorofluorocarbons (CFC) and other ozone-depleting substances	Various	Coolants, cleaners, solvents			E	before 2006-02-01	
Chromium(VI) and its compounds	Various	Chromium pigments, corrosion inhibitors	Chromium(VI) surface treated products introduced before 2012-01-01, and unmodified after this date, are exempted if the mean value of free hexavalent chromium does not exceed 0,3 µg/cm² when tested in accordance with STD 5713,102		A, C, E	before 2006-02-01	
Coal tar	Various	Distillation products, fillers			C	2014-03-15 Greylisted before 2006-02-01	
Cobalt Dichloride	7646-79-9	Drying agents			A, C, E, T	15/03/2011	
Creosote	8001-58-9	Distillation products, fillers			C, E	2014-03-14 Greylisted before 2006-02-01	
Diorganotin compounds	Various	Stabilizers, catalysts, curing agents and antifouling biocides	For use as antifouling biocides Volvo's blacklist applies (STD 100-0002). For other use Volvo's grey list applies (STD 100-0003)		E, R, T	15/03/2013	15/03/2015
Diphenylamine	122-39-4	Lubricants			E, T	2015-03-15 Greylisted before 2006-02-01	
Ethyl-, methyl-glycols and their acetates	Various	Solvents and blowing agents			R	Before 2006-02-01	
Halons	Various	Fire extinguishing equipment			E	Before 2006-02-01	
Hexabromocyclododecane (HBCDD)	Various	Flame retardants			E	Before 2006-02-01	
Hydrazine	302-01-2	Foaming agent and precursor to polymerization. Corrosion inhibitor in paints.			C	15/03/2012	
Hydrobromofluorocarbons (HBFC)	Various	Refrigerants			E	15/03/2010	
Hydrochlorofluorocarbons (HCFC)	Various	Solvents and blowing agents	All applications except cooling agents in industrial applications		E	before 2006-02-01	
Hydrofluoric acid	7664-39-3	Surface treatment, pickling, etching	For use as surface treatment Volvo's grey list applies (STD 100-0003) For other use Volvo's black list applies (STD 100-0002)		T	2014-03-15 Greylisted before 2006-02-01	
Lead metallic	7439-92-1	Alloys, solder	Applies to products/parts handled in production processes where there is a risk of undesired occupational exposure	0,03% for metallic lead in powder form (particle size < 1 mm) 0,3% for metallic lead in massive form (particle size > 1 mm)	E, N, R	before 2006-02-01	15/03/2017
Lead compounds	Various	Lead-containing stabilizers and pigments, corrosion inhibitors	The prohibition refers to the use of lead chromates in all applications. For other lead compounds, the prohibition is effective for new design from 2012-01-01		E, N, R	before 2006-02-01	
Mercury and its compounds	Various	Pigments, preservatives, constituents in electric equipment			E, N	before 2006-02-01	
2-methoxy-1-propanol	1589-47-5	Solvents			R	2015-03-15 Greylisted before 2006-02-01	
Mineral oils with PAH	Various	Constituent in base oils, lubricants	Not applicable when threshold criteria are fulfilled	Considered to contain PAH if standard test (Institute of Petroleum, IP 346 method) produces the result "DMSO extract ≥ 3 %". Applicable to base oils used in lubricants and other chemical products	C	before 2006-02-01	
4-Nitrobiphenyl	92-93-3	Impurities in textile and leather paints, antioxidants in lubricants, rubber/latex, plastics			C	15/03/2010	
N,N´-ethylene bis(3,4,5,6-tetrabromophthalimide) (EBTPI)	32588-76-4	Flame retardants			E	2015-03-15 Greylisted before 2006-02-01	
Nonyl- and octylphenols	Various	Surface-active agents			E, ED	before 2006-02-01	15/03/2017
Nonyl- and octylphenol ethoxylates	Various	Surfactants, corrosion inhibitors			E, ED	before 2006-02-01	15/03/2017
Perfluorooctanoic acids (PFOAs)	Various	Impregnating agents, floor wax, paint, sealing strips			E, C, R	15/03/2010	15/03/2015
Perfluorooctane sulfonates (PFOSs)	Various	Surface coatings, polish, firefigthing foam			E	15/03/2010	15/03/2015
Phenolftalein	77-09-8	pH-indicator			C, R	15/03/2013	
Phthalates, selected	Various	Plasticizers in adhesives and sealants			E, ED, R	before 2006-02-01	
Polybrominated biphenyls (PBB)	Various	Flame retardants in plastics and textiles			E	before 2006-02-01	
Polybrominated diphenyl ethers (PBDE)	Various	Flame retardants in plastics and textiles			E	before 2006-02-01	
Polychlorinated biphenyls (PCB)	Various	Insulation fluids in electrical systems, constituent in transformer oils and condensers			E	before 2006-02-01	
Polychlorinated terphenyls (PCT)	Various	Insulation fluids in electrical systems, constituent in transformer oils and condensers			E	15/03/2010	
Polycyclic aromatic hydrocarbons (PAH, PCAH)	Various	Extender oil in tyres			C, E	2015-03-15 Greylisted before 2006-02-01	
Quaternary ammonium compounds	Various	Cleaning agents, surface-active agents			E	before 2006-02-01	15/03/2015
Refractory Ceramic Fibres	N.A.	Insulation materials	The prohibition refers to RCF fibres extracted from index number 650-017-00-8 fulfilling the criteria set forth in the REACH Candidate List. High temperature insulation applications are excempted from this prohibition.		C	15/03/2011	
TBBPA carbonat oligomer (polymer of tetrabromobisphenol A, phosgene, phenol)	94334-64-2	Flame retardants			E	2015-03-15 Greylisted before 2006-02-01	
Tetrabromobisphenol A (TBBPA)	79-94-7	Flame retardants in polymers, textiles			E	2015-03-15 Greylisted before 2006-02-01	
Thiram (TMTD)	137-26-8	Adhesives, sealants, biocides			A, E	2014-03-15 Greylisted before 2006-02-01	
Toluenediisocyanates (TDI)	Various	PUR-foam, hardeners			A, C	2015-03-13 Greylisted before 2006-02-01	
Triglycidyl isocyanurate (TGIC)	2451-62-9	Hardeners			A, T	2014-03-15 Greylisted before 2006-02-01	
Triorganotin compounds	Various	Biocides and biocidal coatings			E, T, R	15/03/2011	
Tris-(1-aziridinyl) phosphine oxide	545-55-1	Flame retardants			T	15/03/2010	
Tris-(2,3-dibromo-propyl) phosphate [TRIS]	126-72-7	Flame retardants			C, E	15/03/2010	
Vinyl chloride	75-01-4	Residual monomer in PVC-based adhesives and sealants		Threshold 5ppm vinyl chloride monomer	C	15/03/2010	
Dicyclohexyl phtalate (DCHP)	84-61-7				ED, R	2018-03-15 Greylisted 2016-03-15	

From Scania Black list - Issue 22 11/8/17						
Azocolorants	Several	Dyes for textile and leather	According to EU directive 2002/61/EC: Are applicable for a that can separate into carcinogenic aromatic amines.	0	C,E,A	17/10/2007

From Komatsu Banned list - Dec 2012						
Tri-substituted Organostannic Compounds				0		
Triethanolamine				0		
Hexachlorobenzene				0		

From RoHS list 2011/65/EU Directive						
Cadmium				0.01		

From Karcher list - Sept 2014						
Monomethyl dibromodiphenyl methane				No content permitted		
Monomethyl dichlorodiphenyl methane				No content permitted		
Monomethyl tetrachlorodiphenyl methane				No content permitted		
Dimethyl Fumarate				No intentionally added content		
Pentachlorophenol				0.1% w/w in any substance or preparation		
Sulphur Hexafluoride				No intentionally added content		
Polychlorinated and polybrominated dioxins and furans				No intentionally added content		
Radioactive substances				No intentionally added content		
Di-isodecyl phthalate (DIDP)				Declare if > 0.1% w/w		
Di-n-hexyl phthalate (DNHP)				Declare if > 0.1% w/w		
Polychloronaphthalenes				No intentionally added content		
Diisononyl phthalate (DINP)				Declare if > 0.1% w/w		
Beryllium and Beryllium compounds				0.10%		
PVC and PVC copolymers				Declare if > 0.1% w/w total chlorine content from PVC		
Antimony trioxide in plastic materials				Declare if > 0.1% w/w in plastic parts		

From Atlas Copco checklist 2017 - conflict minerals
Conflict minerals are columbite-tantalite (coltan), cassiterite, gold, wolframite or their derivatives (tin, tungsten and tantalum) according to the Securities and Exchange Commission definition and source from the Democratic Republic of Congo or the nine countries surrounding it.

GADSL REFERENCE LIST 2018	
Version	1
First release:	01/02/2005
Revised	01/02/2018

GADSL #	Substance	CAS No,	Classification	Reason Code	Source (Legal requirements, regulations)	Effective date (Legal requirements, regulations) Date	Action required	Generic examples	Reporting threshold (0.1% unless otherwise stated)	First added	Last revised
1	**Acetaldehyde**	75-07-0	D	FI	Reg. (EC) No 1272/2008			Emitted substance from polymer components		10-Jan-2005	
2	**Acetamide, N-methyl-**	79-16-3	D	LR	Reg. (EC) No 1272/2008, Classified as toxic to reproduction class 2 Reg. (EC) No 1907/2006 (REACH Candidate List)			Present in capacitors, used in automobile parts		1-Feb-2010	1-Feb-2015
3	**Acetonitrile**	75-05-8	D	FI	Reg. (EC) No 1272/2008			component in high-capacity capacitors		1-Feb-2008	
4	**Acrylamide**	79-06-1	D	LR	Reg. (EC) No 1272/2008 Reg. (EC) No 1907/2006 (REACH Candidate List)			Production of polyacrylamide (residual monomer)		10-Jan-2005	1-Feb-2015
5	**Acrylonitrile**	107-13-1	D	FI	Reg. (EC) No 1272/2008			Production of plastics, resins and rubbers eg. ABS (residual monomer)		10-Jan-2005	
6	**Amines, coco alkyl**	61788-46-3	D	FI	Included in list of substances under assessment in phase 3 of Canadian Chemical Management Plan (CMP3) (2016-2020)					1-Feb-2017	
7	**Amines, which can form carcinogenic Nitrosamines, selected**		D	FI	Legally regulated according to German TRGS 615. Limit for all secondary Amines in volatile corrosion inhibitors, which can form carcinogenic Nitrosamines. Volatile corrosion inhibitors include papers, plastic films and oils.			polyurethane foams, corrosion inhibitors, lubricants, rubber, colourants, herbicides		1-Feb-2006	
8	**4-Aminobiphenyl and its salts, all members**		P	LR	(EC) No 1272/2008, carcinogen class 2 Reg. (EC) No 552/2009 Reg. (EC) No 1907/2006 (REACH)			Impurities in textile and leather paints, antioxidants in lubricants, rubber/latex, plastics	0.01%	10-Jan-2005	29-Jan-2008
9	**Ammonium perchlorate**	7790-98-9	D	FA	Reg. (EC) No 1272/2008 Dir. 2007/23/EC. California Assembly Bill No. 826 - Perchlorate Contamination Prevention Act; implemented July 1, 2006. http://www.dtsc.ca.gov/HazardousWaste/Perchlorate			Pyrotechnical compound		10-Jan-2005	1-Feb-2014
10	**Aniline and its salts, all members**		D	FI	Reg. (EC) No 1272/2008			Pigments, sulfonamides, isocyanate - plastics		10-Jan-2005	1-Feb-2010
11	**9,10-Anthracenedione, 1-[(5,7-dichloro-1,9-dihydro-2-methyl-9-oxopyrazolo[5,1-b]quinazolin-3-yl)azo]- (Pigment Red 251)**	74336-60-0	D	FI	Reg. (EC) No 1272/2008			Azo dye	0.1%, Report any intentionally added content. No testing required.	1-Feb-2009	17-Mar-2009
12	**Antimonytrioxide (Diantimonytrioxide)**	1309-64-4	D	FI	Reg. (EC) No 1272/2008			Flame retardant synergist for plastics and rubber/latex, opacifier, friction material component		10-Jan-2005	

13	Aromatic amines, selected		D	FI/LR	Reg. (EC) No 1272/2008 Reg. (EC) No 1907/2006 (REACH)			Impurities in textile and leather paints, antioxidants in lubricants, rubber/latex, plastics			1-Feb-2015
14	Arsenic and its compounds, all members		D/P	FA/LR	Reg. (EC) No 1272/2008 Reg. (EC) No 552/2009 Reg. (EC) No 1907/2006 (REACH)	selected, see list below	REACH Authorisation Sunset Date	Paints, smelted materials, biocides (including wood treatment), leather and textile finishes, glasses, pyrotechnic objects, metal finishes, electronics	0.01% (unless present in metals & alloys, then the declaration limit is 0.05%).	10-Jan-2005	1-Feb-2016
15	Asbestos fibers, all members		P	LR	Reg. (EC) No 552/2009 Definition of asbestos fiber for counting purpose by OSHA in 1992 ; Particle with a length >5 µm, a diameter of <3µm and aspect ratio(length : width)>3 : 1			Friction pads, gaskets, insulations	Any intentionally added content	10-Jan-2005	1-Feb-2011
16	Asbestos minerals, all members		D/P	FI/LR	Potential to form Asbetos fibers (see entry Asbestos fibers)			Friction pads, gaskets, insulations	Any intentionally added content	1-Feb-2007	1-Feb-2015
17	Azodyes that can form carcinogenic amines, selected		D/P	LR	Reg. (EC) No 552/2009, Reg. (EC) No 1907/2006 (REACH), TRGS 614 A list of affected azo dyes has been prepared by an industrial association (TEGEWA), see List A in http://www.tegewa.de/uploads/media/2001_Azofarbstoffe_gemaess_TRGS_614.pdf			In dyes for textiles and leather articles		1-Feb-2015	1-Feb-2016
18	Barium compounds (organic or water soluble), selected		D	FI/FA	Reg. (EC) No 1272/2008			Colour pigments, stabilizers for PVC, lubricant additives	1%	10-Jan-2005	1-Feb-2014
19	Benzene	71-43-2	P	LR	Reg. (EC) No 552/2009			Raw material/contaminant in other chemicals	0.1% for physical solid state parts	10-Jan-2005	1-Feb-2014
20	Benzene, 1-(1,1-dimethylethyl)-3,5-dimethyl-2,4,6-trinitro- (Musk xylene)	81-15-2	D	FI	Included in list of substances under assessment in phase 3 of Canadian Chemical Management Plan (CMP3) (2016-2020)					1-Feb-2017	
21	Benzenemethanaminium, N-ethyl-N-[4-[[4-[ethyl[(3-sulfophenyl)methyl]amino]phenyl](2-sulfophenyl)methylene]-2,5-cyclohexadien-1-ylidene]-3-sulfo-, hydroxide, inner salt, disodium salt	3844-45-9	D	FI	Included in list of substances under assessment in phase 3 of Canadian Chemical Management Plan (CMP3) (2016-2020)					1-Feb-2017	
22	Benzenamine, N-phenyl-, reaction products with styrene and 2,4,4-trimethylpentene (BNST)	68921-45-9	D/P	FI/LR	Substance is regulated under the Canadian Prohibition of Certain Toxic Substances. BNST is banned from any use except when used in rubber parts excluding tires. There is also a temporary exclusion for the use of BNST in lubricants which expires in March 2015.				0.1%, Report any intentionally added content. No testing required.	1-Feb-2009	1-Feb-2015
23	1,4-Benzenediamine, N,N' -mixed phenyl and tolyl derivs	68953-84-4	D	FI	Canada Gazette Vol. 140, No. 49 - December 9, 2006 (Canadian Challenge). The Canadian Challenge is regulated under the Part 5, Section 71, of the Canadian Environmental Protection Act, 1999 (CEPA, 1999).			Rubber tires; elastomers in butyl rubber; anti aging agent; sealants	0.1%, Report any intentionally added content. No testing required.	1-Feb-2009	1-Apr-2014
24	1,2-benzenedicarboxylic acid, di-C11-14-branched alkyl esters, C13-rich	68515-47-9	D	FI	Included in list of substances under REACH PACT assessment			Adhesive, sealant, PVC, thermoplastics, laquers, solder, electrolytic fluid		1-Feb-2017	
25	1,4 Benzenediol (Hydroquinone)	123-31-9	D	LR	Canada SNAC http://www.gazette.gc.ca/rp-pr/p2/2011/2011-12-21/html/sor-dors293-eng.html			adhesives, heat shrink tubing, paint, motor vehicle oils and fuels. New uses require prior consent!		1-Feb-2014	
26	Benzenepropanoic acid, 3-(1,1-dimethylethyl)-4-hydroxy-5-methyl-, 1,2-ethanediylbis(oxy-2,1-ethanediyl) ester	36443-68-2	D	FI	Included in list of substances under assessment in phase 3 of Canadian Chemical Management Plan (CMP3) (2016-2020)					1-Feb-2017	
27	Benzenesulfonic acid, C10-16-alkyl derivs.	68584-22-5	D	FI	Included in list of substances under assessment in phase 3 of Canadian Chemical Management Plan (CMP3) (2016-2020)					1-Feb-2017	
28	Benzenesulfonic acid, C10-16-alkyl derivs, compds. with 2-propanamine	68584-24-7	D	FI	Included in list of substances under assessment in phase 3 of Canadian Chemical Management Plan (CMP3) (2016-2020)					1-Feb-2017	
29	Benzenesulfonic acid,C10-13-alkyl derivs., sodium salts	68411-30-3	D	FI	Included in list of substances under assessment in phase 3 of Canadian Chemical Management Plan (CMP3) (2016-2020)					1-Feb-2017	
30	Benzenesulfonic acid,dodecyl(sulfophenoxy)-, sodium salt (1:2)	28519-02-0	D	FI	Included in list of substances under assessment in phase 3 of Canadian Chemical Management Plan (CMP3) (2016-2020)					1-Feb-2017	
31	Benzenesulfonic acid, oxybis[dodecyl-, disodium salt	25167-32-2	D	FI	Included in list of substances under assessment in phase 3 of Canadian Chemical Management Plan (CMP3) (2016-2020)					1-Feb-2017	
32	Benzenesulfonic acid, [[4-[[4-(phenylamino)phenyl][4-(phenylimino)-2,5-cyclohexadien-1-ylidene]methyl]phenyl]amino]- (Pigment Blue 61)	1324-76-1	D	FI	Included in list of substances under assessment in phase 3 of Canadian Chemical Management Plan (CMP3) (2016-2020)					1-Feb-2017	
33	Benzidine and its salts, all members		P	LR	Reg. (EC) No 1272/2008, carcinogen class 2 Reg. (EC) No 552/2009 Reg. (EC) No 1907/2006 (REACH) Canadain Toxic Substances Regulation 2005			Impurities in textile and leather paints, antioxidants in lubricants, rubber/latex, plastics	0.01%, see details for Canada specific	10-Jan-2005	1-Feb-2014
34	Benzododecinium chloride;	139-07-1	D	FI	Included in list of substances under assessment in phase 3 of Canadian Chemical Management Plan (CMP3) (2016-2020)					1-Feb-2017	
35	Benzoic acid, 3,5-bis(1,1-dimethylethyl)-4-hydroxy-, 2,4-bis(1,1-dimethylethyl)phenyl ester	4221-80-1	D	FI	Included in list of substances under assessment in phase 3 of Canadian Chemical Management Plan (CMP3) (2016-2020)					1-Feb-2017	
36	Benzothiazole-2-thiol; 2-Mercaptobenzothiazole;	149-30-4	D	FI	Included in list of substances under assessment in phase 3 of Canadian Chemical Management Plan (CMP3) (2016-2020)					1-Feb-2017	
37	2-Benzothiazolesulphenamide, N, N-dicyclohexyl-	4979-32-2	D	FI	Japan Chemical Substances Control Law [Monitoring]			Vulcanization accelerator for tires and rubber products	Any intentionally added content must be reported	1-Feb-2009	
38	2(3H)-Benzothiazolethione,sodium salt (1:1)	2492-26-4	D	FI	Included in list of substances under assessment in phase 3 of Canadian Chemical Management Plan (CMP3) (2016-2020)					1-Feb-2017	
39	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	D	LR	Reg. (EC) No 1907/2006 (REACH Candidate List)			UV stabilizer		1-Feb-2015	
40	2-(2H-benzotriazol-2-yl)-p-cresol (UV-P)	2440-22-4	D	FI	Included in list of substances under REACH PACT assessment			Adhesives, duromers, thermoplastics, trim, door, loudspeaker grille, cup holder		1-Feb-2017	
41	Beryllium and its compounds, all members		D	FI	Reg. (EC) No 1272/2008			Electric contacts, relays and switches; electronics		10-Jan-2005	1-Feb-2015
42	Biocidal coatings / biocidal additives, selected		D/P	LR	Reg. (EU) No 528/2012 This list is derived from the following product-types believed to be relevant to the GADSL criteria: product-type 7: Film preservatives; product-type 8: Wood preservatives and product-type 9: Fibre, leather, rubber and polymerised materials preservatives. These requirements apply only to intended use as a biocide.	1-Mar-2017	Active substances marked "D" are either approved or under review by EU authorities for the mentioned Product Types (PT). All other biocidal active substances are prohibited to be used for the respective PTs.	Biocidal and biostatic treatments of polymers, textiles, and other components susceptible to microbiological attack (e.g. mobile air conditioning systems)	Any intentionally added content	8-Aug-2014	1-Feb-2017
43	Bis(chloromethyl) ether (BCME)	542-88-1	P	LR	Prohibition of Certain Toxic Substances Regulations, 2005 (SOR/SOR/2005-41. Published in Canada Gazette Part II, 2006-11-29 Vol. 140, No. 24			Surface treatment of vulcanized rubber to increase adhesion, and in the manufacture of flame-retardant fabrics (ATSDR 1989).	Any intentionally added content	1-Feb-2008	
44	Boric acid/Orthoboric acid	11113-50-1 10043-35-3	D/P	LR	Reg. (EC) No 1907/2006 (REACH Candidate List) Reg. (EU) No 528/2012			Panels, Absorbers		1-Nov-2011	15-Sep-2014
45	Butadiene, 1,3 -	106-99-0	D	FI	Reg. (EC) No 1272/2008			Manufacturing of synthetic rubber for tyres, as homopolymerisate (BR), as copolymerisate with Styrene (SBR) or Acrylonitrile (NR), starting product of Sulfolane, Chloroprene, Hexadiamine, softeners, Tetrahydrophthalic acid anhydride, residual monomer in ABS		10-Jan-2005	
46	Cadmium and its compounds, all members		D/P	LR	Dir. 2000/53/EC Reg. (EC) No 1272/2008 Reg. (EC) No 552/2009 Reg. (EC) No 1907/2006 (REACH) GB/T 30512 (ELV China)			Surface protection of metals, stabilizers in polymers, pigments, in paints and plastics, electronics	0.01% for impurities, any intentionally added content must be reported	10-Jan-2005	1-Feb-2017
47	Chlorinated hydrocarbons, selected		D/P	FI/LR	Multiple (see below). Several chlorinated hydrocarbons listed are not explicitly prohibited in applications associated with manufactured articles, however, within the EU there is a general regulatory presumption toward substitution for industrial uses.			Solvent and other dispersive applications. Also includes manufacturing process uses resulting in impurities associated with leather, foams, paints, rubbers, and adhesives applications.		10-Jan-2005	1-Feb-2015
48	Chlorinated or brominated Dibenzo-p-dioxins or Dibenzofurans, all members		P	LR	Reg. (EC) 850/2004			Impurities in products	Content above 10 ppb	10-Jan-2005	1-Feb-2017
49	Chlorinated paraffins, short & medium chain length (SCCP, MCCP), all members: Note that the use of specific CAS numbers for these substances differs throughout the world. Example CAS numbers are provided below; however, other CAS numbers maybe used that are not specific to chain length. Therefore, please consult your MSDS and supplier to determine product-specific chain length.		D/P	FI/LR	Reg. (EC) 850/2004			Flame retarding substances	1%	10-Jan-2005	1-Feb-2017
50	5-Chlorobenzotriazole, 2-(2-Hydroxy-3-tert-butyl-5-methylphenyl)- (UV-326)	3896-11-5	D	FI	Included in list of substances under REACH PACT assessment			Application: air bag, battery, fuel pipe, door seal, fabric, roof hatch		1-Feb-2017	
51	Chromium(VI)-salts, all members		D/P	LR	Reg. (EC) No 1272/2008, Reg.(EU) No 301/2014 Dir. 2000/53/EC Reg. (EC) No 1907/2006 (REACH) GB/T 30512 (ELV China)	selected, see list below	REACH Authorisation Sunset Date	Chromium pigments, chromated surfaces e.g. "Chromium Yellow", corrosion inhibitors, residues from dying and leather tanning.	0.1% for impurities, any intentionally added content must be reported, 3mg/kg of chromium VI content in the total dry weight of the leather	10-Jan-2005	1-Feb-2017
52	Cobalt and its compounds, all members		D/P	FI/FA/LR	Reg. (EC) No 1272/2008 Reg. (EC) No 1907/2006 (REACH)			Hard metals, galvanic Zn-Co-plating, element in metals	Cobalt compounds and alloys, excluding cobalt in steels	10-Jan-2005	1-Feb-2016
53	Colophony(Rosin), selected		D	FI	ACGIH Worldwide - Documentation of the TLVs and BEIs with other Worldwide Occupational Exposure Values; 2003.			Solders, adhesives, sealants		10-Jan-2005	1-Feb-2015
54	Copper (metallic)	7440-50-8	D	LR	California and Washington state laws: CA SB 346 and WA SB 6557 (Regulations apply only to brake and friction material applications).	• 1-Jan-21 • 1-Jan-25	• Both California and Washington ban the sale of brake friction material containing more than 5 % copper by weight. • California will prohibit sale of brake friction materials and motor vehicles with brake friction materials exceeding 0.5 % copper by weight. • Washington state law requires its Department of Ecology to begin in 2015 to evaluate whether alternative brake friction materials are	Dispersive applications (Brake and Friction linings)	• 5 % copper by weight (January 1, 2021 in California and Washington) • 0.5 % copper by weight (January 1, 2025 in California) (Date TBD in Washington)	10-Jan-2005	1-Feb-2017
55	Cyclododecane, hexabromo- (HBCD)		D/P	LR	• (EC) No 1272/2008 Reg. (EC) No 1907/2006 (REACH Annex XIV see Sunset Date) • Japan Chemical Substances Control Law [Class I] • CEPA Toxic Expected prohibition date aligned with other signatories to the Stockholm Convention. Prohibition expected in 2014 to 2015. Report any intentional addition, no testing required	• 21-Aug-15 • 1-May-14		Flame retardant	for Canada report any intentionally added content	10-Jan-2005	1-Feb-2015

56	Diamino-diphenylmethane (4,4'-Diaminodiphenylmethane)	101-77-9	P	LR	Reg. (EC) No 1272/2008 Reg. (EC) No 1907/2006 (REACH Annex XIV)	21-Aug-14	REACH Authorisation Sunset Date	Preliminary and intermediate product of resins, adhesives, dyes, curing agent, accelarator.		10-Jan-2005	
57	Diisodecyl azelate	28472-97-1	D	FI	Included in list of substances under REACH PACT assessment			grease, lubricant		1-Feb-2017	
58	Dimethylformamide (N,N-Dimethylformamide)	68-12-2	D	LR	Reg. (EC) No 1907/2006 (REACH Candidate List) Reg. (EC) No 1272/2008 Dir 91/689/EC					10-Jan-2005	1-Feb-2015
59	Diorganotin compounds		D/P	FI/LR	(EU) No 276/2010, REACH Annex XVII			Stabilizer for polymers	0.1% by weight of Tin	10-Jan-2005	1-Feb-2015
60	Disodiumtetraborates, selected		D/P	LR	Reg. (EC) No 1272/2008 Reg. (EC) No 1907/2006 (REACH)			spring steel wire, ditch molding		1-Nov-2011	1-Feb-2015
61	2,6-di-tert-butyl-p-cresol	128-37-0	D	FI	Included in list of substances under REACH PACT assessment Included in list of substances under assessment in phase 3 of Canadian Chemical Management Plan (CMP3) (2016-2020)			adhesive, varnish, grease, lube. Oil, elastomers		1-Feb-2017	
62	6,6'-di-tert-butyl-4,4'-thiodi-m-cresol	96-69-5	D	FI	Included in list of substances under REACH PACT assessment Included in list of substances under assessment in phase 3 of Canadian Chemical Management Plan (CMP3) (2016-2020)			Elastomers / elastomeric compounds, Sealing Rubber,		1-Feb-2017	
63	2,5-di-tert-pentylhydroquinone	79-74-3	D	FI	Included in list of substances under REACH PACT assessment			adhesive, sealant,		1-Feb-2017	
64	2,2'-Dithiobis(benzothiazole)	120-78-5	D	FI	Included in list of substances under assessment in phase 3 of Canadian Chemical Management Plan (CMP3) (2016-2020)					1-Feb-2017	
65	Dodecachloropentacyclo 1, 3, 4-Metheno-1H-cyclobuta(cd)pentalene, Mirex	2385-85-5	P	LR	Prohibition of Certain Toxic Substances Regulations, 2005 (SOR/SOR/2005-41. Published in Canada Gazette Part II, 2006-11-29 Vol. 140, No. 24			Flame retardant in plastics, rubber, paint, paper, and electrical goods from 1959 to 1972. Mirex was sold as a flame retardant under the trade name Dechlorane, and chlordecone was also known as Kepone.	Intentional addition prohibited	1-Feb-2008	
66	1,6,7,8,9,14,15,16,17,17,18,18-dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]octadeca-7,15-diene (Dichlorane Plus)	13560-89-9	D	FI	Included in list of substances under REACH PACT assessment			Thermoplastics; Unfilled Thermoplastics; Electronics (e.g. pc boards, displays); Thermoplastic elastomers		1-Feb-2017	
67	Epichlorohydrin (1-chloro-2,3-epoxypropane)	106-89-8	D	FI	Reg. (EC) No 1272/2008			Residual monomers in epoxy resins		1-Feb-2006	29-Jan-2008
68	Ethanaminium, N-[4-[[4-(diethylamino)phenyl][4-(ethylamino)-1-naphthalenyl]methylene]-2,5-cyclohexadien-1-ylidene]-N-ethyl-, chloride (Basic Blue 7)	2390-60-5	D	FI	Included in list of substances under assessment in phase 3 of Canadian Chemical Management Plan (CMP3) (2016-2020)					1-Feb-2017	
69	1,1'-(ethane-1,2-diyl)bis[pentabromobenzene]	84852-53-9	D	FI	Included in list of substances under REACH PACT assessment			Thermoplastics, Adhesives, sealants, Airbag, cables, sensors,		1-Feb-2017	
70	Ethanol, 2-(2-methoxyethoxy)-	111-77-3	D	FI	Canada Gazette Vol. 140, No. 49 - December 9, 2006 (Canadian Challenge). The Canadian Challenge is regulated under the Part 5, Section 71, of the Canadian Environmental Protection Ac t, 1999 (CEPA, 1999).			reported in brake fluids	0.1%, Report any intentionally added content. No testing required.	1-Feb-2009	17-Mar-2009
71	Ethyl-/ Methyl-glycols and their acetates		D/P	FI/LR	See below				Report any known concentra	10-Jan-2005	1-Feb-2015
72	Ethylenethiourea/Imidazolidine-2-thione	96-45-7	D	LR	Reg. (EC) No1907/2006 (REACH Candidate List)			Vulcanization agent for rubber products		1-Feb-2015	1-Feb-2015
73	Fluorotelomers, selected	Some substances may not have CAS#s	D	FA	EPA created a Voluntary Stewardship Program to reduce facility emissions and product content of PFOA, its higher homologues, and related chemicals including precursors (see column B) on a global basis by 95 percent no later than year-end 2010, and to work toward eliminating emissions and product content of these materials by year-end 2015. In addition the Canadian governmental agencies are also working on a similar program which is expected to take effect later in 2007.			Present at low levels in telomeric products used as surface treatments for oil, soil, and water repellency and stain/dirt resistance for textile fabrics and carpet in the automotive sector.	0.1% by mass of treated article eg carpet, upholstry, other textiles	1-Feb-2008	1-Feb-2015
74	Formaldehyde	50-00-0	D/P	FI/LR	Reg. (EC) No 1272/2008 Reg. (EU) No 528/2012 (BPR)			Residues and degradation products of plastics (aminoplasts, urea- and melamine resins, foam plastics, vulcanization accelerators, basis for synthetic tannins, biocides, adhesives, formed woods	Any intentionally added content of formaldehyde must be reported. Formaldehyde in any material, which may be emitted under reasonable and forseeable conditions, must be qualitatively indicated. Impurities of formaldehyde above 0.1 % has to be declared.	10-Jan-2005	1-Feb-2015
75	2,5-Furandione,dihydro-3-(tetrapropenyl)-	26544-38-7	D	FI	Included in list of substances under assessment in phase 3 of Canadian Chemical Management Plan (CMP3) (2016-2020)					1-Feb-2017	
76	Hexachlorobenzene	118-74-1	D/P	FI/LR	(EC) No 1272/2008, The Canadian Prohibition of Certain Toxic Substances Regulations 2012 Regulation states at Section 4 that: ...a person must not manufacture, use, sell, offer for sale or import a toxic substance set out in schedule 1 or a product containing it unless the toxic substance is incidentally present. Japan Chemical Substance Control Law [Class I]. Must use BAT (Best Available Technology) to assure lowest concentration. Levels above BAT are prohibited see http://www.meti.go.jp/policy/chemical_management/english/cscl/publications.html			As a peptizing agent in the production of nitroso compounds and rubber for tires. As impurities in colorants	Canada: no intentional addition. Japan: ≤ BAT	1-Feb-2008	1-Feb-2016
77	Hexachloro-1,3-butadiene (HCBD)	87-68-3	P	LR	Prohibition of Certain Toxic Substances Regulations, 2005 (SOR/SOR/2005-41. Published in Canada Gazette Part II, 2006-11-29 Vol. 140, No. 24			Used mainly as an intermediate in the manufacture of rubber compounds. It is also used in the production of lubricants	Intentional addition prohibited	1-Feb-2008	
78	Hexachlorocyclohexane, gamma isomer, Lindane	58-89-9	D	FI	GefStoffV with Annex IV Nr. 5			Insecticide, substance in wood protecting compounds		10-Jan-2005	
79	Hexamethyldisiloxane	107-46-0	D	FI	Included in list of substances under REACH PACT assessment			silicon fluid, coatings, laquers, duromers, top coat		1-Feb-2017	
80	Hexanedioic acid, bis(2-ethylhexyl) ester	103-23-1	D	FI	Canada Gazette Vol. 140, No. 49 - December 9, 2006 (Canadian Challenge). The Canadian Challenge is regulated under the Part 5, Section 71, of the Canadian Environmental Protection Ac t, 1999 (CEPA, 1999).			NBR rubber seals	0.1%, Report any intentionally added content. No testing required.	1-Feb-2009	17-Mar-2009
81	2-Hexyldecan-1-ol	2425-77-6	D	FI	Included in list of substances under REACH PACT assessment			electronics, soldercream, lubricants		1-Feb-2017	
82	Hydrazine	302-01-2	D	FI	Reg. (EC) No 1272/2008			Residual monomers in plastics, pigments and adhesives, antioxidants stabilizing of Amines, Phenols, in oils, greases, natural latex; blowing agents for foamed plastics		10-Jan-2005	
83	Hydrobromofluorocarbons (HBFC's), all members		P	LR	Reg. (EC) No 1005/2009; Montreal Protocol; US EPA Class 1 ODS			Refrigerant		10-Jan-2005	1-Feb-2016
84	Hydrochlorofluorocarbons (HCFC's), all members		D/P	LR	Reg. (EC) No 1005/2009; Montreal Protocol; US EPA Class 2 ODS			Refrigerant		10-Jan-2005	1-Feb-2013
85	Hydrofluorocarbons (HFC's), all members		D/P	FA/LR	Kyoto Protocol			Vehicle related refrigerants D/FA		10-Jan-2005	1-Jan-2007
86	Indium tin oxide (ITO)	50926-11-9	D	FI	Included in list of substances under REACH PACT assessment			electrics, electronics, ceramics, glass, thermoplastics		1-Feb-2017	
87	Isodecyl diphenyl phosphate	29761-21-5	D	FI	Included in list of substances under assessment in phase 3 of Canadian Chemical Management Plan (CMP3) (2016-2020)			Elastomers / elastomeric compounds, Adhesives, sealants		1-Feb-2017	
88	4,4'-isopropylidenediphenol	80-05-7	D	LR	Included in list of substances under REACH PACT assessment Reg. (EC) No 1907/2006 (REACH Candidate List)			PVC, Laquers, hardener, adhesives, electrics		1-Feb-2017	
89	Isopropylphenyl phosphate	68937-41-7	D	FI	Included in list of substances under assessment in phase 3 of Canadian Chemical Management Plan (CMP3) (2016-2020)			Flame Retardant		1-Feb-2017	
90	Lead and its compounds, all members		D/P	LR	Dir. 2000/53/EC Reg. (EC) No 1272/2008 Reg. (EC) No 552/2009 GB/T 30512 (ELV China)	selected, see list below	REACH Authorisation Sunset Date	Lead as component in metals and alloys: e.g. bearing metals, steel, brass, aluminium processed in automated machines. Lead compounds, e.g. lead-containing stabilizers and pigments, corrosion inhibitors etc.	0.1% for impurities, any intentionally added content must be reported	10-Jan-2005	1-Feb-2017
91	Mercuryand its compounds, all members		D/P	LR	Dir. 2000/53/EC Reg. (EC) No 1272/2008 Reg. (EC) No 552/2009 GB/T 30512 (ELV China)			Metallic mercury, and inorganic and organic mercury compounds used in high intensity discharge (HID) lamps, electric switches, luminescent material for instrument lighting, pyrotechnic initiators etc.	0.1% for impurities, any intentionally added content must be reported	10-Jan-2005	1-Feb-2017
92	Methanaminium, N-[4-[[4-(dimethylamino)phenyl]phenylmethylene]-2,5-cyclohexadien-1-ylidene]-N-methyl-, chloride	569-64-2	D	FI	Included in list of substances under assessment in phase 3 of Canadian Chemical Management Plan (CMP3) (2016-2020)					1-Feb-2017	
93	Methanol	67-56-1	D	FI	Norway, Sweden (SFS 1985:840; SFS 1986:8), Denmark, Finland			Window Washer fluid applications		10-Jan-2005	
94	Mineral fibers (Natural or Synthetic), all members except: - Non-respirable fibers - Fibers with low biopersistence		D	FI/LR	Reg. (EC) No 1907/2006, (REACH Candidate List), and Dir. 2009/425/EC, Reg. (EC) No 1272/2008: CLP. - Except fibers with length weighted geometric mean diameter less two standard errors >6 micron (i.e. Continuous Filament Fibers) and with <10 days half life in short time			Friction materials, clutch facings, screens, reinforcements, insulation, cables, exhaust system components, gaskets, tires, plastics.	Fibers or fibrils that: 1. exceed biopersistence limits (i.e. don't fall under Nota Q of Reg. (EC) No 1272/2008 (CLP) and, 2. are considered respirable (i.e. not continuous filament or not falling under	10-Jan-2005	1-Feb-2015
95	Miristalkonium chloride;	139-08-2	D	FI	Included in list of substances under assessment in phase 3 of Canadian Chemical Management Plan (CMP3) (2016-2020)					1-Feb-2017	
96	Monomethyldibromodiphenylmethane	99688-47-8	P	LR	Reg. (EC) No 552/2009			Residues and decomposition products in production of polymers		10-Jan-2005	1-Feb-2014
97	Monomethyldichlorodiphenylmethane	81161-70-8	P	LR	Reg. (EC) No 552/2009			Residues and decomposition products in production of polymers		10-Jan-2005	1-Feb-2014
98	Monomethyltetrachlorodiphenylmethane	76253-60-6	P	LR	Reg. (EC) No 552/2009			Residues and decomposition products in manufacture of polymers		10-Jan-2005	1-Feb-2014
99	Naphthalenedisulfonic acid, dinonyl-	60223-95-2	D	FI	Included in list of substances under assessment in phase 3 of Canadian Chemical Management Plan (CMP3) (2016-2020)					1-Feb-2017	
100	Naphthalenesulfonicacid, dinonyl-, calcium salt (2:1)	57855-77-3	D	FI	Included in list of substances under assessment in phase 3 of Canadian Chemical Management Plan (CMP3) (2016-2020)					1-Feb-2017	

101	Naphthalenesulfonicacid, dinonyl-	25322-17-2	D	FI	Included in list of substances under assessment in phase 3 of Canadian Chemical Management Plan (CMP3) (2016-2020)					1-Feb-2017	
102	2-Naphthalenol, 1-[(4-methyl-2-nitrophenyl)azo]- (Pigment Red 3)	2425-85-6	D	FI	Canada Gazette Vol. 140, No. 49 - December 9, 2006 (Canadian Challenge). The Canadian Challenge is regulated under the Part 5, Section 71, of the Canadian Environmental Protection Ac t, 1999 (CEPA, 1999).			Azo dye. All Assemblies; Airbag; Antennae; Labels, Decals, Tags	0.1%, Report any intentionally added content. No testing required.	1-Feb-2009	17-Mar-2009
103	2-Naphthylamine and its salts, all members		P	LR	Reg. (EC) No 1272/2008, carcinogen class 2 Reg. (EC) No 552/2009			Impurities in textile and leather paints, antioxidants in lubricants, rubber/latex, plastics	0.01%	10-Jan-2005	1-Feb-2009
104	N-1-naphthylaniline	90-30-2	D	FI	Included in list of substances under REACH PACT assessment			Elastomers / elastomeric compounds; Lubricants		1-Feb-2017	
105	Nickel and its compounds, all members		D/P	FI/FA/LR	Reg. (EC) No 552/2009			Welding electrodes, flame spraying, special materials, component in metals		10-Jan-2005	1-Feb-2016
106	Nitrites, all members		D/P	FI/LR	Reg. (EC) No 1272/2008			Additives in engine coolants, vulcanising agents in rubber products, anticorrosion surface additive. Reaction product precursor for potentially carcinogenic N-nitroso-compounds		10-Jan-2005	1-Feb-2014
107	4-Nitrobiphenyl and its salts, all members		P	LR	Reg. (EC) No 1272/2008, carcinogen class 2 Reg. (EC) No 552/2009			Impurities in textile and leather paints, antioxidants in lubricants, rubber/latex, plastics	0.01%	10-Jan-2005	1-Feb-2006
108	Nitrocellulose	9004-70-0	D	FI	Reg. (EC) No 1272/2008 Dir. 2007/23/EC			Pyrotechnical compound		10-Jan-2005	
109	N-Nitrosamines, selected		D/P	FA	Legally regulated according to German TRGS 552 limit for workplace air (value 1 µg/m3), TRGS 615 limit for volatile corrosion inhibitors and TRGS 905 classified as carcinogenic class 1. Legally regulated for corrosion inhibition in papers, plastic films and oils via limiting the corresponding sec. amines to 0.5 %.		Polyurethane foams and corrosion inhibitors			10-Jan-2005	29-Jan-2008
110	Nonylphenol, selected	25154-52-3	D	LR	Reg. (EC) No 1272/2008 Reg. (EC) No 552/2009 Reg. (EC) No 1907/2006			Residues on metals, leather and textiles from their processing.		1-Feb-2008	1-Feb-2015
111	Nonylphenol ethoxylates, all members		D	FI/LR	Reg. (EC) No 1907/2006 (REACH)			Surfactants, leather processing		10-Jan-2005	1-Feb-2016
112	Octadecanamine	124-30-1	D	FI	Included in list of substances under assessment in phase 3 of Canadian Chemical Management Plan (CMP3) (2016-2020)					1-Feb-2017	
113	Octamethyltrisiloxane	107-51-7	D	FI	Included in list of substances under REACH PACT assessment			Adhesives, sealants, Lacquers		1-Feb-2017	
114	7-Oxa-3,20-diazadispiro[5.1.11.2]-heneicosan-21-one, 2,2,4,4-tetramethyl-	64338-16-5	D	FI	Canadian Priority List in 2008, and Producers, importers and related industry in Canada have to submit information on production or import amount.			hinderd amine light stabilizer Car refinish coating, Plastics or Wood coating and Binder of Acryl or Polyester resin		1-Feb-2009	1-Feb-2017
115	Ozone depleting halogenated Hydrocarbons and Carbons, all members		P	LR	Reg. (EEC) No 594/91; Reg. (EC) No 1005/2009; Montreal Protocol; US EPA Class 1 ODS					1-Feb-2016	
116	Pentachlorobenzene	608-93-5	P	LR	Prohibition of Certain Toxic Substances Regulations, 2005 (SOR/SOR/2005-41. Published in Canada Gazette Part II, 2006-11-29 Vol. 140, No. 24			Flame retardant	intentionally added con	1-Feb-2008	
117	Pentachlorophenol (PCP) and its salts and esters, all members		P	LR	Reg. (EC) No 1272/2008 Reg. (EC) No 552/2009 Japan Chemical Substance Control Law [Class I]			Wood preservative, salts used in leather treatment, stabilizer for latex	5ppm	10-Jan-2005	1-Feb-2017
118	Perchlorates, all members		D/P	FA	California Assembly Bill No. 826 - Perchlorate Contamination Prevention Act; implemented July 1, 2006. http://www.dtsc.ca.gov/HazardousWaste/Perchlorate/			Pyrotechnical compound		10-Jan-2005	1-Feb-2013
119	Perfluorooctane sulfonates C8F17SO2X (X = OH, Metal salt, halide, amide, and other derivatives including polymers) (PFOS), all members		P	LR	Reg. (EC) No 552/2009 Dir. 2006/122EC Japan Chemical Substances Control Law [Class I]			Surface coatings, Surfactants, Ingredient in the textile protective treatment. May not be placed on the market or used as a substance or constituent of preparations or in products or parts.		10-Jan-2005	1-Feb-2011
120	PFNA, Perfluorononan-1-oic-acid and its sodium and ammonium salts		D	LR	Substance group was added to REACH Candidate List in December 2015 --> immediate					1-Feb-2017	
121	PFOA, Perfluorooctanoic acids C8F15O2H, its salts, esters, higher homologues and precursors, all members		D	LR	In Canada PFOAs have been declared CEPA Toxic and the government has proposed a ban on the use, manufacture, release, and import of PFOAs. A regulation is expected in 2014/2015. In January 2006, the EPA created a Voluntary Stewardship Program to reduce facility emissions and product content of PFOA, its higher homologues, and related chemicals including precursors on a global basis by 95 percent no later than year-end 2010, and to work toward eliminating emissions and product content of these materials by 2015. Norway has recently issued a regulation for PFOA in consumer products and several US states (New Jerey, Minnesota) have issued drinking water guidelines for PFOA. USEPA has also established drinking water limits in the Parkersburg, WVA vicinity . The EU has issued a directive on PFOS and has PFOA under review.			Fluoropolymers are used to make automotive components, including fuel hoses, gaskets, wire insulations, bearings. PFOA is used as a polymerization aid and it is not expected to be present at greater than trace levels in the components made from fluoropolymers	0.1% by mass in components made from fluoropolymers. PFOA is primarily used in the manufacture of fluoropolymers as a polymerization aid. It is not expected to be present at greater than trace levels in the final components made from fluoropolymers	1-Feb-2008	1-Feb-2016
122	Phenol	108-95-2	D	FI	Reg. (EC) No 1272/2008			Residual monomer in phenolic resins, epoxy resins, anti-oxidant in phenol derivatives, decomposition product in polymeric materials, wooden materials and textiles		10-Jan-2005	
123	Phenol, 2,4-bis(1,1-dimethylethyl)-	96-76-4	D	FI	Included in list of substances under assessment in phase 3 of Canadian Chemical Management Plan (CMP3) (2016-2020)					1-Feb-2017	
124	Phenol, 2,6-bis(1,1-dimethylethyl)-	128-39-2	D	FI	Included in list of substances under assessment in phase 3 of Canadian Chemical Management Plan (CMP3) (2016-2020)					1-Feb-2017	
125	Phenol, 2-(2H-benzotriazol-2-yl)-4,6-bis(1,1-dimethlethyl)- (UV 320)	3846-71-7	P	LR	Japan Chemical Substances Control Law [Class I] (EC) No1907/2006 (REACH Candidate List)			UV Stabilizer in plastics for trim parts, etc.		1-Feb-2007	1-Feb-2016
126	Phenol, 2-(2H-Benzotriazol-2-yl)-4,6-bis(1-methyl-1-phenylethyl)- (UV-234)	70321-86-7	D	FI	Included in list of substances under REACH PACT assessment Included in list of substances under assessment in phase 3 of Canadian Chemical Management Plan (CMP3) (2016-2020)			ABS, thermoplastics, duromers, dashboard, bumper,		1-Feb-2017	
127	Phenol, 2-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl)- (UV 329)	3147-75-9	D	FI	Included in list of substances under REACH PACT assessment. Included in list of substances under assessment in phase 3 of Canadian Chemical Management Plan (CMP3) (2016-2020).			UV stabilizer for Polycarbonate, PMMA, molding, light lenses, lining		1-Feb-2017	
128	Phenol, 2-(2H-benzotriazol-2-yl)-4-(1,1-dimethylethyl)-6-(1-methylpropyl)- (UV 350)	36437-37-3	D	LR	Reg. (EC) No 1907/2006 (REACH Candidate List)			UV-protection agents in coatings, plastics, rubber		1-Feb-2016	
129	Phenol, 2-(5-chloro-2H-benzotriazol-2-yl)-4,6-bis(1,1'-dimethylethyl)- (UV 327)	3864-99-1	D	LR	Japan Chemical Substances control Law [Monitoring] (EC) No1907/2006 (REACH Candidate List)			UV absorber used in moldings, doorside and roof etc.	Any intentionally added content must be reported	1-Feb-2009	1-Feb-2016
130	Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene	68610-51-5	D	FI	Included in list of substances under REACH PACT assessment			rubber, adhesives, sealants, elastomers, duromers		1-Feb-2017	
131	Phenol, 4,4',4''-(1-methyl-1-propanyl-3-ylidene)tris[2-(1,1-dimethylethyl)-5-methyl-	1843-03-4	D	FI	Included in list of substances under assessment in phase 3 of Canadian Chemical Management Plan (CMP3) (2016-2020)					1-Feb-2017	
132	Phenol, 4,4'-methylenebis[2,6-bis(1,1-dimethylethyl)-	118-82-1	D	FI	Included in list of substances under assessment in phase 3 of Canadian Chemical Management Plan (CMP3) (2016-2020)					1-Feb-2017	
133	Phenol, styrenated	61788-44-1	D	FI	Included in list of substances under REACH PACT assessment			Elastomers / elastomeric compounds, Adhesives, sealants		1-Feb-2017	
134	Phenol, 4-(1,1,3,3-tetramethylbutyl)-	140-66-9	D	FI	Included in list of substances under assessment in phase 3 of Canadian Chemical Management Plan (CMP3) (2016-2020)					1-Feb-2017	
135	Phenol, 2-(1-methylpropyl)-4,6-dinitro-	88-85-7	D	FI	Included in list of substances under assessment in phase 3 of Canadian Chemical Management Plan (CMP3) (2016-2020)					1-Feb-2017	
136	Phenol, 2,4,6-tris(1,1-dimethylethyl)-	732-26-3	D/P	LR	Japan Chemical Substance Control Law [Class I]			Petrochemical products		10-Jan-2005	1-Feb-2017
137	Phenylendiamines and its salts, selected		D	FI	Reg. (EC) No 1272/2008 Reg. (EC) No 552/2009		Dyes, chemical intermediate, Petrochemical additive			10-Jan-2005	1-Feb-2011
138	Phosphoric acid, bis[(1,1-dimethylethyl)phenyl] phenyl ester	65652-41-7	D	FI	Included in list of substances under assessment in phase 3 of Canadian Chemical Management Plan (CMP3) (2016-2020)			Flame Retardant		1-Feb-2017	
139	Phosphoric acid,(1,1-dimethylethyl)phenyl diphenyl ester	56803-37-3	D	FI	Included in list of substances under assessment in phase 3 of Canadian Chemical Management Plan (CMP3) (2016-2020)			Flame Retardant		1-Feb-2017	
140	Phosphoric acid, tris(2-methylphenyl) ester	78-30-8	D	FI	Reg. (EC) No 1272/2008, toxic and dangerous for the environment			component in lubricants for hydraulics, engines, gears, pumps		1-Feb-2009	
141	Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-propyl) esters, zinc salts	84605-29-8	D	FI	Included in list of substances under assessment in phase 3 of Canadian Chemical Management Plan (CMP3) (2016-2020)					1-Feb-2017	
142	Phosphorodithioic acid,mixed O,O-bis(2-ethylhexyl and iso-butyl and iso-propyl) esters, zinc salts	85940-28-9	D	FI	Included in list of substances under assessment in phase 3 of Canadian Chemical Management Plan (CMP3) (2016-2020)					1-Feb-2017	
143	Phosphorodithioic acid,mixed O,O-bis(iso-butyl and pentyl) esters, zinc salts	68457-79-4	D	FI	Included in list of substances under assessment in phase 3 of Canadian Chemical Management Plan (CMP3) (2016-2020)					1-Feb-2017	
144	Phosphorodithioic acid, mixed O,O-bis(sec-butyl and isooctyl) esters, zinc salts	113706-15-3	D	FI	Included in list of substances under assessment in phase 3 of Canadian Chemical Management Plan (CMP3) (2016-2020)					1-Feb-2017	
145	Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts	68649-42-3	D	FI	Included in list of substances under assessment in phase 3 of Canadian Chemical Management Plan (CMP3) (2016-2020)					1-Feb-2017	
146	Phthalates, selected		D/P	FI/FA/LR	Reg. (EC) No 552/2009 Reg. (EC) No 1907/2006 (REACH) US EPA Chemical Action Plan. http://www.epa.gov/oppt/existingchemicals/pubs/actionplans/phthalates.html	selected, see list below	REACH Authorisation Sunset Date (selected, see list below)	Plasticizer		10-Jan-2005	1-Feb-2016
147	Phthalic anhydride	85-44-9	D	FI	Included in list of substances under assessment in phase 3 of Canadian Chemical Management Plan (CMP3) (2016-2020)					1-Feb-2017	
148	Piperidine, 1,1'-(tetrathiodicarbonothioyl)bis-	120-54-7	D	FI	Included in list of substances under assessment in phase 3 of Canadian Chemical Management Plan (CMP3) (2016-2020)					1-Feb-2017	
149	Polyamine Curing Agents, selected		D	FI	Not currently regulated but releasable hexamines are relevant to vehicle interior air quality					10-Jan-2005	1-Feb-2007
150	Polybrominated biphenyls (PBB), all members		P	LR	Reg. (EC) No 552/2009 GB/T 30512 (ELV China)					10-Jan-2005	1-Feb-2017

151	Polybrominated diphenyl ethers (PBDE),all members		D/P	FI/LR	Reg. (EC) No 552/2009 Reg. (EC) No 1907/2006 (REACH) Japan Chemical Substances Control Law [Class I] GB/T 30512 (ELV China) Canada (SOR/2008-218)			Flame retardant		10-Jan-2005	1-Feb-2017
152	Polybrominated terphenyls (PBT), all members		D	FI				Flame retardants in plastics and textiles.		10-Jan-2005	1-Feb-2016
153	Polychlorinated biphenyls (PCB), all members		P	LR	Reg. (EC) No 552/2009; 40 CFR §761.185 Japan Chemical Substance Control Law [Class I]			Insulation fluid in electrical systems, switch boards transformers and condensers, in wood and paper impregnation, as a softening agent	EU > 0.0002% Japan: ≤ BAT Intentional addition and non intentional addition prohibited	10-Jan-2005	1-Feb-2017
154	Polychlorinated naphthalenes, all members		P	LR	Canadian Prohibition of Certain Toxic Substances Regulations, 2012 amended to prohibit the use, manufacture, import, sale and offer for sale any PCN effective January 1, 2013. Japan Chemical Substance Control Law [Class I]			switch boards transformers and condensers, in wood and paper impregnation, as a softening agent	Report any intentionally added content	10-Jan-2005	1-Feb-2017
155	Polychlorinated terphenyls (PCT), all members		P	LR	Reg. (EC) No 1907/2006 (REACH Annex XVII)			Insulation fluid in electrical systems, switch boards transformers and condensers, in wood and paper impregnation, as a softening agent	0.001%	10-Jan-2005	1-Feb-2017
156	Polycyclic aromatic hydrocarbons (PAH; PCAH) in extender oils and extender oils in tyres, selected		P	LR	Reg. (EC) No 552/2009			Extender oils and extender o	1 PPM for Benzo(a)Pyrene and 10 PPM for the sum of all PAHs listed below	1-Feb-2010	1-Feb-2015
156.1	Polycyclic aromatic hydrocarbons (PAH; PCAH) in polymers, selected		D	FI/FA	Reg. (EC) No 1272/2008 General Administration of Quality Supervision, Inspection and Quarantine (AQSIQ)of the People's Republic of China			Polymers	20 PPM for Benzo(a)Pyrene and 200 PPM for the sum of all PAHs listed below	1-Feb-2010	1-Feb-2016
157	1,3-Propanesultone	1120-71-4	D	LR	Reg. (EC) No 1907/2006 (REACH Candidate List)			Electrolite fluid in Lithium batteries		1-Feb-2016	
158	2-Propanone, reaction products with diphenylamine (PREPOD)	68412-48-6	D	FI	October 15, 2011 the Canadian government declared PREPOD as Toxic. They are proposing to ban the use of this substance.			additive in rubber parts, paint add	any intentionally addied content	1-Feb-2014	1-Feb-2015
159	Pyrrolidones, selected		D	FI/LR						1-Feb-2016	
160	Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides; Alkyl (C12-16) dimethylbenzyl ammonium chloride; C12-16-ADBAC;	68424-85-1	D	FI	Included in list of substances under assessment in phase 3 of Canadian Chemical Management Plan (CMP3) (2016-2020)					1-Feb-2017	
161	Quaternary ammonium compounds, benzyl(hydrogenated tallow alkyl)dimethyl, chlorides, compds. with bentonite	71011-24-0	D	FI	Included in list of substances under assessment in phase 3 of Canadian Chemical Management Plan (CMP3) (2016-2020)					1-Feb-2017	
162	Quaternary ammonium compounds, benzyl(hydrogenated tallow alkyl)dimethyl, chlorides, compds. with hectorite	71011-26-2	D	FI	Included in list of substances under assessment in phase 3 of Canadian Chemical Management Plan (CMP3) (2016-2020)					1-Feb-2017	
163	Quaternary ammonium compounds, bis(hydrogenated tallow alkyl)dimethyl, chlorides;	61789-80-8	D	FI	Included in list of substances under assessment in phase 3 of Canadian Chemical Management Plan (CMP3) (2016-2020)					1-Feb-2017	
164	Quaternary ammonium compounds, bis(hydrogenated tallow alkyl)dimethyl, salts with bentonite	68953-58-2	D	FI	Included in list of substances under assessment in phase 3 of Canadian Chemical Management Plan (CMP3) (2016-2020)					1-Feb-2017	
165	Quaternary ammonium compounds, dicoco alkyldimethyl, chlorides	61789-77-3	D	FI	Included in list of substances under assessment in phase 3 of Canadian Chemical Management Plan (CMP3) (2016-2020)					1-Feb-2017	
166	Resin acids and Rosin acids, calcium salts	9007-13-0	D	FI	Included in list of substances under assessment in phase 3 of Canadian Chemical Management Plan (CMP3) (2016-2020)					1-Feb-2017	
167	Resin acids and Rosin acids, sodium salts	61790-51-0	D	FI	Included in list of substances under assessment in phase 3 of Canadian Chemical Management Plan (CMP3) (2016-2020)					1-Feb-2017	
168	Resin acids and Rosin acids, hydrogenated, esters with pentaerythritol	64365-17-9	D	FI	Included in list of substances under REACH PACT assessment			adhesive, sealant, elastormers, solder flux, textiles, thermoplastics		1-Feb-2017	
169	Resin acids and Rosin acids, hydrogenated, esters with glycerol	65997-13-9	D	FI	Included in list of substances under REACH PACT assessment			adhesives, copper alloys, elastomers, electronics, modified organic natural materials, rayon		1-Feb-2017	
170	Resin acids and Rosin acids, hydrogenated, methyl esters	8050-15-5	D	FI	Included in list of substances under assessment in phase 3 of Canadian Chemical Management Plan (CMP3) (2016-2020)					1-Feb-2017	
171	Radioactive substances (including scrap metal contaminants), all members		D	FI	2013/59/EURATOM			High intensity discharge lamps	Above background radiation	10-Jan-2005	1-Feb-2016
172	Selenium and its compounds, all members		D/P	FI/FA/LR	Japan Waste Management and Public Cleansing Law			Photorelectronic device, Glass colorant and decolorant, Free-cutting steel, Semiconductor		1-Feb-2006	1-Feb-2015
173	Silica, crystalline	14808-60-7	D	FA	IARC Group 1 Carcinogen, US National Toxicology Program Probable Human carcinogen			Friction applications only	any intentionally added content	1-Feb-2008	
174	Sodium azide	26628-22-8	D	FI				Pyrotechnical compound		10-Jan-2005	
175	Styrene (Vinyl benzene)	100-42-5	D	FI	EU Risk Assessment			Residual monomer in ABS-, Polystyrene-, SMC-, UPE-resin		10-Jan-2005	
176	Styrene oxide (Epoxystyrene)	96-09-3	D	FI	Reg. (EC) No 1272/2008			Residual monomer		10-Jan-2005	6-Dec-2005
177	Succinic anhydride, octadecenyl-	28777-98-2	D	FI	Included in list of substances under assessment in phase 3 of Canadian Chemical Management Plan (CMP3) (2016-2020)					1-Feb-2017	
178	Sulfonic acids, C10-18-alkane, phenyl esters	70775-94-9	D	FI	Included in list of substances under assessment in phase 3 of Canadian Chemical Management Plan (CMP3) (2016-2020)					1-Feb-2017	
179	Sulfonic acids, petroleum, calcium salts, overbased	68783-96-0	D	FI	Included in list of substances under assessment in phase 3 of Canadian Chemical Management Plan (CMP3) (2016-2020)					1-Feb-2017	
180	Sulfonic acids, petroleum, barium salts	61790-48-5	D	FI	Included in list of substances under assessment in phase 3 of Canadian Chemical Management Plan (CMP3) (2016-2020)					1-Feb-2017	
181	Sulfonic acids, petroleum, calcium salts	61789-86-4	D	FI	Included in list of substances under assessment in phase 3 of Canadian Chemical Management Plan (CMP3) (2016-2020)					1-Feb-2017	
182	Sulfonic acids, petroleum, magnesium salts	61789-87-5	D	FI	Included in list of substances under assessment in phase 3 of Canadian Chemical Management Plan (CMP3) (2016-2020)					1-Feb-2017	
183	Sulfonic acids, petroleum, sodium salts	68608-26-4	D	FI	Included in list of substances under assessment in phase 3 of Canadian Chemical Management Plan (CMP3) (2016-2020)					1-Feb-2017	
184	Sulfur hexafluoride	2551-62-4	D/P	FI/LR	EC No. 842/2006			Vehicle applications (e.g. tire inflator systems)		10-Jan-2005	1-Feb-2015
185	Tall Oil	8002-26-4	D	FI	Included in list of substances under assessment in phase 3 of Canadian Chemical Management Plan (CMP3) (2016-2020)					1-Feb-2017	
186	Tall oil pitch	8016-81-7	D	FI	Included in list of substances under assessment in phase 3 of Canadian Chemical Management Plan (CMP3) (2016-2020)					1-Feb-2017	
187	Tetrabromobisphenol A (TBBPA)	79-94-7	D	FI	EU risk assessment			Flame retardants in polymers, textiles etc.		10-Jan-2005	
188	Tetrachlorobenzene, all members		P	LR	Prohibition of Certain Toxic Substances Regulations, 2005 (SOR/SOR/2005-41. Published in Canada Gazette Part II, 2006-11-29 Vol. 140, No. 24				Any intentionally added content	1-Feb-2008	1-Feb-2012
189	Methane, tetrafluoro-	75-73-0	D/P	FI/LR	Reg. (EC) No. 842/2006			pressure accumulator		1-Feb-2008	1-Feb-2014
190	Thallium	7440-28-0	D	FI	Reg. (EC) No 1272/2008					10-Jan-2005	1-Feb-2015
191	Thioperoxydicarbonic diamide ([(H2N)C(S)]2S2), tetramethyl-	137-26-8	D D/P	LR LR	Japan Waste Management and Public Cleansing Law Reg. (EU) No 528/2012 See GADSL Reference Biocide			Vulcanization accelerator for rubber Biocidal applications		10-Jan-2005	1-Feb-2016
192	Thiram; Tetramethylthiuram disulphide;	137-26-8	D	FI	Included in list of substances under assessment in phase 3 of Canadian Chemical Management Plan (CMP3) (2016-2020)					1-Feb-2017	
193	Toluene	108-88-3	D	FI	Reg. (EC) No 1272/2008, Toxic for reproduction-Category 3. Possible risk of harm to the unborn child. Reg. (EC) No 552/2009			Residues in adhesives and paints.		1-Feb-2008	
194	o-Toluidine generating substances, selected		D	FI						1-Feb-2008	1-Feb-2014
195	2,4,6-Triallyloxy-1,3,5-triazine	101-37-1	D	FI	Included in list of substances under REACH PACT assessment			elastomers, thermoplastic elastomers, polarizer, primer		1-Feb-2017	
196	Trichlorophenol and its salts, all members		D	FI	Reg. (EC) No 1272/2008			Biocide (e.g. preservative for leather and textiles)		10-Jan-2005	
197	Trichloropropane (1,2,3 - Trichloropropane)	96-18-4	D	LR	Reg. (EC) No 1272/2008 Reg. (EC) No 1907/2006 (REACH Candidate List)			As solvent and as trifunctional cross-linking agent e.g. for polysulphide elastomers		10-Jan-2005	1-Feb-2015
198	Trimethylphosphate	512-56-1	D	FI	Reg. (EC) No 552/2009			Flame retardant		10-Jan-2005	
199	Triorganotin compounds, all members		P	LR	Reg. (EC) No 552/2009, Reg. (EC) No 1272/2008, Reg. (EC) No 1907/2006 (REACH) Japan Chemical Substances Control Law [Class I]. Canadian Prohibition of Certain Toxic Substances Regulations, 2012 amended to prohibit the use, manufacture, import, sale and offer for sale of any TBT effective January 1, 2013 except TBTs with the grouping (C4H9)4Sn which are permitted up to a max concentration of 30% (w/w).			Biocides		10-Jan-2005	1-Feb-2012
200	Triphenylphosphate	115-86-6	D	FA	Flame retardant under review			Flame retardant		10-Jan-2005	6-Dec-2005
201	Tris(1,3-dichloro-2-propyl)phosphate	13674-87-8	D	FA	US California Prop 65 notify/labelling will be required, but not eliminated at this time http://oehha.ca.gov/prop65/background/p65plain.html,					1-Feb-2012	
202	Tris-(1-aziridinyl) phosphine oxide	545-55-1	P	LR	Dir. 83/264/EEC			Flame retardant		10-Jan-2005	
203	Tris(2,3-dibromopropyl)phosphate (TRIS)	126-72-7	P	LR	Dir. 79/663/EEC			Flame retardant		10-Jan-2005	
204	Tris(2-chloroethyl)phosphate	115-96-8	D/P	LR	Reg. (EC) No 1272/2008 Reg. (EC) No 1907/2006 (REACH Annex XIV)	21-Aug-15	REACH Authorisation Sunset Date	Flame retardant		10-Jan-2005	1-Feb-2016
205	tris(2-ethylhexyl)-benzene-1,2,4-tricarboxylate	3319-31-1	D	FI	Included in list of substances under REACH PACT assessment			Elastomers / elastomeric compounds, unfilled Thermoplastics, Plastics (in polymeric compounds), Textiles (in polymeric compounds)		1-Feb-2017	
206	Tris(methylphenyl) phosphate	1330-78-5	D	FI	Included in list of substances under REACH PACT assessment			Adhesives, sealants; Lubricants; Unfilled Thermoplastics; Elastomers / elastomeric compounds		1-Feb-2017	
207	Tris(nonylphenyl) phosphite (TNPP)	26523-78-4	D	FI	Included in list of substances under REACH PACT assessment			Adhesives, sealants; Elastomers / elastomeric compounds		1-Feb-2017	
208	Trixylyl phosphate	25155-23-1	D	LR	Reg. (EC) No 1907/2006 (Candidate List)			flame retardant in polymer systems, phosphatizing agent, oil additive		1-Aug-2014	
209	zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate)	4259-15-8	D	FI	Included in list of substances under REACH PACT assessment			grease, lubricant, Elastomers / elastomeric compounds		1-Feb-2017	

	Ammonium Nitrate (AN)	6484-52-2	D	H	The use of ammonium nitrate (AN) in explosives has been the means for violent attacks at Canada's borders. AN is also a precursor to explosives.			Substance is restricted under certain jurisdictional controls		2 Feb 2018	
	1,4-Benzenediamine, N,N'-nitroso-N,N'-dinitroso-	3251-01-0	D	H	Included in list of substances under REACH PACT assessment					2 Feb 2018	
	1,4-Benzenediamine, N,N'-nitroso-N,N'-dipentyl-	7226-23-5	D	H	Included in list of substances under REACH PACT assessment			Anti-degrading agent in rubber		2 Feb 2018	
	1,4-Benzenediamine, N,N'-nitroso-N,N'-dipentyl-N,N'-dinitroso-	13474-16-5	D	H	Included in list of substances under REACH PACT assessment			Anti-degrading agent in rubber		2 Feb 2018	
	Nitric acid, zirconium salt, basic, hydrate	12164-94-2	D,P	H						2 Feb 2018	
	Lithium nickel cobalt aluminum oxide	177057-13-5	D	H						2 Feb 2018	
	C.I. Pigment Blue 74 (Cobalt (II) Silicate Blue Phthacyan)	68412-74-8	D	H						2 Feb 2018	
	2,4-Dinitrotoluene	121-14-2	P	LR	May 2021 Am 13th Order (Annex 2, Schedule 2(2))	D; Aug-23	Health Authorities	Health		2 Feb 2018	
	2,2'-[(Dibutylstannylene)bis(thio)]bis[ethanol]	10084-85-1	D,P	H,LR						2 Feb 2018	
	Isobutyl benzoate, 4-(methylthio)-	71449-28-2	D,P	H,LR						2 Feb 2018	
	Ranvenu, diacetyl, tolunex acetoxy derivs.	53435-35-9	D,P	T,S,S						2 Feb 2018	
	2-Ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate	57583-35-4	D	H	Included in list of substances under REACH PACT assessment			Thermo, Sulfur stabilizer		2 Feb 2018	
	Dioctyltin dichloride	753-73-1	D	H	Included in list of substances under REACH PACT assessment			Thermo, Sulfur stabilizer		2 Feb 2018	
	bis(1-methylheptyl)amine	123-57-9	D	H	Included in list of substances under REACH PACT assessment			Thermo, Sulfur stabilizer		2 Feb 2018	
	bis(1,2,2,6,6-Pentamethylpiperidin-4-yl) sebacate	41556-26-7	D	H	Included in list of substances under REACH PACT assessment					2 Feb 2018	
	Molybdenum trioxide	1313-27-5	D	H	Included in list of substances under REACH PACT assessment			Thermo, Sulfur stabilizer		2 Feb 2018	
	[(Carboxylato)-2- tetrahydrogenboride	14221-10-4	D	H	Included in list of substances under REACH PACT assessment			Ceramic product, Glass product, Paint		2 Feb 2018	
	Lithium nickel cobalt aluminum oxide	177057-13-5	D	H						2 Feb 2018	
	2(3)-Octylphenyl phosphorothioate	1977-42-5	D	H	Included in list of substances under REACH PACT assessment			Additive, Electronics, Fire or explosives, glass, Lubricant, Paint, Solvent		2 Feb 2018	
	Perfluorohexane-1-sulphonic acid and its salts, all members		D	H	May 2021 Am 13th Order (Annex 2, Schedule 2(2))					2 Feb 2018	
	Perfluorohexane-1-sulphonic acid	355-46-4	D	H							
	Perfluorohexane-1-sulphonic acid, ammonium salt	68259-08-5	D	H							
	Perfluorohexane-1-sulphonic acid, potassium salt	3871-99-6	D	H							
	7-pentadecanone, 6,8,9,9,9,8,8,7,7,6,6,5,5,4,4,3,3,2,2,1-eicosafluoro-1-(1,2,2,2-tetrafluoroethoxy)-1,1,2,3,3-pentamethyl-	210366-17-9	D,P	LR							
	Perfluoro compounds, C5-18	92338-42-1	D,P	LR							
	1H,1H,2H,2H-Perfluorooctyl methacrylate	2144-53-8	D,P	LR							
	2-Propenoic acid, 2-(1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctyl)-1,3-propanediyl ester	13048-08-4	D,P	LR							
	2-Propenoic acid, 2-methyl-, reaction products with 1,1-dichloroethene, 2,4-dihydroxy-2-methylpentyl 2-methyl-2-propenoate and 1,3-isobenzofurandione	67310-81-7	D,P	LR							
	Siloxanes and Silicones, di-Me, reaction products with 3-aminopropyl-Me diethoxysilane-terminated, polymers with 1,3-bis(isocyanatomethyl)benzene, 2-butanone- and 3-ingredient polydimethylsiloxane-terminated, hydrolysis products	70238-99-1	D,P	LR							
	Terbinafine, (2E,5E)-6-(6,6-dimethylhept-2-en-4-ynyl)-N,2-dimethyl-N-(naphthalen-1-ylmethyl)hepta-2,5-dien-1-amine	91161-71-6	D,P	LR							
	Phenol, 4-(1,1,3,3-tetramethylbutyl)-, ethoxylated, sulfated		D	LR	May 2021 Am 13th Order (Annex 2, Schedule 2(2))						
	Alpha-(2,1,3,3-Tetramethylbutylphenyl)-omega-hydroxypoly(oxyethylene)	9036-19-5	D	LR	May 2021 Am 13th Order (Annex 2, Schedule 2(2))	4-Oct-23	Health Authorities				
	Poly(oxy(methyl-1,2-ethanediyl)), alpha-(nonylphenyl)-omega-hydroxy-, branched	127087-87-0	D	LR	May 2021 Am 13th Order (Annex 2, Schedule 2(2))	4-Oct-23	Health Authorities, Human Data				
	Phenol, nonyl-, high-temp.	84852-15-3	D	LR	May 2021 Am 13th Order (Annex 2, Schedule 2(2))	4-Oct-23	Health Authorities, Human Data				
	1,1'-Biphenyl, tetramethyl-	1412-69-5	D	LR							
	bis(1-octyloxy-2,2,6,6-tetramethylpiperidin-4-yl) sebacate	129241-56-8	D	H	Included in list of substances under REACH PACT assessment						
	2,2'-bis(4-hydroxyphenyl)propane	1478-61-1	D	H	Included in list of substances under REACH PACT assessment			Flame retardant		2 Feb 2018	
	Tetraphenyl tin phenylene bisphosphate	57583-34-7	D	H	Included in list of substances under REACH PACT assessment			Flame retardant		2 Feb 2018	
	Tris(2-chloro-1-methylethyl) phosphate	13674-84-5	D	H	Included in list of substances under REACH PACT assessment			Thermo, Sulfur (odd), adhesive		2 Feb 2018	
	Amines, N-C16-18-alkyl (even-numbered) propane-1,3-diamine	147170-44-3	D	H	Included in list of substances under REACH PACT assessment			Lubricant		2 Feb 2018	

Important Notice- please read!

The GADSL document and the reference list use two main classifications to identify regulatory status, declarable (D) and prohibited (P).

There has been some confusion in the user community over the use of the "declarable" classification.

When a substance is classified D three reason codes are possible:
D/LR: reporting is required by a regulation;
D/FA: it is being assessed by a regulatory agency for possible but not necessarily probable restriction or;
D/FI: information is being collected for a non-regulatory purpose.

In the later two cases the substance may be removed from the list after the evaluation has been completed as is the case with several substances that were evaluated under the Canadian Chemical Challenge because it was determined that no action or restriction on use was necessary to protect human health or the environment.

KAB / Seating | **Grey Restricted Substances List** | **KD 964-01** | **VERSION 15 June 2018**

100-0003 Issue 15 **Substance** **Prohibition date (to be transferred to STD 100-0002, Volvo´s black list)**	**CAS No.**	**Examples of occurence**	**Application**	**Threshold (Unless otherwise specified 0,1%)**	**Risk**	**First added**	**Last revised**
Acrylonitrile	107-13-1	Adhesives, plastics			C, E, T	15/03/2015	
Amines, which can form carcinogenic nitrosamines	Various	Corrosion inhibitors, lubricants, metal working fluids (MWF)	May form carcinogenic N-nitrosamines when combined with nitrating agents. The grey list only applies when amines are used together with nitrating agents, e.g. in corrosion inhibitors or metalworking fluids.	0.2%	C	before 2006-02-01	
N,N-Diethanolamin	111-42-2				C		
N,N-Diethylamin	109-89-7				C		
N,N-Di-i-propylamin	108-18-9				C		
N,N-Dimethylamin	124-40-3				C		
N,N-Di-n-propylamin	142-84-7				C		
N,N-Di-n-butylamin	111-92-2				C		
N,N-Ethylphenylamin	103-69-5				C		
N,N-Methylethylamin	624-78-2				C		
N-Methyl-N-phenylamin	100-61-8				C		
Morpholin	110-91-8				C		
Piperazine	110-85-0				C		
Piperidin	110-89-4				C		
Pyrrolidin	123-75-1				C		
Biocides	Various	Biocides in paints, lubricants, MWF		Various	A, E, T	before 2006-02-01	15/03/2011
Phenol, 4-chloro-3-methyl- (meta)	59-50-7				A, E		
Phenol, 4-chloro-2-methyl- (ortho-)	1570-64-5				E, T		
Methylisotiazolinone	2682-20-4				A		
2-Octyl-2H-isothiazol-3-one (OIT)	26530-20-1			0.05%	A, E	15/03/2011	
4,5-Diklor-2-n-oktyl-4-isothiazolin-3.on (DCOIT)	64359-81-5			0.05%	A, E	15/03/2011	
1,2-benzisotiazol-3(2H)-on (BIT)	2634-33-5			0.05%	A, E	15/03/2011	
1,2-benzisothiazol-3(2H)-one, sodium salt (Na-BIT)	58249-25-5			0.05%	A, E	15/03/2011	
Bisphenol A	80-05-7	Polymer content (PC and PUR)		0,3%	A, ED, R	15/03/2013	
Boron compounds, selected	Various	Metal working fluids (MWF)		Various	R	15/03/2011	15/03/2015
Boric acid	10043-35-3			5.5%	R	15/03/2011	
Boric acid	11113-50-1			5.5%	R	15/03/2011	
Perboric acid, sodium salts	7632-04-4 10486-00-7			6.5%	R	15/03/2015	
Tetraborate, anhydrous	1330-43-4			4.5%	R	15/03/2011	
Tetraborate, pentahydrate	12179-04-3			6.5%	R	15/03/2011	
Tetraborate, decahydrate	1303-96-4			8.5%	R	15/03/2011	
Tetraboate, heptahydrate	12267-73-1			4.5%	R	15/03/2011	
Boron oxide	1303-86-2			3.1%	R	15/03/2013	
Carbendazim	10605-21-7	Sealants, antifungal agents			E, M, R	15/03/2015	
C.I. Basic Violet 3	548-62-9	Dye			C, E	15/03/2015	
Diazene-1,2-dicarboxamide (C,C'-azodi(formamide)) (ADCA)	123-77-3	Electrophoretic coating, foamed plastics, sealer		1%	A	15/03/2014	
Diorganotin compounds	Various	Stabilizers, catalysts, curing agents and antifouling biocides	For use as antifouling agent Volvo's black list applies (STD 100-0002). For other use Volvo's grey list applies (STD 100-0003)		E, R, T	15/03/2011	15/03/2015
3,8,10-Trioxa-9-stannatetradeca-5,12-dien-14-oic acid, 9,9-dibutyl-2-methyl-4,7,11-trioxo-, 1-methylethyl ester, (Z,Z)-	22535-42-8				E, R, T	15/03/2011	
3,8,10-Trioxa-9-stannatetradeca-5,12-dien-14-oic acid, 9,9-dibutyl-4,7,11-trioxo-, ethyl ester, (Z,Z)-	13173-04-1				E, R, T	15/03/2011	
5,7,12-Trioxa-6-stannatetracosa-2,9-dienoic acid, 6,6-dibutyl-4,8,11-trioxo-, didecyl ester, (Z,Z)-	33466-31-8				E, R, T	15/03/2011	
Acetate, S,S'-bisoctylmercapto-, dibutyltin	32011-18-0				E, R, T	15/03/2011	
Bis (acetato) dibutyltin	17523-06-7				E, R, T	15/03/2011	
Dibutyl tin	1002-53-5				E, R, T	15/03/2011	
Dibutylbis(ethyl 3-oxobutyrato-O1',O3)tin	54581-65-6				E, R, T	15/03/2011	
Dibutyltin bis(2-ethylhexyl-3-mercaptopropionate)	53202-61-2				E, R, T	15/03/2011	
Dibutyltin bis(benzyl maleate)	7324-74-5				E, R, T	15/03/2011	
Dibutyltin bis(cyclohexyl maleate)	5587-52-0				E, R, T	15/03/2011	
Dibutyltin bis(isooctyl mercaptoacetate)	25168-24-5				E, R, T	15/03/2011	
Dibutyltin bis(lauryl β-mercaptopropionate)	51287-83-3				E, R, T	15/03/2011	
Dibutyltin bis(octylthioglycolate)	2781-09-1				E, R, T	15/03/2011	
Dibutyltin bis(oleyl maleate)	29881-72-9				E, R, T	15/03/2011	
Dibutyltin di(isooctyl 3-mercaptopropionate)	26761-46-6				E, R, T	15/03/2011	
Dibutyltin diacetate	1067-33-0				E, R, T	15/03/2011	
Dibutyltin dibenzoate	5847-54-1				E, R, T	15/03/2011	
Dibutyltin dibutoxide	3349-36-8				E, R, T	15/03/2011	
Dibutyltin dichloride	683-18-1				E, R, T	15/03/2011	
Dibutyltin dihexanoate	19704-60-0				E, R, T	15/03/2011	
Dibutyltin dilaurate	77-58-7				E, R, T	15/03/2011	
Dibutyltin dilauryl mercaptide	1185-81-5				E, R, T	15/03/2011	
Dibutyltin dimaleate	10192-92-4				E, R, T	15/03/2011	
Dibutyltin dioctanoate	4731-77-5				E, R, T	15/03/2011	
Dibutyltin dioleate	13323-62-1				E, R, T	15/03/2011	
Dibutyltin dipalmitate	13323-63-2				E, R, T	15/03/2011	
Dibutyltin disalicylate	14214-24-5				E, R, T	15/03/2011	
Dibutyltin distearate	5847-55-2				E, R, T	15/03/2011	
Dibutyltin hydrogen borate	75113-37-0				E, R, T	15/03/2011	
Dibutyltin isooctanoate	85702-74-5				E, R, T	15/03/2011	
Dibutyltin linoleate	85391-79-3				E, R, T	15/03/2011	
Dibutyltin linolenate	95873-60-2				E, R, T	15/03/2011	
Dibutyltin maleate	78-04-6				E, R, T	15/03/2011	
Dibutyltin mercaptoacetate	78-20-6				E, R, T	15/03/2011	
Dibutyltin mercaptopropionate	78-06-8				E, R, T	15/03/2011	
Dibutyltin oxide	818-08-6				E, R, T	15/03/2011	
Dibutyltin S,S'-bis (isooctyl mercaptoacetate)	26636-01-1				E, R, T	15/03/2011	
Dibutytin di(2-ethylhexyl maleate)	15546-12-0				E, R, T	15/03/2011	
Di-n-butyltin bis(methyl maleate)	15546-11-9				E, R, T	15/03/2011	
Di-n-butyltin di(monobutyl)maleate	15546-16-4				E, R, T	15/03/2011	
Di-n-butyltin di-2-ethylhexanoate	2781-10-4				E, R, T	15/03/2011	
Dioctyl tin	26401-97-8				E, R, T	15/03/2011	
Dioctyltin bis(2-ethylhexyl thioglycolate)	15571-58-1				E, R, T	15/03/2011	
Dioctyltin bis(isooctyl maleate)	33568-99-9				E, R, T	15/03/2011	
Dioctyltin dichloride	3542-36-7				E, R, T	15/03/2011	
Dioctyltin maleate	16091-18-2				E, R, T	15/03/2011	
Dioctyltin oxide	870-08-6				E, R, T	15/03/2011	
Diisobutyltin oxide	61947-30-6				E, R, T	15/03/2011	
Dimethoxybis(pentane-2,4-dionato-O,O')tin	66779-19-9				E, R, T	15/03/2011	
Tin, dichloro[29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32]-, (OC-6-12)-	18253-54-8				E, R, T	15/03/2011	
Dibutytin-Di-Thioalkylate	10584-98-2				E, R, T	15/03/2013	
Di-N-Butyldineodecanoate tin	25168-22-3				E, R, T	15/03/2013	
Dibutyltincarboxylate	85702-74-5				T	15/03/2013	
6,6-Dibutyl-4,4,8,8-tetraoxi-3,5,7,9-tetraoxa-4,8-disila-6-stannaundecane	87735-26-0				M, R	15/03/2014	
Dioctyltin dilaurat	3648-18-8				R, E	15/03/2014	
Ethyl 9,9-dioctyl-4,7,11-trioxo-3,8,10-trioxa-9-stannatetradeca-5,12-dien-14-oate (diorgano tin compound)	68109-88-6				E, R	15/03/2015	
Tin, dibutyl(1,2-ethanediamine-N,N')bis(monoisooctyl 2-butenedioato-O')-	163206-28-8				E, R, T	15/03/2011	
Tin, dibutyl[N-(carboxymethyl)-N-(2-hydroxyethyl)glycinato(2-)]-	68239-46-3				E, R, T	15/03/2011	
Tin, dibutylbis(2,4-pentanedionato-O,O')-, (OC-6-11)-	22673-19-4				E, R, T	15/03/2011	
Tin, dibutylbis(methyl 3-mercaptopropanoato-O,S)-	32011-19-1				E, R, T	15/03/2011	
Tin, dibutylbis(N,N-diethylethanamine)difluoro-	67924-24-7				E, R, T	15/03/2011	
Formaldehyde	50-00-0	Paint, adhesives, filler, binder for casting cores			C, M	15/03/2015	
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	Paints, adhesives, sealants			E	15/03/2016	
Hexamethylene diacrylate (hexane-1,6-diol diacrylate)	13048-33-4	Adhesives			A	15/03/2016	
n-Hexane	110-54-3	Solvents, common in petroleum naphthas		0.1%	N	before 2006-02-01	
Hydrofluoric acid	7664-39-3	Surface treatment	For use as surface treatment Volvo's grey list applies (STD 100-0003). For other use Volvo's black list applies (STD 100-0002)		T	before 2006-02-01	
Imidazole	288-32-4	Corrosion inhibitor		0.3%	R	15/03/2015	
N-ethyl- 2-pyrrolidone (NEP) **2019-03-15**	2687-91-4	Paint, cleaning agents		0.3%	R	15/03/2015	15/03/2017
Nickel, metallic	7440-02-0	Surface treatment	Only applicable to component surface coatings exceeding the limit values for nickel release according to EC No. 1907/2006 (REACH, Annex XVII), that is 0,5 µg nickel/cm2/week when tested in accordance with EN 1811:2011 and EN 12472:1998+A1 2009		A	before 2006-02-01	
Nickel compounds, selected	Various	Surface treatment and phosphating			C, A, E	15/03/2011	15/03/2012
nickel monoxide	1313-99-1				C, A, E		
nickel dioxide	12035-36-8				C, A, E		
dinickel trioxide	1314-06-3				C, A, E		
nickel (II) sulfide	16812-54-7				C, A, E		
trinickel disulfide, nickel subsulfide	12035-72-2				C, A, E		
nickel dihydroxide	12054-48-7				C, A, E		
nickel sulfate	7786-81-4				C, A, E		
nickel carbonate, basic nickel carbonate, carbonic acid, nickel (2+) salt	3333-67-3				C, A, E		
nickel dichloride	7718-54-9				C, A, E		
nickel dinitrate	13138-45-9				C, A, E		
nickel bis(sulfamidate), nickel sulfamate	13770-89-3				C, A, E		
nickel di(acetate)	373-02-4				C, A, E		
trinickel bis(orthophosphate)	10381-36-9				C, A, E		
nickel bis(dihydrogen phosphate)	18718-11-1				C, A, E	15/03/2012	
Nitrites	Various	Additives in engine coolants, anticorrosion surface additives.	Nitrite may form carcinogenic N-nitrosamines when combined with secondary amines. The grey list only applies when nitrites are used together with secondary amines, e.g. in corrosion inhibitors or metalworking fluids	0.5%	C	before 2006-02-01	
Ammonium nitrite	13446-48-5				C		
Amyl nitrite	110-46-3				C		
Barium nitrite hydrate	115216-77-8				C		
Butyl nitrite	544-16-1				C		
Calcium nitrite	13780-06-8				C		
Calcium nitrite hydrated	10031-34-2				C		
Ethyl nitrite	109-95-5				C		
Isobutyl nitrite	542-56-3				C		
Magnesium nitrite	15070-34-5				C		
Nitrite	14797-65-0				C		
Potassium nitrite	7758-09-0				C		
Silver nitrite	7783-99-5				C		
Sodium nitrite	7632-00-0				C		
tert-Butyl nitrite	540-80-7				C		
N-methyl-2-pyrrolidone (NMP) **2019-03-15**	872-50-4	Solvents, paint strippers, plasticizers, stabilizers			R	15/03/2012	15/03/2017
N,N-dimethylformamide (DMF)	68-12-2	Solvents		0,3%	R	15/03/2014	
Octamethylcyclotetrasiloxane	556-67-2	Industrial cleaning, silicone polymers,		3%	R, E	15/03/2014	
Phthalates, selected	Various	Plasticizers, adhesives, sealants			E, ED, R	before 2006-02-01	15/03/2016
1,2-Benzenedicarboxylic acid, di-C6-10-alkyl esters	68515-51-5				R	15/03/2016	
Dicyclohexyl phtalate (DCHP)	84-61-7				ED, R	15/03/2016	
Diisoalkyl phthalate, C6-8 (DIHP), (1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich)	71888-89-6				ED, R	15/03/2015	
Dimethyl phthalate	131-11-3				E, ED, R		
Di-isononyl phthalate (DINP)	28553-12-0				R	15/03/2016	
Diisopentyl phthalate (DIPP)	605-50-5				E, ED, R		
Heptylundecyl phthalte, (1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters)	68515-42-4				ED, R		
Dipentyl phthalate	131-18-0				E, ED, R		
Propylene oxide	75-56-9	Intermediate in surface-active agents, cleaning agent			M, C	15/03/2014	
Terpenes and terpenoids, selected	Various	Solders, adhesives, sealants, solvents		0.1%	A, E	before 2006-02-01	15/03/2015
Colophony	73138-82-6				A	before 2006-02-01	
Rosin	8050-09-7				A	before 2006-02-01	
Rosin, tall oil	8052-10-6				A	before 2006-02-01	
Limonene	138-86-3				A, E	before 2006-02-01	
D-Limonene	5989-27-5				A, E	before 2006-02-01	
D-Limonene modified (Orange, sweet, ext.)	8028-48-6				A, E	15/03/2015	
Terpenes and terpenoids, limonene fraction	65996-98-7				A, E	15/03/2015	
Tert-butyl methyl ether (MTBE)	1634-04-4	Fuel additives			ED	15/03/2015	
1,1,1,2-tetrafluorethane (Norflurane, R134a)	811-97-2	Refrigerant, cooling agent			E	15/03/2016	
Toluene **2021-03-15**	108-88-3	Solvents		3%	R	before 2006-02-01	15/03/2017
Triclosan	3380-34-5	Antibacterial and antifungal agent			A, T, E	15/03/2013	
4,4'-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]diphenol	1478-61-1	Adhesives, sealants			ED	15/03/2016	
Tris(2-chloroethyl) phosphate	115-96-8	Flame retardants			C, E	15/03/2010	
Bisphenols	Various	Polymer content (PC and PUR)			A, ED, R	15/03/2013	15/03/2018

From Scania Grey list - Issue 37 9/3/18						
Triphenyl phosphate	115-86-6	Flame retardant			A, E	26/02/1998
Chloroform	67-66-3	Solvent			C, R	26/02/1998
Limonene	5989-54-8 6876-12-6 7705-14-8	Solvent			A, E	19/12/2005
Lead and lead compound	Several	Electrical products	All electric and electronic products containing more than 0,1g lead / assembly part must be labelled according to Scania STD3871		N, E	26/02/1998
Dioctylphtalate, DOP	117-84-0	Plasticizer			N, E	15/08/2002
Secondary amine	101-83-7	Additive			C	17/10/2012

From Komatsu Grey list - Dec 2012						
Selenium				0		
Chlorinated Flame Retardants (TLEP)				0		
Methanol				0		
DZ				0		

From Komatsu Grey list - Dec 2012						
BHST				0		

KAB // Seating Restricted Substances List KD 964-01 VERSION 15 June 2018

Atlas Copco

January 2018

In this document all individual substances included in Atlas Copco Prohibited and Declarable lists are provided. The information can be sorted by Family, Group or Substance, where:
– A Family is a group of substances with similar origin e.g. lead and lead compounds, Hydrofluorocarbons (HFC's) etc
– A Group contains substances with similar properties, e.g. ozon depleting substances, pesticides etc
– A Substance is a individual element or chemical compunds as parts of materials, products or chemicals

When the entry coveres a group all individual substances inlcluded in that entry are provided and are displayed when clicking on the plus-sign in the left margin.
Information on reason for inclusion to the list is given in the Table. Note that Regardless if the scope of the legal reference is limited to a product type or a region Atlas Copco has decided that all listed substances are prohibited in all products deliverd to and sold by the Group unless else is clearly exempted
Please not that in the short versions of Atlas Copco Prohibited list and Atlas Copco Declarable lists each entry can cover one single substance or a group of substances. If the entry covers a group of substances not all individual substances inlcuded are provided.

Complying with Atlas Copco Prohibited and Declarable lists
Atlas Copco maintains lists of substances that are either prohibited or restricted due to their potential negative impact on health or the environment. Compliance with these lists is part of the 10-point checklist for evaluating business partners. Substances of concern (SoC) are substances that may pose a

Distinction is made between Prohibited, Phase-out and Declarable substances:
– Prohibited substances must not be included unless clearly exempted in the list
– Phase-out substances will soon be included in Prohibited list and must be phased out
– Declarable substances must be reported

Compliance with Atlas Copco Prohibited list and correct declaration of Declarable substances is part of the 10-Criteria letter for suppliers.

Scope:
– Products sold by Atlas
– Items delivered to Atlas Copco by any business partners like suppliers, contractors, subcontractors, joint venture partners, agents etc.
– Production processes outsourced by Atlas Copco

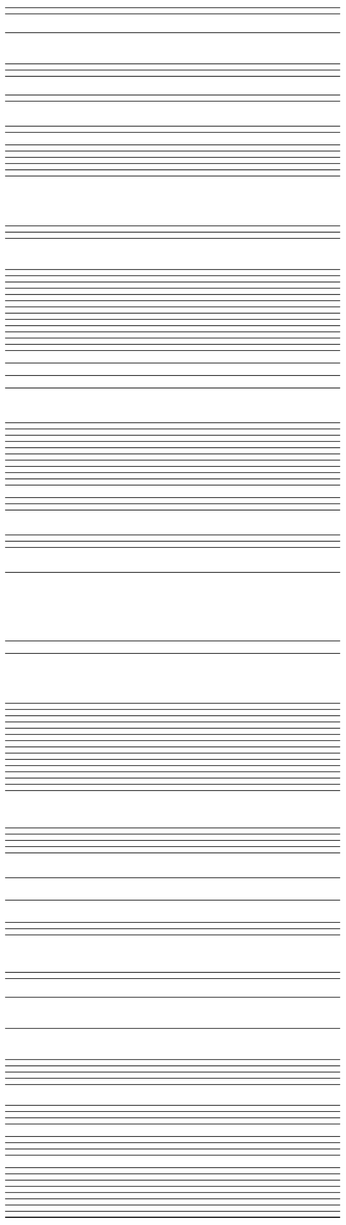
Business partners shall check for compliance using the lists (lined below) and take following actions:

	Prohibited substances	Phase-out substances	Declarable substances
Existing items	DO NOT USE	REPLACE	REPLACE AND REPORT
New items	DO NOT USE	DO NOT USE	AVOID AND REPORT

Family	Group	Substance	CAS	P	D	Concentration limits	Exempted uses	Comment	Authorization list	Candidate list	RoHS	Annex XVII	Annex XVII	Kyoto protocol (GWS)	Montreal protocol (ODS)	Stockholm convention (POPs)
Acrylamide		Acrylamide	79-06-1		D					yes						
4-Aminoazobenzen		4-Aminoazobenzen	60-09-3		D					yes						
o-Aminoazotoluene		o-Aminoazotoluene	97-56-3		D					yes						
4-Aminobiphenyl and its salts				P									yes			
[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26)		[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26)	2580-56-5		D					yes						
Arsenic and arsenic compounds, all				P	D		**Prohibition for use in treatment of industrial waters and use of wood treated by arsenic containing mixture. All other uses Declarable.**						yes			
Asbestos fibers, all				P								entry 6	yes			
Azocolourants and azodyes, selected				P									yes			
Benzene		Benzene	71-43-2	P			The prohibition does not include benzene in motor fuel					entry 5	yes			
Benzidine and its salts, all				P									yes			
Benzotriazoles, selected					D					yes						
[4-[4,4'-Bis(di-metylamino) benzhydrylidene]cyklohexa-2,5-dien-1-ylidene] dimetylammoniumchloride (C.I. Basic Violet 3)		[4-[4,4'-Bis(di-metylamino) benzhydrylidene]cyklohexa-2,5-dien-1-ylidene] dimetylammoniumchloride (C.I. Basic Violet 3)	548-62-9		D					yes						
4,4'-Bis(dimethylamino)benzophenone (Michel's base)		4,4'-Bis(dimethylamino)benzophenone (Michel's base)	90-94-8		D					yes						
4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol		4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol	561-41-1		D					yes						
α,α-Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4)		α,α-Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4)	6786-83-0		D					yes						
1,2-Bis(2-methoxyethoxy)ethane		1,2-Bis(2-methoxyethoxy)ethane	112-49-2		D					yes						
Bis(2-metoxietyl)eter (diglyme)		bis(2-metoxietyl)eter (diglyme)	111-96-6		D				yes	yes						
4,4'-isopropylidenediphenol (bisphenol A, BPA)		4,4'-isopropylidenediphenol (bisphenol A, BPA)	07/05/1980		D					yes						
Boron compounds, selected					D					yes						
1-Bromopropane (n-propyl bromide)		1-Bromopropane	106-94-5		D				yes	yes						
Cadmium and its compunds, all				P		**In EEE maximum concentration of 0.01% by weight in homogenous materials. For non-EEE products the maximum concentration of 0.01% refers to any article included in a product. Maximum concentration in batteries of 0.002% cadmium by weight of battery.**	**The prohibition does not cover use in electrical contacts**				yes		yes			
Chlorinated and brominated dibenzo-p-dioxines or dibenzofuranes, all				P												yes
Chlorofluorocarbons (CFCs), all	**Ozon depleting substances, all**			P											yes	
Chromium, hexavalent (CrVI) compounds, all				P		**In EEE maximum concentration of 0.1% by weight in homogenous materials. For non-EEE products the maximum concentration of 0.1% refers to any article included in a product.**	**The Prohibition does not cover use for anti-corrosion of carbon steel for cooling systems in absorption refrigerators**		yes	yes	yes					
Coal tar products, selected		Pitch, coal tar, high-temp., Pitch	65996-93-2		D				yes	yes						
Cobalt and cobalt compounds, selected					D					yes						
4,4'-Diaminodiphenylmethane (MDA)		4,4'-Diaminodiphenylmethane (MDA)	101-77-9		D				yes	yes		P i GADSL				
Diazene-1,2-dicarboxamide (C,C'-Azodi(formamide)) (ADCA)		Diazene-1,2-dicarboxamide (C,C'-Azodi(formamide)) (ADCA)	123-77-3		D					yes						
1,1-Dichloroethene		1,1-Dichloroethene	75-35-4	P								entry 38	yes			
1,2-Dichloroethane (EDC)		1,2-Dichloroethane (EDC)	107-06-2		D				yes	yes						
Dichloromethane		Dichloromethane	75-09-2	P								entry 59	yes			
2,2'-Dichloro-4,4'-methylenedianiline (MOCA)		2,2'-Dichloro-4,4'-methylenedianiline (MOCA)	101-14-4		D				yes	yes						
1,2-Diethoxyethane		1,2-Diethoxyethane	629-14-1		D					yes						
Diethyl sulphate		Diethyl sulphate	64-67-5		D					yes						
1,2-Dimethoxyethane, ethylene glycol dimethyl ether (EGDME)		1,2-Dimethoxyethane, ethylene glycol dimethyl ether (EGDME)	110-71-4		D					yes						
N,N-Dimethylacetamide		N,N-Dimethylacetamide	127-19-5		D					yes						
N,N-Dimethylformamide		N,N-Dimethylformamide	68-12-2		D					yes						
p-(1,1-dimethylpropyl)phenol		p-(1,1-dimethylpropyl)phenol	80-46-6		D					yes						
Dimethyl sulphate		Dimethyl sulphate	77-78-1		D					yes						
2,4-Dinitrotoluene		2,4-Dinitrotoluene	25321-14-6, 121-14-2		D				yes	yes						
Diorganotin compounds, all				p	D		**Prohibited for use as biocide all other uses are Declarable.**			yes			yes			
1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo[12.2.1.1^{6,9}.0^{2,13}.0^{5,10}]octadeca-7,15-diene ("Dechlorane Plus") [covering any of its individual anti- and syn-isomers or any combination thereof]		1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo[12.2.1.1^{6,9}.0^{2,13}.0^{5,10}]octadeca-7,15-diene ("Dechlorane Plus") [covering any of its individual anti- and syn-isomers or any combination thereof]	....		D					yes						
2-Ethoxyethanol		2-Ethoxyethanol	110-80-5		D					yes						
2-Ethoxyethyl acetate		2-Ethoxyethyl acetate	111-15-9		D					yes						
3-Ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine		3-Ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2		D					yes						
Formaldehyde, oligomeric reaction products with aniline		Formaldehyde, oligomeric reaction products with aniline	25214-70-4		D				yes	yes						
Formamide		Formamide	75-12-7		D					yes						
Furan		Furan	110-00-9		D					yes						
Halons, all	**Ozon depleting substances, all**			P											yes	
4-Heptylphenol, branched and linear		4-Heptylphenol, branched and linear			D					yes						
Hexabromocyclododecane (HBCD or HBCDD), all	**Brominated flame retardants, selected**			P					yes	yes						yes
Hexachlorocyclohexane (HCH), selected	**Pesticides, selected**			P												yes
Hydrazine		Hydrazine	302-01-2, 7803-57-8		D					yes						
Hydrobromofluorocarbons (HBFC's), all	**Ozon depleting substances, all**			P											yes	
Hydrochlorofluorocarbons (HCFC's), all	**Ozon Depleting substances, all**			P											yes	
Hydrofluorocarbons (HFC's), all	**Fluorinated Greenhouse gases**			P	D		**Substances with a global warming potential (GWP) above 2500 are prohibited Substances with a GWP below 2500 are declarable**							yes		
Imidazolidine-2-thione (2-imidazoline-2-thiol)		Imidazolidine-2-thione (2-imidazoline-2-thiol)	96-45-7		D					yes						
4,4'-Isopropylidenediphenol (bisphenol A, BPA)		4,4'-Isopropylidenediphenol (bisphenol A, BPA)	80-05-7		D					yes						
Karanal (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] [covering any of the individual stereoisomers of [1] and [2] or any combination thereof])		Karanal (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] [covering any of the individual stereoisomers of [1] and [2] or any combination thereof])	....		D					yes						
Lead and lead compounds, all				P		**The Prohibition does not include the use in bearing shells and bushes, high melting temperature solders, solders for servers and network equipment or electronic ceramic parts.**	**For EEE maximum concentration of 0.1% by weight in homogenous materials. Steel alloy may contain up to 0.35% lead. Aluminium alloy may contain up to 0.4 % lead. Copper alloy may contain up to 4% lead. For non-EEE products the maximum concentration of 0.1% refers to any article included in a product.**		yes	yes	yes		yes			
Medium chained Chloro Paraffines (MCCP)		Chlorinated paraffins, C14 - 17 (Medium chained chloro parrafines, MCCP)	85535-85-9		D											
Mercury and mercury compounds, all				P		**Use in some lamps for special purposes are exempted (2011/65/EU)**	**For EEE maximum concentration of 0.1% by weight in homogenous materials. Other batteries may contain no more than 0.0005% mercury. For non-EEE products the maximum xoncentration of 0.1% refers to any article included in a product.**				yes					
Methoxyacetic acid		Methoxyacetic acid	625-45-6		D					yes						
2-Methoxyaniline (o-anisidine)		2-Methoxyaniline (o-anisidine)	90-04-0		D					yes						
2-Methoxyethanol		2-Methoxyethanol	109-86-4		D					yes						
6-Methoxy-m-toluidine (p-cresidine)		6-Methoxy-m-toluidine (p-cresidine)	120-71-8		D					yes						
N-Methylacetamide		N-methylacetamide	79-16-3		D					yes						
4,4'-Methylenedi-o-toluidine		4,4'-Methylenedi-o-toluidine	838-88-0		D					yes						
Methyloxiran (propylene oxide)		Methyloxiran (prpoylene oxide)	75-56-9		D					yes						
4-Methyl-m-phenylenediamine (toluene-2,4-diamine)		4-Methyl-m-phenylenediamine (toluene-2,4-diamine)	95-80-7		D					yes						
1-Methyl-2-pyrrolidone (NMP)		1-Methyl-2-pyrrolidone (NMP)	872-50-4		D					yes						
Musk xylene		Musk xylene (5-Tert-butyl-2,4,6-trinitro-m-xylen)	81-15-2		D				yes	yes						
Halogenated diphenylmethanes, selected				P									yes			
2-Naphtylamine and its salts				P									yes			
Nitrobenzene		Nitrobenzene	98-95-3		D					yes						
4-nitrobiphenyl and its salts		4-Nitrobiphenyl	92-93-3	P								entry 14	yes			
Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts		Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts			D					yes						
Nonadecafluorodecanoic acid		Nonadecafluorodecanoic acid	335-76-2		D					yes						
Decanoic acid, nonadecafluoro-, sodium salt		Decanoic acid, nonadecafluoro-, sodium salt	3830-45-3		D					yes						
Ammonium nonadecafluorodecanoate		Ammonium nonadecafluorodecanoate	3108-42-7		D					yes						
Nonylphenol and nonylphenolethoxylate, selected				P						yes			yes			
4,4'-Oxydianiline and its salts		4,4'-Oxydianiline and its salts	101-80-4		D					yes						
Pentachloroethane		Pentachloroethane	76-01-7	P								entry 37	yes			
Pentachlorphenol (PCP) and its salts and esters, all	Pesticides, selected	Pentachlorphenol (PCP) and its salts and esters, all	87-86-5	P								entry 22	yes			
Perfluorinated alkylcarboxylic acids (PFOA), selected		**Perfluorinated alkylcarboxylic acids (PFOA), selected**			D					yes			yes			
Perfluorocarbons (PFCs), all	**Fluorinated greenhouse gases**			P		**Substances with a global warming potential (GWP) above 2500 are prohibited Substances with a GWP below 2500 are declarable**								yes		
Perfluorononan-1-oic-acid and its sodium and ammonium salts (PFNA)		Perfluorononan-1-oic-acid and its sodium and ammonium salts (PFNA)			D					yes						
Perfluorohexane-1-sulphonic acid (PFHxS) and its salts		**Perfluorohexane-1-sulphonic acid (PFHxS) and its salts**			D					yes						
Ammonium salts of perfluorononan-1-oic-acid		Ammonium salts of perfluorononan-1-oic-acid	4149-60-4		D											
Perfluorooctane sulfonates (PFOS), all				P												yes
	Pesticides, selected			P	D					yes						yes
Phenolphthalein		Phenolphthalein	77-09-8		D					yes						
Phthalates, selected				P	D	**Prohibited Phthalates: For EEE maximum concentration of 0.1% by weight in homogenous material. For non-EEE products maximum concentration of 0.1% refers to any article included in a product.**			yes	yes	yes					
Phtalic anhydrids, selected					D					yes						
Polyaromatic hydrocarbons (PAH), selected				P	D	**Extender oils used may not contain more than 1 ppm Benzo(a)pyrene (BaP) nor may the sum of the listed prohibited PAHs exeed 10 ppm.**				yes		yes	yes			
Polybrominated biphenyls (PBB), all	**Brominated flame retardants, selected**			P		**For EEE maximum concentration of 0.1% by weight in homogenous material. For non-EEE products maximum concentration of 0.1% refers to any article included in a product.**					yes					yes
Polybrominated diphenyl ethers (PBDE), all	**Brominated flame retardants, selected**			P		**For EEE maximum concentration of 0.1% by weight in homogenous material. For non-EEE products maximum concentration of 0.1% refers to any article included in a product.**				yes	yes		yes			yes
Polychlorinated biphenyls (PCBs), all				P												yes
Polyclorinated naphtalenes (PCN), all				P												**suggested for inclution**
Polychlorinated terphenyl (PCTs), all		Polychlorinated terphenyl (PCT)	61788-33-8	P								entry 1	yes			
1,3-Propanesultone		1,3-Propanesultone	1120-71-4		D					yes						
Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) [with ≥0.1 % w/w 4-heptylphenol, branched and linear]			....		D					yes						
Refractory ceramic fibres (RFC), selected					D					yes						
Short chain chlorinated parrafine (SCCP)		Alkanes, C10-13, chloro (Short Chain Clorinated Parrafine, SCCP)	85535-84-8	P						yes						suggested for inclution
	Fluorinated greenhouse gases	Sulphur hexafluoride	2551-62-4	P				GWP 22800						yes		
Tetrachloroethane, all		**Tetrachloroethane, all**		P									yes			
4-(1,1,3,3-Tetramethylbuthyl)phenol		4-(1,1,3,3-Tetramethylbuthyl)phenol	140-66-9		D					yes						
4-(1,1,3,3-Tetramethylbuthyl)phenol, ethoxylated		4-(1,1,3,3-Tetramethylbuthyl)phenol, ethoxylated	...		D				yes	yes						
N,N,N',N'-tetramethyl-4,4'-methylendianiline (Michler's base)		N,N,N',N'-tetramethyl-4,4'-methylendianiline (Michler's base)	101-61-1		D					yes						
o-Toluidine		o-Toluidine	95-53-4		D					yes						
Trichlorobenzene		Trichlorobenzene	120-82-1	P								entry 49	yes			
Trichloroethane (all isomers)				P									yes		yes	
Trichloroethylene (TCE)		Trichloroethylene (TCE)	79-01-6		D				yes	yes						
Trichloromethane (chloroform)		Trichloromethane (chloroform)	67-66-3	P								entry 32	yes			
1,2,3-Trichloropropane		1,2,3-Trichloropropane	96-18-4		D					yes						
Triglycidylisocyanurate (TGIC)					D					yes						
Triorganotin substances, all				P						yes			yes			
Tris(2-chloroethyl) phosphate (TCEP)		Tris(2-chloroethyl) phosphate (TCEP)	115-96-8		D				yes	yes						
Trixylyl phosphate		Trixylyl phosphate	25155-23-1		D					yes						
Vinyl chloide (Chloroethylene)		Vinyl chloide (Chloroethylene)	75-01-4	P								entry 2	yes			

Updates 19.6.2018

Family	Group	Substance	CAS	P	D	Change from previous list	Concentration limits	Exempted uses	Comment	Authorization list	Candidate list	RoHS	Annex XVII	Annex XVII	Kyoto protocol (GWS)	Montreal protocol (ODS)	Stockholm convention (POPs)
Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts		**Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts**			D	**Added to Candidate list**					yes						
Nonadecafluorodecanoic acid		Nonadecafluorodecanoic acid	335-76-2		D						yes						
Decanoic acid, nonadecafluoro-, sodium salt		Decanoic acid, nonadecafluoro-, sodium salt	3830-45-3		D						yes						
Ammonium nonadecafluorodecanoate		Ammonium nonadecafluorodecanoate	3108-42-7		D						yes						
Perfluorinated alkylcarboxylic acids (PFOA) and its salts		**Perfluorinated alkylcarboxylic acids (PFOA), selected**			D	**Included in Phase-out list to be prioritized for substitution. To be inlcuded in Prohibited list Jan 2019**					yes			yes			
Perfluorinated alkylcarboxylic acids (PFOA), selected		Pentacosafluorotridecanoic acid	72629-94-8		D						yes			entry 68			
Perfluorinated alkylcarboxylic acids (PFOA), selected		Henicosafluoroundecanoic acid	2058-94-8		D						yes			entry 68			
Perfluorinated alkylcarboxylic acids (PFOA), selected		Tricosafluorododecanoic acid	307-55-1		D						yes			entry 68			
Perfluorinated alkylcarboxylic acids (PFOA), selected		Penadecatfluorooctanic acid (PFOA)	335-67-1		D						yes			entry 68			
Perfluorinated alkylcarboxylic acids (PFOA), selected		Heptacosafluorotetradecanoic acid	376-06-7		D						yes			entry 68			
Perfluorinated alkylcarboxylic acids (PFOA), selected		Ammonium pentadecafluorooctanoate (APFO)	3825-26-1		D						yes			entry 68			
Perfluorononan-1-oic-acid and its sodium and ammonium salts (PFNA)		**Perfluorononan-1-oic-acid and its sodium and ammonium salts (PFNA)**			D						yes						
Perfluorohexane-1-sulphonic acid (PFHxS) and its salts		**Perfluorohexane-1-sulphonic acid (PFHxS) and its salts**			D	**added to Candidate list**					yes						
Perfluorononan-1-oic-acid		Perfluorononan-1-oic-acid	375-95-1		D						yes						
Sodium salts of pefluorononan-1-oic-acid		Sodium salts of pefluorononan-1-oic-acid	21049-39-8		D						yes						
Ammonium salts of perfluorononan-1-oic-acid		Ammonium salts of perfluorononan-1-oic-acid	4149-60-4		D						yes						
Phtalates, selected		**Phtalates, selected**		P		**Moved from Phase-out list to Prohibited list**											
Phthalates, selected		Benzyl butyl phthalate (BBP)	85-68-7	P						yes	yes	**yes**					
Phthalates, selected		Bis(2-ehtylhexyl) phthalate (DEHP)	117-81-7	P						yes	yes	**yes**					
Phthalates, selected		Diisobutyl phthalate (DiBP)	84-69-5	P						yes	yes	**yes**					
Phthalates, selected		Di-n-butyl Phthalate (DBP)	84-74-2	P						yes	yes	**yes**					
4,4'-isopropylidenediphenol (bisphenol A, BPA)			80-05-7		D	newly SVHC property added to entry in Candidate list					yes						
Polyaromatic hydrocarbons (PAH), selected		Chrysene	218-01-9	P		added to Candidate list, such legal reference added in list					yes		yes	entry 50			
Polyaromatic hydrocarbons (PAH), selected		Benz[a]antracene	56-55-3	P		added to Candidate list, such legal reference added in list					yes		yes	entry 50			
Cadmium and cadmium compounds		Cadmium nitrate	10325-94-7	P		added to Candidate list, such legal reference added in list					yes	yes					
Cadmium and cadmium compounds		Cadmium hydroxide	21041-95-2	P		added to Candidate list, such legal reference added in list					yes	yes					
Cadmium and cadmium compounds		Cadmium carbonate	513-78-0	P		added to Candidate list, such legal reference added in list					yes	yes					
1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo[12.2.1.1^{6,9}.0^{2,13}.0^{5,10}]octadeca-7,15-diene ("Dechlorane Plus") [covering any of its individual anti- and syn-isomers or any combination thereof]			....		D	added to Candidate list					yes						
Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) [with ≥0.1 % w/w 4-heptylphenol, branched and linear]			.....		D	added to Candidate list					yes						



STATE OF CALIFORNIA
ENVIRONMENTAL PROTECTION AGENCY
OFFICE OF ENVIRONMENTAL HEALTH HAZARD ASSESSMENT
SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT OF 1986

CHEMICALS KNOWN TO THE STATE TO CAUSE CANCER OR REPRODUCTIVE TOXICITY
25-May-18

The Safe Drinking Water and Toxic Enforcement Act of 1986 requires that the Governor revise and
In the Listing Mechanism column, "AB" denotes authoritative bodies, "SQE" denotes State's Qualified

Chemical	Type of Toxicity	Listing Mechanism	CAS No.	Date Listed	NSRL or MADL (µg/day)[a]
A-alpha-C (2-Amino-9H-pyrido[2,3-b]indole)	cancer	AB	26148-68-5	01-Jan-90	2
Abiraterone acetate	developmental, female, male	FR	154229-18-2	08-Apr-16	
Acetaldehyde	cancer	SQE	75-07-0	01-Apr-88	90 (inhalation)
Acetamide	cancer	AB	60-35-5	01-Jan-90	10
Acetazolamide	developmental	FR	59-66-5	20-Aug-99	
Acetochlor	cancer	SQE	34256-82-1	01-Jan-89	
Acetohydroxamic acid	developmental	FR	546-88-3	01-Apr-90	
2-Acetylaminofluorene	cancer	SQE	53-96-3	01-Jul-87	0.2
Acifluorfen sodium	cancer	AB	62476-59-9	01-Jan-90	
Acrylamide	cancer	AB	79-06-1	01-Jan-90	0.2
Acrylamide	developmental, male	AB	79-06-1	25-Feb-11	140
Acrylonitrile	cancer	FR	107-13-1	01-Jul-87	0.7
Actinomycin D [Basis for listing changed effective February 22, 2013]	cancer	FR	50-76-0	01-Oct-89	0.00008
Actinomycin D	developmental	FR	50-76-0	01-Oct-92	
AF-2;[2-(2-furyl)-3-(5-nitro-2-furyl)]acrylamide	cancer	SQE	3688-53-7	01-Jul-87	3
Aflatoxins	cancer	SQE	---	01-Jan-88	
Alachlor	cancer	SQE	15972-60-8	01-Jan-89	
Alcoholic beverages, when associated with alcohol abuse	cancer	SQE	---	01-Jul-88	
Aldrin	cancer	SQE	309-00-2	01-Jul-88	0.04
All-trans retinoic acid	developmental	SQE	302-79-4	01-Jan-89	
Allyl chloride Delisted October 29, 1999 [Click here for the basis for delisting]	~~cancer~~	~~AB~~	~~107-05-1~~	~~01-Jan-90~~	
Aloe Vera, non-decolorized whole leaf extract	cancer	LC	---	04-Dec-15	
Alprazolam	developmental	FR	28981-97-7	01-Jul-90	
Altretamine	developmental, male	FR	645-05-6	20-Aug-99	
Amantadine hydrochloride	developmental	FR	665-66-7	27-Feb-01	
Amikacin sulfate	developmental	FR	39831-55-5	01-Jul-90	
2-Aminoanthraquinone	cancer	LC	117-79-3	01-Oct-89	20
p-Aminoazobenzene	cancer	AB	60-09-3	01-Jan-90	

Chemical	Type of Toxicity	Listing Mechanism	CAS No.	Date Listed	NSRL or MADL (µg/day)[a]
o-Aminoazotoluene	cancer	SQE	97-56-3	01-Jul-87	0.2
4-Aminobiphenyl (4-aminodiphenyl)	cancer	LC	92-67-1	27-Feb-87	0.03
1-Amino-2,4-dibromoanthraquinone	cancer	AB	81-49-2	26-Aug-97	
3-Amino-9-ethylcarbazole hydrochloride	cancer	SQE	6109-97-3	01-Jul-89	9
2-Aminofluorene	cancer	SQE	153-78-6	29-Jan-99	
Aminoglutethimide	developmental	FR	125-84-8	01-Jul-90	
Aminoglycosides	developmental	FR	---	01-Oct-92	
1-Amino-2-methylanthraquinone	cancer	LC	82-28-0	01-Oct-89	5
2-Amino-5-(5-nitro-2-furyl)-1,3,4-thiadiazole	cancer	SQE	712-68-5	01-Jul-87	0.04
4-Amino-2-nitrophenol	cancer	SQE	119-34-6	29-Jan-99	
Aminopterin	developmental, female	SQE	54-62-6	01-Jul-87	
Amiodarone hydrochloride	developmental, female, male	FR	19774-82-4	26-Aug-97	
Amitraz	developmental	AB	33089-61-1	30-Mar-99	
Amitrole	cancer	SQE	61-82-5	01-Jul-87	0.7
Amoxapine	developmental	FR	14028-44-5	15-May-98	
Amsacrine	cancer	LC	51264-14-3	07-Aug-09	
tert-Amyl methyl ether Delisted December 13, 2013 [Click here for the basis for delisting]	~~developmental~~	~~LC~~	~~994-05-8~~	~~18-Dec-09~~	
Anabolic steroids	female, male	FR	---	01-Apr-90	
Analgesic mixtures containing Phenacetin	cancer	LC	---	27-Feb-87	
Androstenedione	cancer	AB	63-05-8	03-May-11	
Angiotensin converting enzyme (ACE) inhibitors	developmental	FR	---	01-Oct-92	
Aniline	cancer	AB	62-53-3	01-Jan-90	100
Aniline hydrochloride	cancer	AB	142-04-1	15-May-98	
o-Anisidine	cancer	SQE	90-04-0	01-Jul-87	5
o-Anisidine hydrochloride	cancer	SQE	134-29-2	01-Jul-87	7
Anisindione	developmental	FR	117-37-3	01-Oct-92	
Anthraquinone	cancer	AB	84-65-1	28-Sep-07	
Antimony oxide (Antimony trioxide)	cancer	AB	1309-64-4	01-Oct-90	
Aramite	cancer	SQE	140-57-8	01-Jul-87	20
Areca nut	cancer	LC	---	03-Feb-06	
Aristolochic acids	cancer	LC	---	09-Jul-04	
Arsenic (inorganic arsenic compounds)	cancer	LC	--	27-Feb-87	0.06 (inhalation) 10 (except inhalation)
Arsenic (inorganic oxides)	developmental	SQE	---	01-May-97	
Asbestos	cancer	LC	1332-21-4	27-Feb-87	100 fibers/day (inhalation)

Chemical	Type of Toxicity	Listing Mechanism	CAS No.	Date Listed	NSRL or MADL (µg/day)[a]
Aspirin (NOTE: It is especially important not to use aspirin during the last three months of pregnancy, unless specifically directed to do so by a physician because it may cause problems in the unborn child or complications during delivery.)	developmental, female	SQE	50-78-2	01-Jul-90	
Atenolol	developmental	FR	29122-68-7	26-Aug-97	
Atrazine	developmental, female	AB	1912-24-9	15-Jul-16	100 (oral)
Auramine	cancer	SQE	492-80-8	01-Jul-87	0.8
Auranofin	developmental	FR	34031-32-8	29-Jan-99	
Avermectin B1 (Abamectin)	developmental	AB	71751-41-2	03-Dec-10	4.4
Azacitidine	cancer	AB	320-67-2	01-Jan-92	
Azaserine	cancer	SQE	115-02-6	01-Jul-87	0.06
Azathioprine	cancer	LC	446-86-6	27-Feb-87	0.4
Azathioprine	developmental	FR	446-86-6	01-Sep-96	
Azobenzene	cancer	AB	103-33-3	01-Jan-90	6
Barbiturates	developmental	FR	---	01-Oct-92	
Beclomethasone dipropionate	developmental	FR	5534-09-8	15-May-98	
Benomyl	developmental, male	SQE	17804-35-2	01-Jul-91	
Benthiavalicarb-isopropyl	cancer	AB	177406-68-7	01-Jul-08	
Benz[a]anthracene	cancer	SQE	56-55-3	01-Jul-87	0.033 (oral)
Benzene	cancer	LC	71-43-2	27-Feb-87	6.4 (oral) 13 (inhalation)
Benzene	developmental, male	SQE	71-43-2	26-Dec-97	24 (oral) 49 (inhalation)
Benzidine [and its salts]	cancer	LC	92-87-5	27-Feb-87	0.001
Benzidine-based dyes	cancer	FR	---	01-Oct-92	
Benzodiazepines	developmental	FR	---	01-Oct-92	
Benzo[b]fluoranthene	cancer	SQE	205-99-2	01-Jul-87	0.096 (oral)
Benzo[j]fluoranthene	cancer	SQE	205-82-3	01-Jul-87	0.11 (oral)
Benzo[k]fluoranthene	cancer	SQE	207-08-9	01-Jul-87	
Benzofuran	cancer	AB	271-89-6	01-Oct-90	1.1
Benzophenone	cancer	LC	119-61-9	22-Jun-12	
Benzo[a]pyrene	cancer	SQE	50-32-8	01-Jul-87	0.06
Benzotrichloride	cancer	SQE	98-07-7	01-Jul-87	
Benzphetamine hydrochloride	developmental	FR	5411-22-3	01-Apr-90	
Benzyl chloride	cancer	AB	100-44-7	01-Jan-90	4
Benzyl violet 4B	cancer	SQE	1694-09-3	01-Jul-87	30
Beryllium and beryllium compounds	cancer	SQE	---	01-Oct-87	
Beryllium					0.1
Beryllium oxide					0.1
Beryllium sulfate					0.0002
Betel quid with tobacco	cancer	AB	---	01-Jan-90	
Betel quid without tobacco	cancer	LC	---	03-Feb-06	
2,2-Bis(bromomethyl)-1,3-propanediol	cancer	AB	3296-90-0	01-May-96	
Bis(2-chloroethyl)ether	cancer	SQE	111-44-4	01-Apr-88	0.3

Chemical	Type of Toxicity	Listing Mechanism	CAS No.	Date Listed	NSRL or MADL (µg/day)[a]
N,N-Bis(2-chloroethyl)-2-naphthylamine (Chlornapazine)	cancer	LC	494-03-1	27-Feb-87	
Bischloroethyl nitrosourea (BCNU) (Carmustine)	cancer	SQE	154-93-8	01-Jul-87	
Bischloroethyl nitrosourea (BCNU) (Carmustine)	developmental	FR	154-93-8	01-Jul-90	
Bis(chloromethyl)ether	cancer	LC	542-88-1	27-Feb-87	0.02
Bis(2-chloro-1-methylethyl)ether, technical grade	cancer	SQE	---	29-Oct-99	
Bisphenol A (BPA)	female	SQE	80-05-7	11-May-15	3 (dermal exposure from solid materials)
Bisphenol A (BPA) Delisted April 19, 2013 [Click here for the basis for delisting]	~~developmental~~	~~AB~~	~~80-05-7~~	~~11-Apr-13~~	
Bitumens, extracts of steam-refined and air refined	cancer	AB	---	01-Jan-90	
Bracken fern	cancer	AB	---	01-Jan-90	
Bromacil lithium salt	developmental	AB	53404-19-6	18-May-99	
Bromacil lithium salt	male	SQE	53404-19-6	17-Jan-03	
Bromate	cancer	AB	15541-45-4	31-May-02	
Bromochloroacetic acid	cancer	AB	5589-96-8	06-Apr-10	
Bromodichloroacetic acid	cancer	AB	71133-14-7	29-Jul-16	
Bromodichloromethane	cancer	AB	75-27-4	01-Jan-90	5
Bromoethane	cancer	AB	74-96-4	22-Dec-00	96
Bromoform	cancer	AB	75-25-2	01-Apr-91	64
1-Bromopropane (1-BP)	cancer	AB	106-94-5	05-Aug-16	
1-Bromopropane (1-BP)	developmental, female, male	AB	106-94-5	07-Dec-04	
2-Bromopropane (2-BP)	female, male	AB	75-26-3	31-May-05	
Bromoxynil	developmental	FR	1689-84-5	01-Oct-90	
Bromoxynil octanoate	developmental	AB	1689-99-2	18-May-99	
Butabarbital sodium	developmental	FR	143-81-7	01-Oct-92	
1,3-Butadiene	cancer	SQE	106-99-0	01-Apr-88	0.4
1,3-Butadiene	developmental, female, male	AB	106-99-0	16-Apr-04	
1,4-Butanediol dimethanesulfonate (Busulfan)	cancer	LC	55-98-1	27-Feb-87	
1,4-Butanediol dimethanesulfonate (Busulfan)	developmental	SQE	55-98-1	01-Jan-89	
Butylated hydroxyanisole	cancer	AB	25013-16-5	01-Jan-90	4000
Butyl benzyl phthalate (BBP)[d]	developmental	AB	85-68-7	02-Dec-05	1200 (oral)
n-Butyl glycidyl ether Delisted April 4, 2014 [Click here for the basis for delisting]	~~male~~	~~LC~~	~~2426-08-6~~	~~07-Aug-09~~	
beta-Butyrolactone	cancer	SQE	3068-88-0	01-Jul-87	0.7
Cacodylic acid	cancer	AB	75-60-5	01-May-96	
Cadmium	developmental, male	SQE	---	01-May-97	4.1 (oral)
Cadmium and cadmium compounds	cancer	SQE	---	01-Oct-87	

Chemical	Type of Toxicity	Listing Mechanism	CAS No.	Date Listed	NSRL or MADL (µg/day)[a]
Cadmium					0.05 (inhalation)
Caffeic acid	cancer	AB	331-39-5	01-Oct-94	
Captafol	cancer	SQE	2425-06-1	01-Oct-88	5
Captan	cancer	AB	133-06-2	01-Jan-90	300
Carbamazepine	developmental	FR	298-46-4	29-Jan-99	
Carbaryl	cancer	AB	63-25-2	05-Feb-10	
Carbaryl [Basis for listing changed effective December 27, 2013]	developmental, female, male	AB	63-25-2	07-Aug-09	
Carbazole	cancer	AB	86-74-8	01-May-96	4.1
Carbon black (airborne, unbound particles of respirable size)	cancer	AB	1333-86-4	21-Feb-03	
Carbon-black extracts	cancer	AB	---	01-Jan-90	
Carbon disulfide	developmental, female, male	SQE	75-15-0	01-Jul-89	
Carbon monoxide	developmental	SQE	630-08-0	01-Jul-89	
Carbon tetrachloride	cancer	SQE	56-23-5	01-Oct-87	5
Carboplatin	developmental	FR	41575-94-4	01-Jul-90	
N-Carboxymethyl-N-nitrosourea	cancer	SQE	60391-92-6	25-Jan-02	0.7
Catechol	cancer	AB	120-80-9	15-Jul-03	
Ceramic fibers (airborne particles of respirable size)	cancer	AB	---	01-Jul-90	
Certain combined chemotherapy for lymphomas	cancer	LC	---	27-Feb-87	
Chenodiol	developmental	FR	474-25-9	01-Apr-90	
Chloral	cancer	LC	75-87-6	13-Sep-13	
Chloral hydrate	cancer	LC	302-17-0	13-Sep-13	
Chlorambucil	cancer	LC	305-03-3	27-Feb-87	0.002
Chlorambucil	developmental	SQE	305-03-3	01-Jan-89	
Chloramphenicol Delisted January 4, 2013 [Click here for the basis for delisting]	~~cancer~~	~~LC~~	~~56-75-7~~	~~01-Oct-89~~	
Chloramphenicol sodium succinate	cancer	FR	982-57-0	27-Sep-13	
Chlorcyclizine hydrochloride	developmental	FR	1620-21-9	01-Jul-87	
Chlordane	cancer	SQE	57-74-9	01-Jul-88	0.5
Chlordecone (Kepone)	cancer	SQE	143-50-0	01-Jan-88	0.04
Chlordecone (Kepone)	developmental	SQE	143-50-0	01-Jan-89	
Chlordiazepoxide	developmental	FR	58-25-3	01-Jan-92	
Chlordiazepoxide hydrochloride	developmental	FR	438-41-5	01-Jan-92	
Chlordimeform	cancer	SQE	6164-98-3	01-Jan-89	
Chlorendic acid	cancer	SQE	115-28-6	01-Jul-89	8
Chlorinated paraffins (Average chain length, C12;approximately 60 percent chlorine by weight)	cancer	SQE	108171-26-2	01-Jul-89	8
p-Chloroaniline	cancer	AB	106-47-8	01-Oct-94	1.5
p-Chloroaniline hydrochloride	cancer	AB	20265-96-7	15-May-98	1.9
Chlorodibromomethane Delisted October 29, 1999 [Click here for the basis for delisting]	~~cancer~~	~~AB~~	~~124-48-1~~	~~01-Jan-90~~	
Chloroethane (Ethyl chloride)	cancer	AB	75-00-3	01-Jul-90	150
1-(2-Chloroethyl)-3-cyclohexyl-1-nitrosourea (CCNU) (Lomustine)	cancer	SQE	13010-47-4	01-Jan-88	

Chemical	Type of Toxicity	Listing Mechanism	CAS No.	Date Listed	NSRL or MADL (µg/day)[a]
1-(2-Chloroethyl)-3-cyclohexyl-1-nitrosourea (CCNU) (Lomustine)	developmental	FR	13010-47-4	01-Jul-90	
1-(2-Chloroethyl)-3-(4-methylcyclohexyl)-1-nitrosourea (Methyl-CCNU)	cancer	SQE	13909-09-6	01-Oct-88	
Chloroform	cancer	SQE	67-66-3	01-Oct-87	20 (oral) 40 (inhalation)
Chloroform [Basis for listing changed effective December 23, 2016]	developmental	SQE	67-66-3	07-Aug-09	
Chloromethyl methyl ether (technical grade)	cancer	LC	107-30-2	27-Feb-87	0.3
3-Chloro-2-methylpropene	cancer	SQE	563-47-3	01-Jul-89	5
1-Chloro-4-nitrobenzene	cancer	SQE	100-00-5	29-Oct-99	
4-Chloro-*o*-phenylenediamine	cancer	SQE	95-83-0	01-Jan-88	40
Chloroprene	cancer	AB	126-99-8	02-Jun-00	
2-Chloropropionic acid [Basis for listing changed effective December 20, 2013]	male	SQE	598-78-7	07-Aug-09	
Chlorothalonil	cancer	SQE	1897-45-6	01-Jan-89	41
p-Chloro-*o*-toluidine	cancer	AB	95-69-2	01-Jan-90	3
p-Chloro-*o*-toluidine, strong acid salts of	cancer	AB	---	15-May-98	
p-Chloro-*o*-toluidine, hydrochloride					3.3
5-Chloro-*o*-toluidine and its strong acid salts	cancer	SQE	---	24-Oct-97	
Chlorotrianisene	cancer	FR	569-57-3	01-Sep-96	
Chlorozotocin	cancer	AB	54749-90-5	01-Jan-92	0.003
Chlorpyrifos	developmental	SQE	2921-88-2	15-Dec-17	
Chlorsulfuron Delisted June 6, 2014 [Click here for the basis for delisting]	~~developmental, female, male~~	~~AB~~	~~64902-72-3~~	~~14-May-99~~	
Chromium (hexavalent compounds)	cancer	LC	---	27-Feb-87	0.001 (inhalation)
Chromium (hexavalent compounds)	developmental, female, male	SQE	---	19-Dec-08	8.2 (oral)
Chrysene	cancer	AB	218-01-9	01-Jan-90	0.35 (oral)
C.I. Acid Red 114	cancer	AB	6459-94-5	01-Jul-92	
C.I. Basic Red 9 monohydrochloride	cancer	SQE	569-61-9	01-Jul-89	3
C.I. Direct Blue 15	cancer	AB	2429-74-5	26-Aug-97	
C.I. Direct Blue 218	cancer	AB	28407-37-6	26-Aug-97	50
C.I. Disperse Yellow 3	cancer	SQE	2832-40-8	08-Feb-13	
C.I. Solvent Yellow 14	cancer	AB	842-07-9	15-May-98	
Ciclosporin (Cyclosporin A; Cyclosporine)	cancer	AB	59865-13-3; 79217-60-0	01-Jan-92	
Cidofovir	cancer, developmental, female, male	FR	113852-37-2	29-Jan-99	
Cinnamyl anthranilate	cancer	SQE	87-29-6	01-Jul-89	200
Cisplatin	cancer	SQE	15663-27-1	01-Oct-88	
Citrus Red No. 2	cancer	LC	6358-53-8	01-Oct-89	
Cladribine	developmental	FR	4291-63-8	01-Sep-96	

Chemical	Type of Toxicity	Listing Mechanism	CAS No.	Date Listed	NSRL or MADL (µg/day)[a]
Clarithromycin	developmental	FR	81103-11-9	01-May-97	
Clobetasol propionate	developmental, female	FR	25122-46-7	15-May-98	
Clofibrate	cancer	FR	637-07-0	01-Sep-96	
Clomiphene citrate	cancer	FR	50-41-9	24-May-13	
Clomiphene citrate	developmental	FR	50-41-9	01-Apr-90	
Clorazepate dipotassium	developmental	FR	57109-90-7	01-Oct-92	
CMNP (pyrazachlor)	cancer	AB	6814-58-0	25-Aug-15	
Cobalt metal powder	cancer	AB	7440-48-4	01-Jul-92	
Cobalt [II] oxide	cancer	AB	1307-96-6	01-Jul-92	
Cobalt sulfate	cancer	LC	10124-43-3	20-May-05	
Cobalt sulfate heptahydrate	cancer	AB	10026-24-1	02-Jun-00	
Cocaine	developmental, female	SQE	50-36-2	01-Jul-89	
Coconut oil diethanolamine condensate (cocamide diethanolamine)	cancer	LC	---	22-Jun-12	
Codeine phosphate	developmental	FR	52-28-8	15-May-98	
Coke oven emissions	cancer	LC	---	27-Feb-87	0.3
Colchicine	developmental, male	FR	64-86-8	01-Oct-92	
Conjugated estrogens	cancer	LC	---	27-Feb-87	
Conjugated estrogens	developmental	FR	---	01-Apr-90	
Creosotes	cancer	SQE	---	01-Oct-88	
p-Cresidine	cancer	SQE	120-71-8	01-Jan-88	5
Cumene	cancer	AB	98-82-8	06-Apr-10	
Cupferron	cancer	SQE	135-20-6	01-Jan-88	3
Cyanazine	developmental	FR	21725-46-2	01-Apr-90	
Cycasin	cancer	SQE	14901-08-7	01-Jan-88	
Cycloate	developmental	AB	1134-23-2	19-Mar-99	
Cyclohexanol Delisted January 25, 2002 [Click here for the basis for delisting]	~~male~~	~~AB~~	~~108-93-0~~	~~06-Nov-98~~	
Cycloheximide	developmental	FR	66-81-9	01-Jan-89	
Cyclopenta[cd]pyrene	cancer	LC	27208-37-3	29-Apr-11	
Cyclophosphamide (anhydrous)	cancer	LC	50-18-0	27-Feb-87	1
Cyclophosphamide (anhydrous)	developmental, female, male	SQE - developmental FR - female, male	50-18-0	01-Jan-89	
Cyclophosphamide (hydrated)	cancer	LC	6055-19-2	27-Feb-87	1
Cyclophosphamide (hydrated)	developmental, female, male	SQE - developmental FR - female, male	6055-19-2	01-Jan-89	
Cyhexatin	developmental	FR	13121-70-5	01-Jan-89	
Cytarabine	developmental	SQE	147-94-4	01-Jan-89	
Cytembena	cancer	AB	21739-91-3	15-May-98	
D&C Orange No. 17	cancer	AB	3468-63-1	01-Jul-90	
D&C Red No. 8	cancer	AB	2092-56-0	01-Oct-90	
D&C Red No. 9	cancer	AB	5160-02-1	01-Jul-90	100
D&C Red No. 19	cancer	AB	81-88-9	01-Jul-90	

Chemical	Type of Toxicity	Listing Mechanism	CAS No.	Date Listed	NSRL or MADL (µg/day)[a]
Dacarbazine	cancer	SQE	4342-03-4	01-Jan-88	0.01
Dacarbazine	developmental	FR	4342-03-4	29-Jan-99	
Daminozide	cancer	AB	1596-84-5	01-Jan-90	40
Danazol	developmental	FR	17230-88-5	01-Apr-90	
Dantron (Chrysazin; 1,8-Dihydroxyanthraquinone)	cancer	AB	117-10-2	01-Jan-92	9
Daunomycin	cancer	SQE	20830-81-3	01-Jan-88	
Daunorubicin hydrochloride	developmental	FR	23541-50-6	01-Jul-90	
2,4-D butyric acid [Click here for the basis for the removal of developmental endpoint, effective June 22, 2001]	~~developmental~~, male	AB	94-82-6	18-Jun-99	910
DDD (Dichlorodiphenyl-dichloroethane)	cancer	SQE	72-54-8	01-Jan-89	2 (DDT, DDE, DDD in combination)
DDE (Dichlorodiphenyl-dichloroethylene)	cancer	SQE	72-55-9	01-Jan-89	2 (DDT, DDE, DDD in combination)
DDT (Dichlorodiphenyl-trichloroethane)	cancer	SQE	50-29-3	01-Oct-87	2 (DDT, DDE, DDD in combination)
o,p'-DDT	developmental, female, male	AB	789-02-6	15-May-98	
p,p'-DDT	developmental, female, male	AB	50-29-3	15-May-98	
DDVP (Dichlorvos)	cancer	SQE	62-73-7	01-Jan-89	2
Demeclocycline hydrochloride (internal use)	developmental	FR	64-73-3	01-Jan-92	
Des-ethyl atrazine (DEA)	developmental, female	AB	6190-65-4	15-Jul-16	100 (oral)
Des-isopropyl atrazine (DIA)	developmental, female	AB	1007-28-9	15-Jul-16	100 (oral)
N,N'-Diacetylbenzidine	cancer	LC	613-35-4	01-Oct-89	
2,4-Diaminoanisole	cancer	FR	615-05-4	01-Oct-90	30
2,4-Diaminoanisole sulfate	cancer	SQE	39156-41-7	01-Jan-88	50
2,4-Diamino-6-chloro-*s*-triazine (DACT)	developmental, female	AB	3397-62-4	15-Jul-16	100 (oral)
4,4'-Diaminodiphenyl ether (4,4'-Oxydianiline)	cancer	SQE	101-80-4	01-Jan-88	5
2,4-Diaminotoluene	cancer	SQE	95-80-7	01-Jan-88	0.2
Diaminotoluene (mixed) Delisted November, 20 2015 [Click here for the basis for delisting]	~~cancer~~	~~AB~~	---	01-Jan-90	
Diazepam	developmental	FR	439-14-5	01-Jan-92	
Diazoaminobenzene	cancer	LC	136-35-6	20-May-05	
Diazoxide	developmental	FR	364-98-7	27-Feb-01	
Dibenz[a,h]acridine	cancer	SQE	226-36-8	01-Jan-88	
Dibenz[a,j]acridine	cancer	SQE	224-42-0	01-Jan-88	
Dibenzanthracenes	cancer	SQE	---	26-Dec-14	
Dibenz[a,c]anthracene	cancer	SQE	215-58-7	26-Dec-14	

Chemical	Type of Toxicity	Listing Mechanism	CAS No.	Date Listed	NSRL or MADL (µg/day)[a]
Dibenz[a,h]anthracene	cancer	SQE	53-70-3	01-Jan-88	0.2
Dibenz[a,j]anthracene	cancer	SQE	224-41-9	26-Dec-14	
7H-Dibenzo[c,g]carbazole	cancer	SQE	194-59-2	01-Jan-88	0.0030 (oral)
Dibenzo[a,e]pyrene	cancer	SQE	192-65-4	01-Jan-88	
Dibenzo[a,h]pyrene	cancer	SQE	189-64-0	01-Jan-88	0.0054 (oral)
Dibenzo[a,i]pyrene	cancer	SQE	189-55-9	01-Jan-88	0.0050 (oral)
Dibenzo[a,l]pyrene	cancer	SQE	191-30-0	01-Jan-88	
Dibromoacetic acid	cancer	AB	631-64-1	17-Jun-08	
Dibromoacetonitrile	cancer	AB	3252-43-5	03-May-11	
1,2-Dibromo-3-chloropropane (DBCP)	cancer	FR	96-12-8	01-Jul-87	0.1
1,2-Dibromo-3-chloropropane (DBCP) [Basis for listing changed effective November 22, 2013]	male	FR	96-12-8	27-Feb-87	3.1 (oral) 4.3 (inhalation)
2,3-Dibromo-1-propanol	cancer	AB	96-13-9	01-Oct-94	
Dichloroacetic acid	cancer	AB	79-43-6	01-May-96	
Dichloroacetic acid	developmental, male	AB	79-43-6	07-Aug-09	
p-Dichlorobenzene	cancer	SQE	106-46-7	01-Jan-89	20
3,3'-Dichlorobenzidine	cancer	SQE	91-94-1	01-Oct-87	0.6
3,3'-Dichlorobenzidine dihydrochloride	cancer	AB	612-83-9	15-May-98	
1,1-Dichloro-2,2-bis(*p*-chlorophenyl)ethylene (DDE)	developmental, male	AB	72-55-9	30-Mar-10	
1,4-Dichloro-2-butene	cancer	AB	764-41-0	01-Jan-90	
3,3'-Dichloro-4,4'-diamino-diphenyl ether	cancer	SQE	28434-86-8	01-Jan-88	
1,1-Dichloroethane	cancer	AB	75-34-3	01-Jan-90	100
Dichloromethane (Methylene chloride)	cancer	SQE	75-09-2	01-Apr-88	50 200 (inhalation)
Dichlorophene	developmental	AB	97-23-4	27-Apr-99	
Dichlorphenamide	developmental	FR	120-97-8	27-Feb-01	
1,2-Dichloropropane	cancer	AB	78-87-5	01-Jan-90	9.7
1,3-Dichloro-2-propanol (1,3-DCP)	cancer	SQE	96-23-1	08-Oct-10	
1,3-Dichloropropene	cancer	SQE	542-75-6	01-Jan-89	
Diclofop-methyl	cancer	AB	51338-27-3	06-Apr-10	
Diclofop methyl	developmental	AB	51338-27-3	05-Mar-99	
Dicumarol	developmental	FR	66-76-2	01-Oct-92	
Dieldrin	cancer	SQE	60-57-1	01-Jul-88	0.04
Dienestrol Delisted January 4, 2013 [Click here for the basis for delisting]	~~cancer~~	~~LC~~	~~84-17-3~~	~~01-Jan-90~~	
Diepoxybutane	cancer	SQE	1464-53-5	01-Jan-88	
Diesel engine exhaust	cancer	AB	---	01-Oct-90	
Diethanolamine	cancer	LC	111-42-2	22-Jun-12	
Di(2-ethylhexyl)phthalate (DEHP)	cancer	SQE	117-81-7	01-Jan-88	310
Di(2-ethylhexyl)phthalate (DEHP)	developmental, male	AB	117-81-7	24-Oct-03	
Adult[b]					4200 (intravenous)
Infant boys, age 29 days to 24 months[b]					600 (intravenous)

Chemical	Type of Toxicity	Listing Mechanism	CAS No.	Date Listed	NSRL or MADL (µg/day)[a]
Neonatal infant boys, age 0 to 28 days[b]					210 (intravenous)
Adult[b]					410 (oral)
Infant boys, age 29 days to 24 months[b]					58 (oral)
Neonatal infant boys, age 0 to 28 days[b]					20 (oral)
1,2-Diethylhydrazine	cancer	SQE	1615-80-1	01-Jan-88	
Diethylstilbestrol (DES)	cancer	LC	56-53-1	27-Feb-87	0.002
Diethylstilbestrol (DES)	developmental	FR	56-53-1	01-Jul-87	
Diethyl sulfate	cancer	SQE	64-67-5	01-Jan-88	
Diflunisal	developmental, female	FR	22494-42-4	29-Jan-99	
Diglycidyl ether Delisted April 4, 2014 [Click here for the basis for delisting]	~~male~~	~~LC~~	~~2238-07-5~~	~~07-Aug-09~~	
Diglycidyl resorcinol ether (DGRE)	cancer	SQE	101-90-6	01-Jul-89	0.4
Dihydroergotamine mesylate	developmental	FR	6190-39-2	01-May-97	
Dihydrosafrole	cancer	SQE	94-58-6	01-Jan-88	20
Di-isodecyl phthalate (DIDP)	developmental	AB	68515-49-1/ 26761-40-0	20-Apr-07	2200
Diisononyl phthalate (DINP)	cancer	SQE	---	20-Dec-13	146
Diisopropyl sulfate	cancer	AB	2973-10-6	01-Apr-93	
Diltiazem hydrochloride	developmental	FR	33286-22-5	27-Feb-01	
3,3'-Dimethoxybenzidine (*o*-Dianisidine)	cancer	SQE	119-90-4	01-Jan-88	0.15
3,3'-Dimethoxybenzidine dihydrochloride	cancer	AB	20325-40-0	01-Oct-90	0.19
3,3'-Dimethoxybenzidine-based dyes metabolized to 3,3'-dimethoxybenzidine	cancer	AB	---	11-Jun-04	
N,N-Dimethylacetamide [Click here for the basis for addition of male reproductive endpoint, effective December 20, 2013]	developmental, male	SQE	127-19-5	21-May-10	
4-Dimethylaminoazobenzene	cancer	SQE	60-11-7	01-Jan-88	0.2
trans-2-[(Dimethylamino)methylimino]-5-[2-(5-nitro-2-furyl)vinyl]-1,3,4-oxadiazole	cancer	SQE	55738-54-0	01-Jan-88	2
7,12-Dimethylbenz(a)anthracene	cancer	AB	57-97-6	01-Jan-90	0.003
3,3'-Dimethylbenzidine (ortho-Tolidine)	cancer	SQE	119-93-7	01-Jan-88	0.044
3,3'-Dimethylbenzidine-based dyes metabolized to 3,3'-dimethylbenzidine	cancer	AB	---	11-Jun-04	
3,3'-Dimethylbenzidine dihydrochloride	cancer	AB	612-82-8	01-Apr-92	0.059
Dimethylcarbamoyl chloride	cancer	SQE	79-44-7	01-Jan-88	0.05
N,N-Dimethylformamide	cancer	LC	68-12-2	27-Oct-17	
1,1-Dimethylhydrazine (UDMH)	cancer	LC	57-14-7	01-Oct-89	
1,2-Dimethylhydrazine	cancer	SQE	540-73-8	01-Jan-88	0.001

Chemical	Type of Toxicity	Listing Mechanism	CAS No.	Date Listed	NSRL or MADL (µg/day)[a]
2,6-Dimethyl-N-nitrosomorpholine (DMNM)	cancer	SQE	1456-28-6	08-Feb-13	
Dimethyl sulfate	cancer	SQE	77-78-1	01-Jan-88	
N,*N*-Dimethyl-*p*-toluidine	cancer	AB	99-97-8	02-May-14	
Dimethylvinylchloride	cancer	SQE	513-37-1	01-Jul-89	20
Di-*n*-butyl phthalate (DBP)	developmental, female, male	AB	84-74-2	02-Dec-05	8.7
Di-*n*-hexyl phthalate (DnHP)	female, male	AB	84-75-3	02-Dec-05	2200 (oral)
m-Dinitrobenzene	male	AB	99-65-0	01-Jul-90	38
o-Dinitrobenzene	male	AB	528-29-0	01-Jul-90	
p-Dinitrobenzene	male	AB	100-25-4	01-Jul-90	
3,7-Dinitrofluoranthene	cancer	AB	105735-71-5	26-Aug-97	
3,9-Dinitrofluoranthene	cancer	AB	22506-53-2	26-Aug-97	
1,3-Dinitropyrene	cancer	LC	75321-20-9	02-Nov-12	
1,6-Dinitropyrene	cancer	AB	42397-64-8	01-Oct-90	
1,8-Dinitropyrene	cancer	AB	42397-65-9	01-Oct-90	
2,4-Dinitrotoluene	cancer	SQE	121-14-2	01-Jul-88	2
2,4-Dinitrotoluene	male	AB	121-14-2	20-Aug-99	
2,6-Dinitrotoluene	cancer	SQE	606-20-2	01-Jul-95	
2,6-Dinitrotoluene	male	AB	606-20-2	20-Aug-99	
Dinitrotoluene (technical grade)	female, male	AB	---	20-Aug-99	
Dinitrotoluene mixture, 2,4-/2,6-	cancer	AB	---	01-May-96	
Dinocap	developmental	FR	39300-45-3	01-Apr-90	
Dinoseb	developmental, male	FR	88-85-7	01-Jan-89	
Di-*n*-propyl isocinchomeronate (MGK Repellent 326)	cancer	AB	136-45-8	01-May-96	
1,4-Dioxane	cancer	SQE	123-91-1	01-Jan-88	30
Diphenylhydantoin (Phenytoin)	cancer	SQE	57-41-0	01-Jan-88	
Diphenylhydantoin (Phenytoin)	developmental	SQE	57-41-0	01-Jul-87	
Diphenylhydantoin (Phenytoin), sodium salt	cancer	SQE	630-93-3	01-Jan-88	
Direct Black 38 (technical grade)	cancer	SQE	1937-37-7	01-Jan-88	0.09
Direct Blue 6 (technical grade)	cancer	SQE	2602-46-2	01-Jan-88	0.09
Direct Brown 95 (technical grade)	cancer	SQE	16071-86-6	01-Oct-88	0.1
Disodium cyanodithioimidocarbonate	developmental	AB	138-93-2	30-Mar-99	56 (oral) 170 (oral) as 32% pesticidal formulation
Disperse Blue 1	cancer	AB	2475-45-8	01-Oct-90	200
Diuron	cancer	AB	330-54-1	31-May-02	
Doxorubicin hydrochloride (Adriamycin)	cancer	SQE	25316-40-9	01-Jul-87	
Doxorubicin hydrochloride (Adriamycin)	developmental, male	FR	25316-40-9	29-Jan-99	
Doxycycline (internal use)	developmental	FR	564-25-0	01-Jul-90	
Doxycycline calcium (internal use)	developmental	FR	94088-85-4	01-Jan-92	
Doxycycline hyclate (internal use)	developmental	FR	24390-14-5	01-Oct-91	
Doxycycline monohydrate (internal use)	developmental	FR	17086-28-1	01-Oct-91	

Chemical	Type of Toxicity	Listing Mechanism	CAS No.	Date Listed	NSRL or MADL (µg/day)[a]
2,4-DP (dichloroprop) Delisted January 25, 2002 [Click here for the basis for delisting]	~~developmental~~	~~AB~~	~~120-36-5~~	~~27-Apr-99~~	
Emissions from combustion of coal	cancer	AB	---	07-Aug-13	
Emissions from high-temperature unrefined rapeseed oil	cancer	AB	---	03-Jan-14	
Endrin	developmental	AB	72-20-8	15-May-98	
Environmental tobacco smoke (ETS)	developmental	SQE	---	09-Jun-06	
Epichlorohydrin	cancer	SQE	106-89-8	01-Oct-87	9
Epichlorohydrin	male	AB	106-89-8	01-Sep-96	
Epoxiconazole	cancer	AB	135319-73-2	15-Apr-11	
Ergotamine tartrate	developmental	FR	379-79-3	01-Apr-90	
Erionite	cancer	SQE	12510-42-8; 66733-21-9	01-Oct-88	
Estradiol 17B	cancer	SQE	50-28-2	01-Jan-88	0.02
Estragole	cancer	SQE	140-67-0	29-Oct-99	
Estrogens, steroidal	cancer	LC	---	19-Aug-05	
Estrogen-progestogen (combined) used as menopausal therapy	cancer	LC	---	04-Nov-11	
Estrone	cancer	SQE	53-16-7	01-Jan-88	
Estropipate	cancer, developmental	FR	7280-37-7	26-Aug-97	
Ethanol in alcoholic beverages	cancer	LC	---	29-Apr-11	
Ethinylestradiol	cancer	SQE	57-63-6	01-Jan-88	
Ethionamide	developmental	FR	536-33-4	26-Aug-97	
Ethoprop	cancer	AB	13194-48-4	27-Feb-01	
Ethyl acrylate	cancer	SQE	140-88-5	01-Jul-89	
Ethyl alcohol in alcoholic beverages	developmental	SQE	---	01-Oct-87	
Ethylbenzene	cancer	AB	100-41-4	11-Jun-04	54 (inhalation) 41 (oral)
Ethyl-tert-butyl ether Delisted December 13, 2013 [Clik here for the basis for delisting]	~~male~~	~~LC~~	~~637-92-3~~	~~18-Dec-09~~	
Ethyl dipropylthiocarbamate	developmental	AB	759-94-4	27-Apr-99	700 (oral and inhalation) 6700 (dermal)
Ethyl-4,4'-dichlorobenzilate	cancer	AB	510-15-6	01-Jan-90	7
Ethylene dibromide	cancer	FR	106-93-4	01-Jul-87	0.2 (oral) 3 (inhalation)
Ethylene dibromide	developmental, male	AB	106-93-4	15-May-98	
Ethylene dichloride (1,2-Dichloroethane)	cancer	SQE	107-06-2	01-Oct-87	10
Ethylene glycol (ingested)	developmental	AB	107-21-1	19-Jun-15	8700 (oral)
Ethylene glycol monoethyl ether	developmental, male	SQE	110-80-5	01-Jan-89	750 (oral) 960 (inhalation)
Ethylene glycol monoethyl ether acetate	developmental, male	AB	111-15-9	01-Jan-93	1100 (oral) 1400 (inhalation)

Chemical	Type of Toxicity	Listing Mechanism	CAS No.	Date Listed	NSRL or MADL (µg/day)[a]
Ethylene glycol monomethyl ether	developmental, male	SQE	109-86-4	01-Jan-89	63 (oral)
Ethylene glycol monomethyl ether acetate	developmental, male	AB	110-49-6	01-Jan-93	98 (oral)
Ethyleneimine (Aziridine)	cancer	SQE	151-56-4	01-Jan-88	0.01
Ethylene oxide	cancer	FR	75-21-8	01-Jul-87	2
Ethylene oxide [Basis for listing changed effective November 22, 2013]	female	FR	75-21-8	27-Feb-87	20
Ethylene oxide [Basis for listing changed effective November 22, 2013]	developmental, male	FR	75-21-8	07-Aug-09	20
Ethylene thiourea	cancer	AB	96-45-7	01-Jan-88	20
Ethylene thiourea	developmental	SQE	96-45-7	01-Jan-93	
2-Ethylhexanoic acid Delisted December 13, 2013 [Click here for the basis for delisting]	~~developmental~~	LC	~~149-57-5~~	~~07-Aug-09~~	
Ethyl methanesulfonate	cancer	SQE	62-50-0	01-Jan-88	
Etodolac	developmental, female	FR	41340-25-4	20-Aug-99	
Etoposide	cancer	LC	33419-42-0	04-Nov-11	
Etoposide	developmental	FR	33419-42-0	01-Jul-90	
Etoposide in combination with cisplatin and bleomycin	cancer	LC	---	04-Nov-11	
Etretinate	developmental	SQE	54350-48-0	01-Jul-87	
Fenoxaprop ethyl	developmental	AB	66441-23-4	26-Mar-99	
Fenoxycarb	cancer	AB	72490-01-8	02-Jun-00	
Filgrastim	developmental	FR	121181-53-1	27-Feb-01	
Fluazifop butyl	developmental	AB	69806-50-4	06-Nov-98	
Flunisolide	developmental, female	FR	3385-03-3	15-May-98	
Fluorouracil	developmental	SQE	51-21-8	01-Jan-89	
Fluoxymesterone	developmental	FR	76-43-7	01-Apr-90	
Flurazepam hydrochloride	developmental	FR	1172-18-5	01-Oct-92	
Flurbiprofen	developmental, female	FR	5104-49-4	20-Aug-99	
Flutamide	developmental	FR	13311-84-7	01-Jul-90	
Fluticasone propionate	developmental	FR	80474-14-2	15-May-98	
Fluvalinate	developmental	AB	69409-94-5	06-Nov-98	
Folpet	cancer	SQE	133-07-3	01-Jan-89	200
Formaldehyde (gas)	cancer	SQE	50-00-0	01-Jan-88	40
2-(2-Formylhydrazino)-4-(5-nitro-2-furyl)thiazole	cancer	SQE	3570-75-0	01-Jan-88	0.3
Fumonisin B_1	cancer	AB	116355-83-0	14-Nov-03	
Furan	cancer	AB	110-00-9	01-Oct-93	
Furazolidone	cancer	AB	67-45-8	01-Jan-90	
Furfuryl alcohol	cancer	AB	98-00-0	30-Sep-16	
Furmecyclox	cancer	AB	60568-05-0	01-Jan-90	20
Fusarin C	cancer	SQE	79748-81-5	01-Jul-95	
Gallium arsenide	cancer	LC	1303-00-0	01-Aug-08	

Chemical	Type of Toxicity	Listing Mechanism	CAS No.	Date Listed	NSRL or MADL (µg/day)[a]
Ganciclovir	cancer, developmental, male	FR	82410-32-0	26-Aug-97	
Ganciclovir sodium	developmental, male	FR	107910-75-8	26-Aug-97	
Gasoline engine exhaust (condensates/extracts)	cancer	AB	---	01-Oct-90	
Gemfibrozil	cancer	FR	25812-30-0	22-Dec-00	
Gemfibrozil	female, male	FR	25812-30-0	20-Aug-99	
Glass wool fibers (inhalable and biopersistent)	cancer	AB	---	01-Jul-90	
Glu-P-1 (2-Amino-6-methyldipyrido[1,2- a:3',2'-d]imidazole)	cancer	AB	67730-11-4	01-Jan-90	0.1
Glu-P-2 (2-Aminodipyrido[1,2-a:3',2'-d]imidazole)	cancer	AB	67730-10-3	01-Jan-90	0.5
Glycidaldehyde	cancer	SQE	765-34-4	01-Jan-88	
Glycidol	cancer	AB	556-52-5	01-Jul-90	0.54
Glyphosate	cancer	LC	1071-83-6	07-Jul-17	1100
Goldenseal root powder	cancer	LC	---	04-Dec-15	
Goserelin acetate	developmental, female, male	FR	65807-02-5	26-Aug-97	
Griseofulvin	cancer	AB	126-07-8	01-Jan-90	
Gyromitrin (Acetaldehyde methylformylhydrazone)	cancer	SQE	16568-02-8	01-Jan-88	0.07
Halazepam	developmental	FR	23092-17-3	01-Jul-90	
Halobetasol propionate	developmental	FR	66852-54-8	20-Aug-99	
Haloperidol	developmental, female	FR	52-86-8	29-Jan-99	
Halothane	developmental	FR	151-67-7	01-Sep-96	
HC Blue 1	cancer	SQE	2784-94-3	01-Jul-89	10
Heptachlor	cancer	SQE	76-44-8	01-Jul-88	0.2
Heptachlor	developmental	AB	76-44-8	20-Aug-99	
Heptachlor epoxide	cancer	SQE	1024-57-3	01-Jul-88	0.08
Herbal remedies containing plant species of the genus *Aristolochia*	cancer	LC	---	09-Jul-04	
Hexachlorobenzene	cancer	SQE	118-74-1	01-Oct-87	0.4
Hexachlorobenzene	developmental	SQE	118-74-1	01-Jan-89	
Hexachlorobutadiene	cancer	AB	87-68-3	03-May-11	
Hexachlorocyclohexane (technical grade)	cancer	SQE	---	01-Oct-87	0.2
Hexachlorocyclohexane (alpha isomer)					0.3
Hexachlorocyclohexane (beta isomer)					0.5
Hexachlorocyclohexane (gamma isomer)					0.6
Hexachlorodibenzodioxin	cancer	SQE	34465-46- 8	01-Apr-88	0.0002
Hexachloroethane	cancer	AB	67-72-1	01-Jul-90	20
2,4-Hexadienal (89% trans, trans isomer; 11% cis, trans isomer)	cancer	AB	---	04-Mar-05	

Chemical	Type of Toxicity	Listing Mechanism	CAS No.	Date Listed	NSRL or MADL (µg/day)[a]
Hexafluoroacetone [Basis for listing changed effective June 6, 2014]	developmental, male	LC SQE	684-16-2	01-Aug-08	
Hexamethylphosphoramide	cancer	SQE	680-31-9	01-Jan-88	
Hexamethylphosphoramide	male	AB	680-31-9	01-Oct-94	
n-Hexane	male	SQE	110-54-3	15-Dec-17	
2,5-Hexanedione	male	SQE	110-13-4	04-Dec-15	
Histrelin acetate	developmental	FR	---	15-May-98	
Hydramethylnon	developmental, male	AB	67485-29-4	05-Mar-99	120 (oral)
Hydrazine	cancer	SQE	302-01-2	01-Jan-88	0.04
Hydrazine sulfate	cancer	SQE	10034-93-2	01-Jan-88	0.2
Hydrazobenzene (1,2-Diphenylhydrazine)	cancer	SQE	122-66-7	01-Jan-88	0.8
Hydrogen cyanide (HCN) and cyanide salts (CN salts)	male	AB	---	05-Jul-13	
Cyanide salts that readily dissociate in solution (expressed as cyanide)[f]					9.8
Hydrogen cyanide[f]					10 (oral)
Sodium cyanide[f]					19 (oral)
Potassium cyanide[f]					25 (oral)
1-Hydroxyanthraquinone	cancer	LC	129-43-1	27-May-05	
Hydroxyurea	developmental	FR	127-07-1	01-May-97	
Idarubicin hydrochloride	developmental, male	FR	57852-57-0	20-Aug-99	
Ifosfamide	developmental	FR	3778-73-2	01-Jul-90	
Iodine-131	developmental	SQE	10043-66-0	01-Jan-89	
Imazalil	cancer	AB	35554-44-0	20-May-11	11
Indeno[1,2,3-cd]pyrene	cancer	SQE	193-39-5	01-Jan-88	
Indium phosphide	cancer	AB	22398-80-7	27-Feb-01	
IQ (2-Amino-3-methylimidazo[4,5-f] quinoline)	cancer	AB	76180-96-6	01-Apr-90	0.5
Iprodione	cancer	AB	36734-19-7	01-May-96	
Iprovalicarb	cancer	AB	140923-17-7/ 140923-25-7	01-Jun-07	
Iron dextran complex	cancer	SQE	9004-66-4	01-Jan-88	
Isobutyl nitrite	cancer	AB	542-56-3	01-May-96	7.4
Isoprene	cancer	AB	78-79-5	01-May-96	
Isopyrazam	cancer	AB	881685-58-1	24-Jul-12	
Isosafrole Delisted December 8, 2006 [Click here for the basis for delisting]	~~cancer~~	~~LC~~	~~120-58-1~~	~~01-Oct-89~~	
Isotretinoin	developmental	SQE	4759-48-2	01-Jul-87	
Isoxaflutole	cancer	AB	141112-29-0	22-Dec-00	
Kresoxim-methyl	cancer	AB	143390-89-0	03-Feb-12	
Lactofen	cancer	SQE	77501-63-4	01-Jan-89	
Lasiocarpine	cancer	SQE	303-34-4	01-Apr-88	0.09
Lead [Basis for listing changed effective November 22, 2013]	developmental, female, male	FR	---	27-Feb-87	0.5

Chemical	Type of Toxicity	Listing Mechanism	CAS No.	Date Listed	NSRL or MADL (µg/day)[a]
Lead and lead compounds	cancer	AB	---	01-Oct-92	
Lead					15 (oral)
Lead acetate	cancer	SQE	301-04-2	01-Jan-88	23 (oral)
Lead phosphate	cancer	SQE	7446-27-7	01-Apr-88	58 (oral)
Lead subacetate	cancer	LC	1335-32-6	01-Oct-89	41 (oral)
Leather dust	cancer	LC	---	29-Apr-11	
Leuprolide acetate	developmental, female, male	FR	74381-53-6	26-Aug-97	
Levodopa	developmental	FR	59-92-7	29-Jan-99	
Levonorgestrel implants	female	FR	797-63-7	15-May-98	
Lindane and other hexachlorocyclohexane isomers	cancer	LC	---	01-Oct-89	
Linuron	developmental	AB	330-55-2	19-Mar-99	460
Lithium carbonate	developmental	FR	554-13-2	01-Jan-91	
Lithium citrate	developmental	FR	919-16-4	01-Jan-91	
Lorazepam	developmental	FR	846-49-1	01-Jul-90	
Lovastatin	developmental	FR	75330-75-5	01-Oct-92	
Lynestrenol	cancer	AB	52-76-6	27-Feb-01	
Malathion	cancer	LC	121-75-5	20-May-16	180
Malonaldehyde, sodium salt	cancer	AB	24382-04-5	03-May-11	
Mancozeb	cancer	AB	8018-01-7	01-Jan-90	
Maneb	cancer	AB	12427-38-2	01-Jan-90	
Marijuana smoke	cancer	SQE	---	19-Jun-09	
Me-A-alpha-C (2-Amino-3-methyl-9H-pyrido[2,3-b]indole)	cancer	AB	68006-83-7	01-Jan-90	0.6
Mebendazole	developmental	FR	31431-39-7	20-Aug-99	
Medroxyprogesterone acetate	cancer	AB	71-58-9	01-Jan-90	
Medroxyprogesterone acetate	developmental	FR	71-58-9	01-Apr-90	
Megestrol acetate	cancer	FR	595-33-5	28-Mar-14	
Megestrol acetate	developmental	FR	595-33-5	01-Jan-91	
MeIQ (2-Amino-3,4-dimethylimidazo[4,5-f]quinoline)	cancer	AB	77094-11-2	01-Oct-94	0.46
MeIQx (2-Amino-3,8-dimethylimidazo[4,5-f]quinoxaline)	cancer	AB	77500-04-0	01-Oct-94	0.41
Melphalan	cancer	LC	148-82-3	27-Feb-87	0.005
Melphalan	developmental	FR	148-82-3	01-Jul-90	
Menotropins	developmental	FR	9002-68-0	01-Apr-90	
Mepanipyrim	cancer	AB	110235-47-7	01-Jul-08	
Meprobamate	developmental	FR	57-53-4	01-Jan-92	
2 Mercaptobenzothiazole	cancer	LC	149-30-4	27-Oct-17	
Mercaptopurine	developmental	FR	6112-76-1	01-Jul-90	
Mercury and mercury compounds	developmental	AB	---	01-Jul-90	
Merphalan	cancer	SQE	531-76-0	01-Apr-88	
Mestranol	cancer	SQE	72-33-3	01-Apr-88	
Metam potassium	cancer	AB	137-41-7	31-Dec-10	
Methacycline hydrochloride	developmental	FR	3963-95-9	01-Jan-91	
Metham sodium	cancer	AB	137-42-8	06-Nov-98	
Metham sodium	developmental	AB	137-42-8	15-May-98	
Methanol	developmental	AB	67-56-1	16-Mar-12	47,000 (inhalation) 23,000 (oral)
Methazole	developmental	AB	20354-26-1	01-Dec-99	

Chemical	Type of Toxicity	Listing Mechanism	CAS No.	Date Listed	NSRL or MADL (µg/day)[a]
Methimazole	developmental	FR	60-56-0	01-Jul-90	
Methotrexate	developmental	SQE	59-05-2	01-Jan-89	
Methotrexate sodium	developmental	FR	15475-56-6	01-Apr-90	
5-Methoxypsoralen with ultraviolet A therapy	cancer	SQE	484-20-8	01-Oct-88	
8-Methoxypsoralen with ultraviolet A therapy	cancer	LC	298-81-7	27-Feb-87	
2-Methylaziridine (Propyleneimine)	cancer	SQE	75-55-8	01-Jan-88	0.028
Methylazoxymethanol	cancer	SQE	590-96-5	01-Apr-88	
Methylazoxymethanol acetate	cancer	SQE	592-62-1	01-Apr-88	
Methyl bromide, as a structural fumigant	developmental	FR	74-83-9	01-Jan-93	810 (inhalation)
Methyl carbamate	cancer	AB	598-55-0	15-May-98	160
Methyl chloride	developmental	AB	74-87-3	10-Mar-00	
Methyl chloride [Basis for listing changed effective March 7, 2014]	male	AB	74-87-3	07-Aug-09	
3-Methylcholanthrene	cancer	AB	56-49-5	01-Jan-90	0.03
5-Methylchrysene	cancer	SQE	3697-24-3	01-Apr-88	0.0084 (oral)
4,4'-Methylene bis(2-chloroaniline)	cancer	FR	101-14-4	01-Jul-87	0.5
4,4'-Methylene bis(N,N-dimethyl)benzenamine	cancer	LC	101-61-1	01-Oct-89	20
4,4'-Methylene bis(2-methylaniline)	cancer	SQE	838-88-0	01-Apr-88	0.8
4,4'-Methylenedianiline	cancer	SQE	101-77-9	01-Jan-88	0.4
4,4'-Methylenedianiline dihydrochloride	cancer	SQE	13552-44-8	01-Jan-88	0.6
Methyleugenol	cancer	AB	93-15-2	16-Nov-01	
Methylhydrazine and its salts	cancer	AB	---	01-Jul-92	
Methylhydrazine					0.058 (oral) 0.090 (inhalation)
Methylhydrazine sulfate					0.18
2-Methylimidazole	cancer	LC	693-98-1	22-Jun-12	
4-Methylimidazole	cancer	AB	822-36-6	07-Jan-11	29
Methyl iodide	cancer	SQE	74-88-4	01-Apr-88	
Methyl isobutyl ketone	cancer	LC	108-10-1	04-Nov-11	
Methyl isobutyl ketone (MIBK)	developmental	AB	108-10-1	28-Mar-14	
Methyl isocyanate (MIC)	developmental, female	SQE	624-83-9	12-Nov-10	
Methyl isopropyl ketone Delisted April 4, 2014 [Click for the basis for delisting]	~~developmental~~	LC	~~563-80-4~~	~~17-Feb-12~~	
Methyl mercury	developmental	SQE	---	01-Jul-87	
Methylmercury compounds	cancer	AB	---	01-May-96	
Methyl methanesulfonate	cancer	SQE	66-27-3	01-Apr-88	7
Methyl-n-butyl ketone	developmental	SQE	591-78-6	04-Dec-15	
Methyl-n-butyl ketone [Basis for listing changed effective November 9, 2015]	male	SQE	591-78-6	07-Aug-09	
2-Methyl-1-nitroanthraquinone (of uncertain purity)	cancer	SQE	129-15-7	01-Apr-88	0.2
N-Methyl-N'-nitro-N-nitrosoguanidine	cancer	SQE	70-25-7	01-Apr-88	0.08
N-Methylolacrylamide	cancer	AB	924-42-5	01-Jul-90	

Chemical	Type of Toxicity	Listing Mechanism	CAS No.	Date Listed	NSRL or MADL (µg/day)[a]
N-Methylpyrrolidone	developmental	AB	872-50-4	15-Jun-01	3200 (inhalation) 17000 (dermal)
α-Methyl styrene (alpha-Methylstyrene)	cancer	LC	98-83-9	02-Nov-12	
α-Methyl styrene Delisted April 4, 2014 [Click for the basis for delisting]	~~female~~	~~LC~~	~~98-83-9~~	~~29-Jul-11~~	
Methyltestosterone	developmental	FR	58-18-4	01-Apr-90	
Methylthiouracil	cancer	LC	56-04-2	01-Oct-89	2
Metiram	cancer	AB	9006-42-2	01-Jan-90	
Metiram	developmental	AB	9006-42-2	30-Mar-99	
Metronidazole	cancer	SQE	443-48-1	01-Jan-88	
Michler's ketone	cancer	SQE	90-94-8	01-Jan-88	0.8
Midazolam hydrochloride	developmental	FR	59467-96-8	01-Jul-90	
Minocycline hydrochloride (internal use)	developmental	FR	13614-98-7	01-Jan-92	
Mirex	cancer	SQE	2385-85-5	01-Jan-88	0.04
Misoprostol	developmental	FR	59122-46-2	01-Apr-90	
Mitomycin C	cancer	SQE	50-07-7	01-Apr-88	0.00009
Mitoxantrone hydrochloride	cancer	FR	70476-82-3	23-Jan-15	
Mitoxantrone hydrochloride	developmental	FR	70476-82-3	01-Jul-90	
Molinate	developmental, female, male	AB	2212-67-1	11-Dec-09	
MON 4660 (dichloroacetyl-1-oxa-4-azaspiro(4,5)-decane	cancer	AB	71526-07-3	22-Mar-11	
MON 13900 (furilazole)	cancer	AB	121776-33-8	22-Mar-11	
3-Monochloropropane-1,2-diol (3-MCPD)	cancer	SQE	96-24-2	08-Oct-10	
Monocrotaline	cancer	SQE	315-22-0	01-Apr-88	0.07
MOPP (vincristine-prednisone-nitrogen mustard-procarbazine mixture)	cancer	LC	113803-47-7	04-Nov-11	
5-(Morpholinomethyl)-3-[(5-nitrofurfuryl-idene)-amino]-2-oxazolidinone	cancer	SQE	139-91-3	01-Apr-88	0.18
Mustard Gas	cancer	LC	505-60-2	27-Feb-87	
MX (3-chloro-4-dichloromethyl-5-hydroxy-2(5H)-furanone)	cancer	SQE	77439-76-0	22-Dec-00	0.11
Myclobutanil	developmental, male	AB	88671-89-0	16-Apr-99	
beta-Myrcene	cancer	AB	123-35-3	27-Mar-15	
Nabam	developmental	AB	142-59-6	30-Mar-99	
Nafarelin acetate	developmental	FR	86220-42-0	01-Apr-90	
Nafenopin	cancer	SQE	3771-19-5	01-Apr-88	
Nalidixic acid	cancer	AB	389-08-2	15-May-98	28
Naphthalene	cancer	AB	91-20-3	19-Apr-02	5.8
1-Naphthylamine	cancer	LC	134-32-7	01-Oct-89	
2-Naphthylamine	cancer	LC	91-59-8	27-Feb-87	0.4
Neomycin sulfate (internal use)	developmental	FR	1405-10-3	01-Oct-92	
Netilmicin sulfate	developmental	FR	56391-57-2	01-Jul-90	
Nickel (Metallic)	cancer	LC	7440-02-0	01-Oct-89	

Chemical	Type of Toxicity	Listing Mechanism	CAS No.	Date Listed	NSRL or MADL (µg/day)[a]
Nickel acetate	cancer	LC	373-02-4	01-Oct-89	
Nickel carbonate	cancer	LC	3333-67-3	01-Oct-89	
Nickel carbonyl	cancer	SQE	13463-39-3	01-Oct-87	
Nickel carbonyl	developmental	AB	13463-39-3	01-Sep-96	
Nickel compounds	cancer	LC	---	07-May-04	
Nickel hydroxide	cancer	LC	12054-48-7; 12125-56-3	01-Oct-89	
Nickelocene	cancer	LC	1271-28-9	01-Oct-89	
Nickel oxide	cancer	LC	1313-99-1	01-Oct-89	
Nickel refinery dust from the pyrometallurgical process	cancer	SQE	---	01-Oct-87	0.8
Nickel subsulfide	cancer	SQE	12035-72-2	01-Oct-87	0.4
Nicotine	developmental	FR	54-11-5	01-Apr-90	
Nifedipine	developmental, female, male	FR	21829-25-4	29-Jan-99	
Nimodipine	developmental	FR	66085-59-4	24-Apr-01	
Niridazole	cancer	SQE	61-57-4	01-Apr-88	
Nitrapyrin [Basis for listing changed effective on November 4, 2015]	cancer	SQE	1929-82-4	05-Oct-05	
Nitrapyrin	developmental	AB	1929-82-4	30-Mar-99	
Nitrilotriacetic acid	cancer	SQE	139-13-9	01-Jan-88	100
Nitrilotriacetic acid, trisodium salt monohydrate	cancer	SQE	18662-53-8	01-Apr-89	70
5-Nitroacenaphthene	cancer	SQE	602-87-9	01-Apr-88	6
5-Nitro-o-anisidine Delisted December 8, 2006 [Click here for the basis for delisting]	~~cancer~~	~~LC~~	~~99-59-2~~	~~01-Oct-89~~	~~10~~
o-Nitroanisole	cancer	AB	91-23-6	01-Oct-92	
Nitrobenzene	cancer	AB	98-95-3	26-Aug-97	
Nitrobenzene	male	AB	98-95-3	30-Mar-10	
4-Nitrobiphenyl	cancer	SQE	92-93-3	01-Apr-88	
6-Nitrochrysene	cancer	AB	7496-02-8	01-Oct-90	
Nitrofen (technical grade)	cancer	SQE	1836-75-5	01-Jan-88	9
2-Nitrofluorene	cancer	AB	607-57-8	01-Oct-90	
Nitrofurantoin	male	AB	67-20-9	01-Apr-91	
Nitrofurazone	cancer	AB	59-87-0	01-Jan-90	0.5
1-[(5-Nitrofurfurylidene)-amino]-2-imidazolidinone	cancer	SQE	555-84-0	01-Apr-88	0.4
N-[4-(5-Nitro-2-furyl)-2-thiazolyl]acetamide	cancer	SQE	531-82-8	01-Apr-88	0.5
Nitrogen mustard (Mechlorethamine)	cancer	SQE	51-75-2	01-Jan-88	
Nitrogen mustard (Mechlorethamine)	developmental	SQE	51-75-2	01-Jan-89	
Nitrogen mustard hydrochloride (Mechlorethamine hydrochloride)	cancer	SQE	55-86-7	01-Apr-88	
Nitrogen mustard hydrochloride (Mechlorethamine hydrochloride)	developmental	FR	55-86-7	01-Jul-90	
Nitrogen mustard N-oxide	cancer	SQE	126-85-2	01-Apr-88	
Nitrogen mustard N-oxide hydrochloride	cancer	SQE	302-70-5	01-Apr-88	
Nitromethane	cancer	AB	75-52-5	01-May-97	39
2-Nitropropane	cancer	SQE	79-46-9	01-Jan-88	

Chemical	Type of Toxicity	Listing Mechanism	CAS No.	Date Listed	NSRL or MADL (µg/day)[a]
1-Nitropyrene	cancer	AB	5522-43-0	01-Oct-90	
4-Nitropyrene	cancer	AB	57835-92-4	01-Oct-90	
N-Nitrosodi-*n*-butylamine	cancer	SQE	924-16-3	01-Oct-87	0.06
N-Nitrosodiethanolamine	cancer	SQE	1116-54-7	01-Jan-88	0.3
N-Nitrosodiethylamine	cancer	SQE	55-18-5	01-Oct-87	0.02
N-Nitrosodimethylamine	cancer	SQE	62-75-9	01-Oct-87	0.04
p-Nitrosodiphenylamine	cancer	SQE	156-10-5	01-Jan-88	30
N-Nitrosodiphenylamine	cancer	SQE	86-30-6	01-Apr-88	80
N-Nitrosodi-*n*-propylamine	cancer	SQE	621-64-7	01-Jan-88	0.1
N-Nitroso-N-ethylurea	cancer	SQE	759-73-9	01-Oct-87	0.03
3-(N-Nitrosomethylamino) propionitrile	cancer	AB	60153-49-3	01-Apr-90	
4-(N-Nitrosomethylamino)-1-(3-pyridyl)1-butanone	cancer	AB	64091-91-4	01-Apr-90	0.014
N-Nitrosomethyl-n-butylamine	cancer	SQE	7068-83-9	26-Dec-14	
N-Nitrosomethyl-n-decylamine	cancer	SQE	75881-22-0	26-Dec-14	
N-Nitrosomethyl-n-dodecylamine	cancer	SQE	55090-44-3	26-Dec-14	
N-Nitrosomethylethylamine	cancer	LC	10595-95-6	01-Oct-89	0.03
N-Nitrosomethyl-n-heptylamine	cancer	SQE	16338-99-1	26-Dec-14	
N-Nitrosomethyl-n-hexylamine	cancer	SQE	28538-70-7	26-Dec-14	
N-Nitrosomethyl-n-nonylamine	cancer	SQE	75881-19-5	26-Dec-14	
N-Nitrosomethyl-n-octylamine	cancer	SQE	34423-54-6	26-Dec-14	
N-Nitrosomethyl-n-pentylamine	cancer	SQE	13256-07-0	26-Dec-14	
N-Nitrosomethyl-n-propylamine	cancer	SQE	924-46-9	26-Dec-14	
N-Nitrosomethyl-n-tetradecylamine	cancer	SQE	75881-20-8	26-Dec-14	
N-Nitrosomethyl-n-undecylamine	cancer	SQE	68107-26-6	26-Dec-14	
N-Nitroso-N-methylurea	cancer	SQE	684-93-5	01-Oct-87	0.006
N-Nitroso-N-methylurethane	cancer	SQE	615-53-2	01-Apr-88	0.006
N-Nitrosomethylvinylamine	cancer	SQE	4549-40-0	01-Jan-88	
N-Nitrosomorpholine	cancer	SQE	59-89-2	01-Jan-88	0.1
N-Nitrosonornicotine	cancer	SQE	16543-55-8	01-Jan-88	0.5
N-Nitrosopiperidine	cancer	SQE	100-75-4	01-Jan-88	0.07
N-Nitrosopyrrolidine	cancer	SQE	930-55-2	01-Oct-87	0.3
N-Nitrososarcosine	cancer	SQE	13256-22-9	01-Jan-88	
o-Nitrotoluene	cancer	AB	88-72-2	15-May-98	
Nitrous oxide [Basis for listing changed effective November 8, 2013]	developmental, female	AB	10024-97-2	01-Aug-08	
Norethisterone (Norethindrone)	cancer	LC	68-22-4	01-Oct-89	
Norethisterone (Norethindrone)	developmental	FR	68-22-4	01-Apr-90	
Norethisterone acetate (Norethindrone acetate)	developmental	FR	51-98-9	01-Oct-91	
Norethisterone (Norethindrone) /Ethinyl estradiol	developmental	FR	68-22-4/ 57-63-6	01-Apr-90	
Norethisterone (Norethindrone) /Mestranol	developmental	FR	68-22-4/ 72-33-3	01-Apr-90	
Norethynodrel	cancer	AB	68-23-5	27-Feb-01	
Norgestrel	developmental	FR	6533-00-2	01-Apr-90	
Ochratoxin A	cancer	AB	303-47-9	01-Jul-90	
Oil Orange SS	cancer	SQE	2646-17-5	01-Apr-88	
Oral contraceptives, combined	cancer	LC	---	01-Oct-89	
Oral contraceptives, sequential	cancer	LC	---	01-Oct-89	

Chemical	Type of Toxicity	Listing Mechanism	CAS No.	Date Listed	NSRL or MADL (µg/day)[a]
Oryzalin	cancer	AB	19044-88-3	12-Sep-08	
Oxadiazon	cancer	SQE	19666-30-9	01-Jul-91	
Oxadiazon	developmental	AB	19666-30-9	15-May-98	
Oxazepam	cancer	AB	604-75-1	01-Oct-94	
Oxazepam	developmental	FR	604-75-1	01-Oct-92	
p,p'-Oxybis(benzenesulfonyl hydrazide) Delisted December 13, 2013 [Click here for the basis for delisting]	~~developmental~~	~~LC~~	~~80-51-3~~	~~07-Aug-09~~	
Oxydemeton methyl	female, male	AB	301-12-2	06-Nov-98	
Oxymetholone	cancer	SQE	434-07-1	01-Jan-88	
Oxymetholone	developmental	FR	434-07-1	01-May-97	
Oxytetracycline (internal use)	developmental	FR	79-57-2	01-Jan-91	
Oxytetracycline hydrochloride (internal use)	developmental	FR	2058-46-0	01-Oct-91	
Oxythioquinox (Chinomethionat)	cancer	AB	2439-01-2	20-Aug-99	
Oxythioquinox (Chinomethionat)	developmental	AB	2439-01-2	06-Nov-98	
Paclitaxel	developmental, female, male	FR	33069-62-4	26-Aug-97	
Palygorskite fibers (> 5µm in length)	cancer	AB	12174-11-7	28-Dec-99	
Panfuran S	cancer	SQE	794-93-4	01-Jan-88	
Paramethadione	developmental	FR	115-67-3	01-Jul-90	
Parathion	cancer	LC	56-38-2	20-May-16	
Penicillamine	developmental	FR	52-67-5	01-Jan-91	
pentabromodiphenyl ether mixture [DE-71 (technical grade)]	cancer	AB	---	07-Jul-17	
Pentachlorophenol	cancer	AB	87-86-5	01-Jan-90	40
Pentachlorophenol and by-products of its synthesis (complex mixture)	cancer	AB	---	21-Oct-16	
Pentobarbital sodium	developmental	FR	57-33-0	01-Jul-90	
Pentosan polysulfate sodium	cancer	LC	---	18-Apr-14	
Pentostatin	developmental	FR	53910-25-1	01-Sep-96	
Perfluorooctane sulfonate (PFOS)	developmental	AB	1763-23-1	10-Nov-17	
Perfluorooctanoic acid (PFOA)	developmental	AB	335-67-1	10-Nov-17	
Pertuzumab	developmental	FR	380610-27-5	27-Jan-17	
Phenacemide	developmental	FR	63-98-9	01-Jul-90	
Phenacetin	cancer	LC	62-44-2	01-Oct-89	300
Phenazopyridine	cancer	SQE	94-78-0	01-Jan-88	4
Phenazopyridine hydrochloride	cancer	SQE	136-40-3	01-Jan-88	5
Phenesterin	cancer	SQE	3546-10-9	01-Jul-89	0.005
Phenobarbital	cancer	AB	50-06-6	01-Jan-90	2
Phenolphthalein	cancer	AB	77-09-8	15-May-98	
Phenoxybenzamine	cancer	SQE	59-96-1	01-Apr-88	0.2
Phenoxybenzamine hydrochloride	cancer	SQE	63-92-3	01-Apr-88	0.3
Phenprocoumon	developmental	FR	435-97-2	01-Oct-92	
o-Phenylenediamine and its salts	cancer	AB	95-54-5	15-May-98	
o-Phenylenediamine					26
o-Phenylenediamine dihydochloride					44
Phenyl glycidyl ether	cancer	AB	122-60-1	01-Oct-90	5
~~Phenyl glycidyl ether~~	~~male~~	LC	~~122-60-1~~	~~07-Aug-09~~	
Delisted April 4, 2014 [Click here					

Chemical	Type of Toxicity	Listing Mechanism	CAS No.	Date Listed	NSRL or MADL (µg/day)[a]
for the basis for delisting]					
Phenylhydrazine and its salts	cancer	AB	---	01-Jul-92	
Phenylhydrazine					1
Phenylhydrazine hydrochloride					1.4
o-Phenylphenate, sodium	cancer	AB	132-27-4	01-Jan-90	200
o-Phenylphenol	cancer	AB	90-43-7	04-Aug-00	
Phenylphosphine [Basis for listing changed effective June 6, 2014]	~~developmental~~ male	LC SQE	638-21-1	07-Aug-09	
PhiP(2-Amino-1-methyl-6-phenylimidazol[4,5-b]pyridine)	cancer	AB	105650-23-5	01-Oct-94	
Pimozide	developmental, female	FR	2062-78-4	20-Aug-99	
Pioglitazone	cancer	LC	111025-46-8	18-Apr-14	
Pipobroman	developmental	FR	54-91-1	01-Jul-90	
Pirimicarb	cancer	AB	23103-98-2	01-Jul-08	
Plicamycin	developmental	FR	18378-89-7	01-Apr-90	
Polybrominated biphenyls	cancer	SQE	---	01-Jan-88	0.02
Polybrominated biphenyls	developmental	AB	---	01-Oct-94	
Polychlorinated biphenyls	cancer	LC	---	01-Oct-89	0.09
Polychlorinated biphenyls	developmental	SQE	---	01-Jan-91	
Polychlorinated biphenyls (containing 60 or more percent chlorine by molecular weight)	cancer	SQE	---	01-Jan-88	
Polychlorinated dibenzo-*p*-dioxins	cancer	FR	---	01-Oct-92	
Polychlorinated dibenzofurans	cancer	FR	---	01-Oct-92	
Polygeenan	cancer	SQE	53973-98-1	01-Jan-88	1200
Ponceau MX	cancer	SQE	3761-53-3	01-Apr-88	200
Ponceau 3R	cancer	SQE	3564-09-8	01-Apr-88	40
Potassium bromate	cancer	AB	7758-01-2	01-Jan-90	1
Potassium dimethyldithiocarbamate	developmental	AB	128-03-0	30-Mar-99	720
Pravastatin sodium	developmental	FR	81131-70-6	03-Mar-00	
Prednisolone sodium phosphate	developmental	FR	125-02-0	20-Aug-99	
Primidone	cancer	AB	125-33-7	20-Aug-99	
Procarbazine	cancer	SQE	671-16-9	01-Jan-88	0.05
Procarbazine hydrochloride	cancer	SQE	366-70-1	01-Jan-88	0.06
Procarbazine hydrochloride	developmental	FR	366-70-1	01-Jul-90	
Procymidone	cancer	AB	32809-16-8	01-Oct-94	
Progesterone	cancer	SQE	57-83-0	01-Jan-88	
Pronamide	cancer	AB	23950-58-5	01-May-96	
Propachlor	cancer	AB	1918-16-7	27-Feb-01	
1,3-Propane sultone	cancer	SQE	1120-71-4	01-Jan-88	0.3
Propargite	cancer	AB	2312-35-8	01-Oct-94	
Propargite	developmental	AB	2312-35-8	15-Jun-99	
Propazine	developmental, female	AB	139-40-2	15-Jul-16	100 (oral)
beta-Propiolactone	cancer	SQE	57-57-8	01-Jan-88	0.05
Propoxur	cancer	AB	114-26-1	11-Aug-06	
Propylene glycol mono-*t*-butyl ether	cancer	AB	57018-52-7	11-Jun-04	
Propylene oxide	cancer	SQE	75-56-9	01-Oct-88	
Propylthiouracil	cancer	SQE	51-52-5	01-Jan-88	0.7
Propylthiouracil	developmental	FR	51-52-5	01-Jul-90	
Pulegone	cancer	LC	89-82-7	18-Apr-14	
Pymetrozine	cancer	AB	123312-89-0	22-Mar-11	

Chemical	Type of Toxicity	Listing Mechanism	CAS No.	Date Listed	NSRL or MADL (µg/day)[a]
Pyridine	cancer	AB	110-86-1	17-May-02	
Pyrimethamine	developmental	FR	58-14-0	29-Jan-99	
Quazepam	developmental	FR	36735-22-5	26-Aug-97	
Quinoline and its strong acid salts	cancer	SQE	---	24-Oct-97	
Quizalofop-ethyl	male	SQE	76578-14-8	24-Dec-99	590
Radionuclides	cancer	SQE	---	01-Jul-89	
Reserpine	cancer	LC	50-55-5	01-Oct-89	0.06
Residual (heavy) fuel oils	cancer	AB	---	01-Oct-90	
Resmethrin	cancer	AB	10453-86-8	01-Jul-08	
Resmethrin	developmental	AB	10453-86-8	06-Nov-98	
Retinol/retinyl esters, when in daily dosages in excess of 10,000 IU, or 3,000 retinol equivalents. (NOTE: Retinol/retinyl esters are required and essential for maintenance of normal reproductive function. The recommended daily level during pregnancy is 8,000 IU.)	developmental	SQE	---	01-Jul-89	
Ribavirin	developmental	FR	36791-04-5	01-Apr-90	
Ribavirin	male	FR	36791-04-5	27-Feb-01	
Riddelliine	cancer	LC	23246-96-0	03-Dec-04	
Rifampin	developmental, female	FR	13292-46-1	27-Feb-01	
Saccharin Delisted April 6, 2001 [Click here for the basis for delisting]	~~cancer~~	~~LC~~	~~81-07-2~~	~~01-Oct-89~~	
Saccharin, sodium Delisted January 17, 2003 [Click here for the basis for delisting]	~~cancer~~	~~SQE~~	~~128-44-9~~	~~01-Jan-88~~	
Safrole	cancer	SQE	94-59-7	01-Jan-88	3
Salted fish, Chinese-style	cancer	LC	---	29-Apr-11	
Secobarbital sodium	developmental	FR	309-43-3	01-Oct-92	
Sedaxane	cancer	AB	874967-67-6	01-Jul-16	
Selenium sulfide	cancer	LC	7446-34-6	01-Oct-89	
Sermorelin acetate	developmental	FR	---	20-Aug-99	
Shale-oils	cancer	AB	68308-34-9	01-Apr-90	
Silica, crystalline (airborne particles of respirable size)	cancer	SQE	---	01-Oct-88	
Simazine	developmental, female	AB	122-34-9	15-Jul-16	100 (oral)
Sodium dimethyldithiocarbamate	developmental	AB	128-04-1	30-Mar-99	23 (oral) 58 (oral) as a 40% pesticidal formulation
Sodium fluoroacetate	male	AB	62-74-8	06-Nov-98	
Soots, tars, and mineral oils (untreated and mildly treated oils and used engine oils)	cancer	LC	---	27-Feb-87	
Spirodiclofen	cancer	AB	148477-71-8	08-Oct-10	
Spironolactone	cancer	FR	52-01-7	01-May-97	

Chemical	Type of Toxicity	Listing Mechanism	CAS No.	Date Listed	NSRL or MADL (µg/day)[a]
Stanozolol	cancer	FR	10418-03-8	01-May-97	
Sterigmatocystin	cancer	SQE	10048-13-2	01-Apr-88	0.02
Streptomycin sulfate	developmental	FR	3810-74-0	01-Jan-91	
Streptozocin (streptozotocin)	developmental, female, male	FR	18883-66-4	20-Aug-99	
Streptozotocin (streptozocin)	cancer	SQE	18883-66-4	01-Jan-88	0.006
Strong inorganic acid mists containing sulfuric acid	cancer	AB	---	14-Mar-03	
Styrene	cancer	AB	100-42-5	22-Apr-16	27
Styrene oxide	cancer	SQE	96-09-3	01-Oct-88	4
Sulfallate	cancer	SQE	95-06-7	01-Jan-88	4
Sulfasalazine (Salicylazosulfapyridine)	cancer	AB	599-79-1	15-May-98	
Sulfasalazine (Salicylazosulfapyridine)	male	FR	599-79-1	29-Jan-99	
Sulfur dioxide[e]	developmental	SQE	7446-09-5	29-Jul-11	10000
Sulindac	developmental, female	FR	38194-50-2	29-Jan-99	
Talc containing asbestiform fibers	cancer	AB	---	01-Apr-90	
Tamoxifen and its salts	cancer	SQE	10540-29-1	01-Sep-96	
Tamoxifen citrate	developmental	FR	54965-24-1	01-Jul-90	
Temazepam	developmental	FR	846-50-4	01-Apr-90	
Teniposide	developmental	FR	29767-20-2	01-Sep-96	
Terbacil	developmental	AB	5902-51-2	18-May-99	
Teriparatide	cancer	FR	52232-67-4	14-Aug-15	
Terrazole	cancer	AB	2593-15-9	01-Oct-94	
Testosterone and its esters	cancer	SQE	58-22-0	01-Apr-88	
Testosterone cypionate	developmental	FR	58-20-8	01-Oct-91	
Testosterone enanthate	developmental	FR	315-37-7	01-Apr-90	
Tetrabromobisphenol A	cancer	LC	79-94-7	27-Oct-17	
3,3',4,4'-Tetrachloroazobenzene	cancer	AB	14047-09-7	24-Jul-12	
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	cancer	SQE	1746-01-6	01-Jan-88	0.000005
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	developmental	AB	1746-01-6	01-Apr-91	
1,1,1,2-Tetrachloroethane	cancer	LC	630-20-6	13-Sep-13	
1,1,2,2-Tetrachloroethane	cancer	AB	79-34-5	01-Jul-90	3
Tetrachloroethylene (Perchloroethylene)	cancer	SQE	127-18-4	01-Apr-88	14
p-a,a,a- Tetrachlorotoluene	cancer	AB	5216-25-1	01-Jan-90	
Tetrachlorvinphos	cancer	LC	22248-79-9	20-May-16	
Tetracycline (internal use)	developmental	FR	60-54-8	01-Oct-91	
Tetracyclines (internal use)	developmental	FR	---	01-Oct-92	
Tetracycline hydrochloride (internal use)	developmental	FR	64-75-5	01-Jan-91	
Tetrafluoroethylene	cancer	AB	116-14-3	01-May-97	
Tetranitromethane	cancer	AB	509-14-8	01-Jul-90	0.059
Thalidomide	developmental	SQE	50-35-1	01-Jul-87	
Thioacetamide	cancer	SQE	62-55-5	01-Jan-88	0.1
4,4'-Thiodianiline	cancer	SQE	139-65-1	01-Apr-88	0.05
Thiodicarb	cancer	AB	59669-26-0	20-Aug-99	
Thioguanine	developmental	FR	154-42-7	01-Jul-90	

Chemical	Type of Toxicity	Listing Mechanism	CAS No.	Date Listed	NSRL or MADL (µg/day)[a]
Thiophanate methyl	female, male	AB	23564-05-8	18-May-99	600 (oral)
Thiouracil	cancer		141-90-2	11-Jun-04	
Thiourea	cancer	SQE	62-56-6	01-Jan-88	10
Thorium dioxide	cancer	LC	1314-20-1	27-Feb-87	
Titanium dioxide (airborne, unbound particles of respirable size)	cancer	LC	---	02-Sep-11	
Tobacco, oral use of smokeless products	cancer	SQE	---	01-Apr-88	
Tobacco smoke	cancer	SQE	---	01-Apr-88	
Tobacco smoke (primary)	developmental, female, male	SQE	---	01-Apr-88	
Tobramycin sulfate	developmental	FR	49842-07-1	01-Jul-90	
Toluene	developmental	SQE	108-88-3	01-Jan-91	7000[c]
Toluene [Click here for the basis for the removal of female reproductive endpoint effective March 7, 2014]	~~female~~	~~LC~~	~~108-88-3~~	~~07-Aug-09~~	
Toluene diisocyanate	cancer	LC	26471-62-5	01-Oct-89	20
o-Toluidine	cancer	SQE	95-53-4	01-Jan-88	4
o-Toluidine hydrochloride	cancer	SQE	636-21-5	01-Jan-88	5
para-Toluidine Delisted October 29, 1999 [Click here for the basis for delisting]	~~cancer~~	~~AB~~	~~106-49-0~~	~~01-Jan-90~~	
Topiramate	developmental	FR	97240-79-4	27-Nov-15	
Toxaphene (Polychlorinated camphenes)	cancer	SQE	8001-35-2	01-Jan-88	0.6
Toxins derived from *Fusarium moniliforme (Fusarium verticillioides)*	cancer	LC	---	07-Aug-09	
Treosulfan	cancer	LC	299-75-2	27-Feb-87	
Triadimefon	developmental, female, male	AB	43121-43-3	30-Mar-99	
Triamterene	cancer	LC	396-01-0	18-Apr-14	
Triazolam	developmental	FR	28911-01-5	01-Apr-90	
S,S,S-Tributyl phosphorotrithioate (Tribufos, DEF)	cancer	AB	78-48-8	25-Feb-11	
Tributyltin methacrylate	developmental	AB	2155-70-6	01-Dec-99	
Trichlormethine (Trimustine hydrochloride)	cancer	AB	817-09-4	01-Jan-92	
Trichloroacetic acid	cancer	LC	76-03-9	13-Sep-13	
Trichloroethylene	cancer	SQE	79-01-6	01-Apr-88	14 (oral) 50 (inhalation)
Trichloroethylene	developmental, male	AB	79-01-6	31-Jan-14	
2,4,6-Trichlorophenol	cancer	SQE	88-06-2	01-Jan-88	10
1,2,3-Trichloropropane	cancer	AB	96-18-4	01-Oct-92	
Trientine hydrochloride	developmental	FR	38260-01-4	27-Feb-01	
Triforine	developmental	AB	26644-46-2	18-Jun-99	
1,3,5-Triglycidyl-s-triazinetrione Delisted December 13, 2013 [Click here for the basis for delisting]	~~male~~	~~LC~~	~~2451-62-9~~	~~07-Aug-09~~	
Trilostane	developmental	FR	13647-35-3	01-Apr-90	

Chemical	Type of Toxicity	Listing Mechanism	CAS No.	Date Listed	NSRL or MADL (µg/day)[a]
Trimethadione	developmental	FR	127-48-0	01-Jan-91	
2,4,5-Trimethylaniline and its strong acid salts	cancer	SQE	---	24-Oct-97	
Trimethyl phosphate	cancer	AB	512-56-1	01-May-96	24
Trimetrexate glucuronate	developmental	FR	82952-64-5	26-Aug-97	
TRIM® VX	cancer	AB	---	25-May-18	
2,4,6-Trinitrotoluene (TNT)	cancer	SQE	118-96-7	19-Dec-08	8.2
Triphenyltin hydroxide	cancer	AB	76-87-9	01-Jul-92	
Triphenyltin hydroxide	developmental	AB	76-87-9	18-Mar-02	
Tris(aziridinyl)-p-benzoquinone (Triaziquone) Delisted December 8, 2006 [Click here for the basis for delisting]	~~cancer~~	~~LC~~	~~68-76-8~~	~~01-Oct-89~~	
Tris(1-aziridinyl)phosphine sulfide (Thiotepa)	cancer	SQE	52-24-4	01-Jan-88	0.06
Tris(2-chloroethyl) phosphate	cancer	AB	115-96-8	01-Apr-92	
Tris(2,3-dibromopropyl)phosphate	cancer	SQE	126-72-7	01-Jan-88	0.3
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	cancer	SQE	13674-87-8	28-Oct-11	5.4
Trp-P-1 (Tryptophan-P-1)	cancer	SQE	62450-06-0	01-Apr-88	0.03
Trp-P-2 (Tryptophan-P-2)	cancer	SQE	62450-07-1	01-Apr-88	0.2
Trypan blue (commercial grade)	cancer	LC	72-57-1	01-Oct-89	
Unleaded gasoline (wholly vaporized)	cancer	SQE	---	01-Apr-88	
Uracil mustard	cancer	SQE	66-75-1	01-Apr-88	
Uracil mustard	developmental, female, male	FR	66-75-1	01-Jan-92	
Urethane (Ethyl carbamate)	cancer	SQE	51-79-6	01-Jan-88	0.7
Urethane (Ethyl carbamate)	developmental	AB	51-79-6	01-Oct-94	
Urofollitropin	developmental	FR	97048-13-0	01-Apr-90	
Valproate (Valproic acid)	developmental	SQE	99-66-1	01-Jul-87	
Vanadium pentoxide (orthorhombic crystalline form)	cancer	AB	1314-62-1	11-Feb-05	
Vinblastine sulfate	developmental	FR	143-67-9	01-Jul-90	
Vinclozolin [basis for listing changed on November 16, 2006]	cancer	SQE	50471-44-8	20-Aug-99	
Vinclozolin	developmental	AB	50471-44-8	15-May-98	
Vincristine sulfate	developmental	FR	2068-78-2	01-Jul-90	
Vinyl bromide	cancer	SQE	593-60-2	01-Oct-88	
Vinyl chloride	cancer	LC	75-01-4	27-Feb-87	3
4-Vinylcyclohexene	cancer	AB	100-40-3	01-May-96	
4-Vinylcyclohexene [Click here for the basis for the removal of male reproductive endpoint, effective December 20, 2013]	female, ~~male~~	SQE	100-40--3	07-Aug-09	
4-Vinyl-1-cyclohexene diepoxide (Vinyl cyclohexenedioxide)	cancer	AB	106-87-6	01-Jul-90	

Chemical	Type of Toxicity	Listing Mechanism	CAS No.	Date Listed	NSRL or MADL (µg/day)[a]
Vinyl cyclohexene dioxide (4-Vinyl-1-cyclohexene diepoxide) [Click here for the basis for the removal of male reproductive endpoint, effective December 20, 2013]	female, ~~male~~	SQE	106-87-6	01-Aug-08	
Vinyl fluoride	cancer	AB	75-02-5	01-May-97	
Vinylidene chloride (1,1-Dichloroethylene)	cancer	LC	75-35-4	29-Dec-17	
Vinyl trichloride (1,1,2-Trichloroethane)	cancer	AB	79-00-5	01-Oct-90	10
Vismodegib	developmental, female, male	FR	879085-55-9	27-Jan-17	
Warfarin	developmental	SQE	81-81-2	01-Jul-87	
Wood dust	cancer	LC	---	18-Dec-09	
2,6-Xylidine (2,6-Dimethylaniline)	cancer	AB	87-62-7	01-Jan-91	110
Zalcitabine	cancer	LC	7481-89-2	07-Aug-09	
Zidovudine (AZT)	cancer	LC	30516-87-1	18-Dec-09	
Zileuton	cancer, developmental, female	FR	111406-87-2	22-Dec-00	
Zineb Delisted October 29, 1999 [Click here for the basis for delisting]	~~cancer~~	~~AB~~	~~12122-67-7~~	~~01-Jan-90~~	

[a] Where a source or product results in exposures by multiple routes, the total exposure must be

[b] Levels for male children and adolescents were calculated by application of the default bodyweights

[c] Level represents absorbed dose (rounded from 6,525 µg/day). Since 100% of ingested toluene is

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Sources of information for June / July 2018 :

Above links checked for updates, any updates noted below		
REACH SVHC	http://echa.europa.eu/candidate-list-table	REACH SVHC TAB
REACH Substances on the SVHC Registry of Intentions	http://echa.europa.eu/en/registry-of-current-svhc-intentions	REACH SVHC TAB, bottom of sheet.
Komatsu restricted substances, dated 2015	KOMATSU : Enhancing Quality of Life -Environmental Risk Management Reducing the Use of Substances of Environmental Concern and Complying with the EU REACH Regulation-	VOLVO BLACK + other customers TAB, unique substances added to bottom of list.
Volvo Black Issue 10 and Grey Issue 13 lists	Search for standards | Volvo Group	VOLVO BLACK + other customers TAB VOLVO GREY + other customers TAB
GADSL substances	Link to GADSL	VOLVO BLACK + other customers TAB, added to bottom of list.
Scania Black list STD4518 - Issue 19 9/7/15	http://www.scania.com/Images/Chemical_substances_which_must_not_be_used_(Scania_Black_list)_tcm40-451926.pdf Search results for "STD4158" | Scania Group	VOLVO BLACK + other customers TAB, GADSL list added to bottom of list.
Atlas Copco prohibited and declarable lists, conflict mineral list.	http://www.atlascopcogroup.com/en/sustainability/living-by-the-highest-ethical-standards/ethical-supply-chain	Conflict minerals added to Volvo black and other customer TAB
JCB REACH declaration	Updates for June 2018\JCB REACH Declaration Questionnaire V1.2.xlsx	REACH SVHC TAB
P65 List	Updates for June 2018\p65list022518linked.xlsx	New P65 list tab created

Change log	Version	Date	By
1 substances added to REACH SVHC list, 8 substance added to REACH SVHC registry of intentions, 7 substances removed. 15 substances added to Volvo Black list, 3 substances revised on Volvo grey list. 86 substances added to GADSL list.	Version 13	12.7.2017	J. Wilford / T. Blood
7 substances added to REACH SVHC list, 11 substances added to REACH SVHC registry of intentions. Conflict minerals added to Volvo Black list. Added Atlas Copco prohibited and declarable (P & D) list as a new tab	Version 14	14.2.2018	J. Wilford / T. Blood
2 substances added to REACH SVHC registry of intentions. 1 substance added to theVolvo Black list, 1 substance added to the Volvo grey list, 40 substances added to the GADSL list. Added P65 list as a new tab. 28 added to the Atlas Copco P&D list. 10 substances added to the REACH SVHC list	Version 15	10.7.18	T Blood
Volvo table of exemptions added as a separate tab	version 16	10.9.18	T Blood